3GPP TSG-RAN WG2 Meeting #109bis-e R2-200xyzw

**Electronic, 20 April – 30 April 2020**

Source: RAN2 Chairman (Mediatek)

Title: Chairman notes

# Main session email list

This sub-clause lists the email discussions of the main session, Email discussions xyz range: [000]-[099]. Main Session Comprises normally Agenda Items: 1, 2, 3, 5 NR R15 except positioning, 6.0 R16 Organizational, 6.1 IAB, 6.7 IIOT, 6.10 DCCA, 6.19 Other, 6.20 TEI16 except positioning, 6.21 On-demand SI in Conn, 6.22 URLLC, 8 Session Reports, meeting conclusion.

NOTE that for email discussions that treat several documents where each document Author is listed as email discussion rapporteur, a) each author is responsible to promote and argue for his document in the email discussion, b) the first company in the list sends off the first kick-off email.

* [NR Rel-16] 38331 ASN1 \* (Ericsson)

Scope: ASN.1 review email discussions for management of RIL issues and the ASN.1 review file span multiple meetings.

See also ftp.3gpp.org/Email\_Discussions/RAN2/[Misc]/ASN1 review/Rel-16 2020-06\* (where \* may be e.g. Phase1).

Deadlines planning and detailed instructions: Communicated in the email discussion.

* [LTE Rel-16] 36331 ASN1 \* (Samsung) (This discussion doesn’t belong to the main session but can be seen here only for completeness)

Scope: ASN.1 review email discussions for management of RIL issues and the ASN.1 review file span multiple meetings.

See also ftp.3gpp.org/Email\_Discussions/RAN2/[Misc]/ASN1 review/Rel-16 2020-06\* (where \* may be e.g. Phase1).

Deadlines planning and detailed instructions: Communicated in the email discussion

* [AT109bis-e][000] RAN2 109bis-e Organizational Main (Chairman)

Scope: Meeting: Opening and Closing of the meeting. AI 1, 2, 3. General things that do not fit elsewhere. Johan’s session topics: Comments to session notes. Management of email discussions for main session. Coordination issues.

Deadline for comments, for items pre-allocated to be treated by this email discussion: **April 23 0700 UTC**

For other items (ad-hoc) that requires attention, it is assumed that companies will reply asap during office hours, Decisions can be declared at any time respecting the 24h grace time.

* [AT109bis-e][001][NR15] PDCP version change (Ericsson)

Part 1: first rounds of comments, suggest decisions based on initial comments, identify whether there is need for on-line treatment. Deadline: April 23, 0700 UTC

Part 2: if agreeable, expected continuation to agree CRs.

* [AT109bis-e][002][NR15] 37340 corrections (Huawei)

Scope: Treat [R2-2003539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003539.zip), [R2-2003540](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003540.zip), [R2-2003689](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003689.zip)

Part 1: Decision whether to make corrections or not, identify agreeable corrections. Deadline: April 23, 0700 UTC.

Part 2: if agreeable, expected continuation to agree CRs.

* [AT109bis-e][003][NR15] MAC Maintenance (Samsung)

Scope: Treat all tdocs for AI 5.3.1

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][004][NR15] RLC and PDCP Maintenance (Qualcomm)

Scope: Treat all tdocs for AI 5.3.2 and 5.3.3

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs

* [AT109bis-e][005][NR15] L1 Configuration (Huawei, ZTE)

Scope: Treat R2-2002551, R2-2003537, R2-2003538, R2-2002697, R2-2002698

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][006][NR15] L2 Configuration (Samsung, ZTE)

Scope: Treat R2-2002917, R2-2002948, R2-2002949, R2-2002886

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][007][NR15] Security (Qualcomm, Nokia, Huawei)

Scope: Treat R2-2003334, R2-2003335, R2-2003336, R2-2003337, R2-2002985, R2-2002986, R2-2003697, R2-2003698.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][008][NR15] Conn Control Miscellaneous I (Nokia, Ericsson, CATT, Huawei)

Scope: Treat R2-2002681, R2-2002682, R2-2002683, R2-2003071, R2-2003386, R2-2003196, R2-2003197, R2-2002787, R2-2003480, R2-2003483,

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][009][NR15] Conn Control Miscellaneous II (Huawei, Google, China Unicom)

Scope: Treat R2-2003690, R2-2003691, R2-2003692, R2-2003693, R2-2003694, R2-2003695, R2-2003670, R2-2003671, R2-2003778,

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][009][NR15] Conn Control Miscellaneous II (Huawei, Google, China Unicom)

Scope: Treat R2-2003690, R2-2003691, R2-2003692, R2-2003693, R2-2003694, R2-2003695, R2-2003670, R2-2003671, R2-2003778,

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][010][NR15] Measurements (Huawei, Nokia)

Scope: Treat all docs under AI 5.4.1.2

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC (chair comment: expect R2-2002692 and 2693 to be easy agreements as we already have agreed them).

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][011][NR15] System Information & Other (Huawei, Ericsson, Apple)

Scope: Treat all docs under AI 5.4.1.3 and AI 5.4.1.5

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][012][NR15] Inter Node Coord (Ericsson, Google)

Scope: Treat all docs under AI 5.4.1.4

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][013][NR15] UE Cap Codebook parameters (Nokia, Huawei)

Scope: Treat R2-2002552, R2-2002990, R2-2003456, R2-2003816, R2-2003817, R2-2003457, R2-2003458

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs

* [AT109bis-e][014][NR15] UE Cap Miscellaneous I (Qualcomm, ZTE, Mediatek, Huawei)

Scope: Treat R2-2002571, R2-2002572, R2-2002696, R2-2002578, R2-2002679, R2-2002724, R2-2003463, R2-2003464

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][015][NR15] UE Cap Miscellaneous II (Qualcomm, ZTE, Mediatek, Huawei)

Scope: Treat R2-2003306, R2-2003307, R2-2003280, R2-2003281, R2-2003459, R2-2003460, R2-2003461, R2-2003462

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][016][NR15] UE Cap Miscellaneous III (Oppo, ZTE, Nokia, Huawei)

Scope: Treat R2-2002694, R2-2002695, R2-2002637, R2-2002636, R2-2002989, R2-2002678, R2-2003541, R2-2003542

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][017][NR15] Cell Barred (Huawei)

Scope: Treat R2-2003339, R2-2003773

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

* [AT109bis-e][018][IAB] Stage-2 (Qualcomm, Huawei)

Scope: Treat Stage-2: Issues, corrections and CRs (add CRs to x.300 if needed).

Specifically: R2-2003014, R2-2002728, R2-2003178

Part 1: Treat meeting input and comments.

Deadline: April 24 0700 UTC

Part 2: Update of CRs, e.g. to include agreements this meeting

* [AT109bis-e][019][IAB] BAP (Huawei)

Scope: Treat BAP issues corrections and CR.

Part 1: R2-2003011 (and other non-controversial corrections if any), R2-2003561 P1 and P2

Part 2: Potential additions after on-line session, or other forgotten things (TBD)

Deadline: April 23 0700 UTC

Part 3: Update of CR, e.g. to include all agreements this meeting

* [AT109bis-e][020][IAB] User Plane (Samsung)

Scope: Treat UP issues corrections and CR.

Part 1: R2-2002691 (and other non-controversial corrections if any)

Part 2: Potential additions after on-line session (TBD)

Deadline first round: April 23 0700 UTC

Part 3: Update of CR

* [AT109bis-e][021][IAB] RRC (Ericsson)

Scope: Treat RRC issues corrections and CRs (except UE cap, which is treated separately)

Part 1: Non-Controversial parts of [R2-2003297](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003297.zip) (easy agreements), [R2-2003298](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003298.zip), [R2-2003299](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003299.zip) (and other non-controversial corrections if any), first round of discussion on R2-2003020

Part 2: Potential additions after on-line session (TBD)

Deadline first round: April 23 0700 UTC

Part 3: Update of CRs

* [AT109bis-e][022][IAB] RLF Handling (Qualcomm)

Scope: Treat RLF handling to close open issues and make correction if applicable, R2-2003813, and R2-2003726

Expected outcome: Decisions taken in this email discussion shall be taken into account in the other email discussions on CRs: RRC, possibly BAP, Possibly Idle Mode TS.

Deadline: April 24 0700 UTC

* [AT109bis-e][023][IAB] IP address allocation (Samsung)

Scope: Treat IP address allocation to close open issues and make correction if applicable, R2-2002522, R2-2002523 and R2-2002672

Expected outcome: Decisions taken in this email discussion shall be taken into account in the other email discussions on CRs: RRC.

Deadline: April 24 0700 UTC

* [AT109bis-e][024][IAB] 38304 36304 (Huawei)

Scope: Treat 36304 38304: Issues, corrections and CRs

Specifically: R2-2003012, R2-2003013, R2-2003179, R2-2003346

Part 1: Treat meeting input and comments. If more time is needed, e.g. for R2-2003346, gather initial comments and suggest way forward for decisions next meeting.

Deadline: April 24 0700 UTC

Part 2: Update of CRs, e.g. to include agreements this meeting

* [AT109bis-e][025][IIOT] Accurate Reference Timing (Vivo)

Status: Not yet Started, will be started after on-line session April 21

Scope: Treat topics in 6.7.2.1, open issues and corrections, in particular parts of R2-2003809 that are not treated on-line.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

* [AT109bis-e][026][IIOT] Scheduling Enhancements (CMCC)

Status: Not yet Started, will be started after on-line session April 21

Scope: Treat topics in 6.7.2.2, open issues and corrections, in particular parts of R2-2003497 that are not treated on-line.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC. Result to be merged into CRs in other email discussions (e.g. RRC, possibly MAC).

* [AT109bis-e][027][IIOT] RRC (Ericsson)

Status: Started

Scope: Treat topics in 6.7.2.3, include to make CRs.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

Part 2: RRC CRs implementing IIOT decisions from this meeting.

* [AT109bis-e][028][IIOT] Intra-UE prioritization and MAC (Nokia, Samsung)

Scope: Treat topics in 6.7.3.1, based on R2-2003226, started after on-line session April 21 (Nokia) and treat topics in 6.7.3.2 (that do not overlap with 6.7.1), based on R2-2003124, and R2-2002847, started immediately (Samsung).

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC (Nokia, Samsung)

Part 2: Agreeable CR (Samsung)

* [AT109bis-e][029][IIOT] PDCP Duplication and CRs (LG)

Scope: Treat topics in 6.7.4.1, based on R2-2003772, and make CR,

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC, For P1 P2 P7 discussion expected to start after on-line session April 21. Discussion on other proposals/issues can start immediately.

Part 2: Implement this meetings agreements in CR

* [AT109bis-e][030][IIOT] Ethernet Header Compression (Intel)

Scope: Treat topics in 6.7.4.2, based on R2-2003782 and comments.

Part 1: Determine which issues that need resolution, find agreeable proposals, can consider attempt to agree TP. Deadline: April 24 0700 UTC. Result to be merged to PDCP CRs.

* [AT109bis-e][031][IIOT] UE capabilities (Nokia)

Scope: Treat topics in 6.7.6, based on R2-2003793 and comments.

Part 1: Determine which issues that need resolution, find agreeable proposals, can consider TP. Deadline: April 24 0700 UTC.

Part 2: Running CRs (for 38.306, 36.306, 38.822?)

* [AT109bis-e][032][DCCA] RRC (Ericsson)

Scope: Treat topics in 6.10.1, based on R2-2003383, R2-2003789, R2-2003381, R2-2003382 and comments. Discussion on non-controversial issues/proposals that might not need to be treated on-line can start immediately.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC.

Part 2: CRs capturing agreements from this meeting (incl results from other discussions).

* [AT109bis-e][033][DCCA] UE capabilities (Huawei)

Scope: Treat topics in 6.10.2, based on R2-2003707 and comments. Discussion on non-controversial issues/proposals that might not need to be treated on-line can start immediately. Others can start after on-line session.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC (can be extended). Way forward for issues that cannot be resolved at this meeting.

Part 2: Running CRs capturing agreements from this meeting.

* [AT109bis-e][034][DCCA] NR-NR DC (Huawei)

Scope: Treat topics in 6.10.3, Start immediately with R2-2003656 and R2-2003657. Wait for on-line discussion for others.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

* [AT109bis-e][035][DCCA] Early Measurement Reporting (Ericsson)

Scope: Treat topics in 6.10.4, based on R2-2003790 and comments, and other papers if needed). Start non-controversial proposals immediately. Wait for on-line discussion for others. Can also have an immediate round of comments to clarify better the scope of on-line discussions.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

* [AT109bis-e][036][DCCA] Fast Scell Activation (OPPO)

Scope: Treat general and RRC topics in 6.10.5, based on R2-2003770 and comments. Can start discussion on non-controversial proposals immediately, if any. Wait for on-line discussion for others.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

* [AT109bis-e][037][DCCA] MAC (OPPO)

Scope: Treat MAC proposals for DCCA

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

Part 2: Agreeable CR

* [AT109bis-e][038][DCCA] MCG SCell and SCG Configuration with RRC Resume (ZTE)

Scope: Treat topics in 6.10.6, based on R2-2003812 and comments. Can start discussion on non-controversial proposals immediately, if any. Wait for on-line discussion for contriversial proposal.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

* [AT109bis-e][039][DCCA] Fast MCG Link Recovery (Ericsson)

Scope: Treat topics in 6.10.6, based on R2-2003812 and ASN.1 issues and RRC corrections. Can start discussion on non-controversial proposals immediately, if any. Wait for on-line discussion for controversial proposal.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

* [AT109bis-e][040][NR16 Other] FDD band capability signalling for uplink sharing (QC)

Scope: Treat papers above on FDD band capability signalling for uplink sharing

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

* [AT109bis-e][041][NR16 Other] MPE enhancements FR2 (Nokia)

Scope: Treat papers above on MPE enhancements FR2

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

* [AT109bis-e][042][NR16 Other] P bit for Single Entry PHR (OPPO)

Scope: Treat papers above on P bit for Single Entry PHR

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

* [AT109bis-e][043][NR16 Other] P bit for Single Entry P Bandwidth combination set to asymmetric bandwidths (Huawei)

Scope: Treat papers above on Bandwidth combination set to asymmetric bandwidths

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

* [AT109bis-e][044][NR16 Other] Support for ECN in 5GS (Qualcomm)

Scope: Treat papers above on support for ECN in 5GS

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

* [AT109bis-e][045][NR16 Other] UL TX Switching-NR\_FR1 (China Telecom)

Scope: Treat papers above on UL TX Switching-NR\_FR1. If convergence is difficult, this may be treated on-line.

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

* [AT109bis-e][046][NR16 Other] EN-DC FDD+TDD HPUE (Huawei)

Scope: Treat papers above on EN-DC FDD+TDD HPUE.

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

* [AT109bis-e][047][NR16 Other] NR HST (CMCC)

Scope: Treat papers above on NR HST. If convergence is difficult, this may be treated on-line.

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

* [AT109bis-e][048][TEI16] 5G Indicator (Intel)

Scope: Treat papers above on 5G indicator. If convergence is difficult, this may be treated on-line.

Wanted Outcome: Agreed solution in Agreed-in-principle CRs

Deadline: April 28 0700 UTC

* [AT109bis-e][049][TEI16] Need for Gap (Mediatek)

Scope: Treat papers above on Need for Gap. If convergence is difficult, this may be treated on-line. Keep this simple please.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CRs

Deadline: April 28 0700 UTC

* [AT109bis-e][050][TEI16] Overheating (Huawei)

Scope: Treat papers above on Overheating.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

* [AT109bis-e][051][TEI16] EN-DC cell reselection (CMCC)

Scope: Treat papers above on EN-DC cell reselection.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

* [AT109bis-e][052][TEI16] Missing reportAddNeighMeas (Nokia)

Wanted Outcome: Agreed-in-principle CR

Deadline: April 28 0700 UTC

* [AT109bis-e][053][TEI16] LCP Mapping Restrictions (Nokia)

Scope: Treat papers above on LCP Mapping Restrictions.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

* [AT109bis-e][054][TEI16] Secondary DRX (Ericsson)

Scope: Treat papers above on Secondary DRX.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

* [AT109bis-e][055][TEI16] eCall over NR (Huawei)

Scope: Treat papers above on eCall over NR.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

* [AT109bis-e][056][OdSIBconn] On demand SI Open issue (Ericsson)

Scope: Treat papers under 6.21, by treating R2-2003204, R2-2003203 and taking into account comments. SIB9 should not be discussed until IIOT WI has made some conclusions.

Part 1: Agreed Solutions, Deadline: April 24 0700 UTC (can be extended if need)

Part 2: Agreed-in-principle CR(s)

* [AT109bis-e][056][OdSIBconn] On demand SI Open issue (Ericsson)

Scope: Treat papers under 6.21, by treating R2-2003204, R2-2003203 and taking into account comments. SIB9 should not be discussed until IIOT WI has made some conclusions.

Part 1: Agreed Solutions, Deadline: April 24 0700 UTC (can be extended if need)

Part 2: Agreed-in-principle CR(s)

* [AT109bis-e][057][URLLC] RRC L1 Configuration (Huawei)

Scope: Treat papers under 6.22.2,

Wanted outcome: Agreed-in-principle RRC CR,

Deadline: April 29 0700 UTC (rapporteur may introduce intermediate deadline if needed)

* [AT109bis-e][058][URLLC] MAC remaining issues(Huawei)

Scope: Treat papers under 6.22.3, and the MAC impact from R2-2003612

Wanted outcome: Agreed-in-principle MAC CR,

Deadline: April 29 0700 UTC (rapporteur may introduce intermediate deadline if needed)

* [AT109bis-e][059][NR15] LTE changes related to NR (Ericsson, CATT, Google, Nokia)

Scope: Treat all docs under AI 5.4.2

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

# 1 Opening of the meeting

AI1 and 1.x are treated by email, in discussion [000] (pre-allocated).

**This e-Meeting**

- This e-Meeting will follow 3GPP principles for e-Meetings, e.g. an e-Meeting is an ad-hoc meeting that do not count towards a company’s voting rights.

- RAN2 109bis 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.

- There will be some more leeway than usual to re-discuss or post-change agreements made at R2 109bis electronic.

- Descriptions on how this meeting is conducted can be found in tdoc on RAN2 109bis-e Methods and Guidance under agenda item 2.4 below

## 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

Not applicable

## 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.

## 1.4 Statement Regarding Engagement with Companies Added to the U.S. Export Administration Regulations (EAR) Entity List in 3GPP Activities

|  |
| --- |
| *Updated 2019-10-10*  **1. Public Information is Not Subject to EAR**  3GPP is an open platform where all contributions (including technology protected or not by patent) made by the different Individual Members under the membership of each respective Organizational Partner are publicly available. Indeed, contributions by all and any Individual Members are uploaded to a public file server when received and then the documents are effectively in the public domain.  In addition, since membership of email distribution lists is open to all, documents and emails distributed by that means are considered to be publicly available.  As a result, information contained in 3GPP contributions, documents, and emails distributed at 3GPP meetings or by 3GPP email distribution lists, because it is made available to the public without restrictions upon its further dissemination, is not subject to the export restrictions of the EAR.  Meeting minutes are maintained for 3GPP meetings. Such meeting minutes for 3GPP meetings are made available to the public without restrictions upon its further dissemination. As a result, information, including information conveyed orally, contained in 3GPP meetings is not subject to the export restriction of the EAR; this would include information conveyed during side meetings that may occur during the main meetings, if these meetings are open to any participants and the results of all said meetings are publicly available without restrictions upon their further dissemination.  **2. Non-Public Information**  Non-public information refers to the information not contained or not intended to be contained in 3GPP contributions, documents or emails. Such non-public information may be disclosed during informal meetings, exchanges, discussions or any form of other communication outside the 3GPP meetings and email distribution lists, and may be subject to the EAR.  **3. Other Information**  Certain encryption software controlled under the International Traffic in Arms Regulations (ITAR), even if publicly available, may still be subject to US export controls other than the EAR.  **4. Conduct of Meetings**  The situation should be considered as "business as usual" during all the meetings called by 3GPP.  **5. Responsibility of Individual Members**  It should be remembered that contributions, meetings, exchanges, discussions or any form of other communication in or outside the 3GPP meetings are of the accountability, integrity and the responsibility of each Individual Member. In addition, Individual Members remain responsible for ensuring their compliance with all applicable export control regulations, including but not limited to EAR.  Individual Members with questions regarding the impact of laws and regulations on their participation in 3GPP should contact their companies’ legal counsels. |

# 2 General

AI2 and 2.x are treated by email, in discussion [000]. (pre-allocated)

**Instructions - General**

Priority: In such cases that prioritization is needed, essential maintenance corrections has highest priority, followed by R16 Closing of WI Open Issues, followed by R16 Corrections / Stage-3 review solutions.

Incoming LS’es are handled. As usual it is up to session chair which ones to treat (and related tdocs).

R15 and earlier: For R15 and earlier releases, documents on important and urgent issues shall be submitted and treated. No text enhancements without behavioural or functional change.

R16 Open Issues, Stage-3 review: R16 Input to R2#109bis-e to focus on issues: WI open issues and Stage-3 review issues. It is important that you work with WI rapporteurs and WI CR rapporteurs on Open issues.

R16 Email Discussions to R2#109bis-e: No tdocs except email discussions will be treated on topics that are treated in email discussion. You need to participate in email discussions and contribute your views there. An unresolved issue that seems to require discussion and separate treatment can be assigned to a company, and this company can then submit one tdoc on this issue that do not count against tdoc limitation. Other companies are encouraged to cooperate with the assigned company rather than submitting own input. This is applicable both to e.g. ASN.1 review category 2 or 3 issues and/or issues relating to other specifications.

R16 Small Corrections, non-RRC: For small non-controversial corrections, please if possible contact the CR Rapporteur directly to include the correction. The CR Rapporteur can list the contributing company name within brackets on the explanatory parts of the CR cover sheet, for proper credit (however for changes commented by multiple companies the rapporteur may choose to not do this). If required due to US EAR, such communication can use the official R2 email discussion [Post109e#53]. For RRC Small Corrections, please for RRC rapporteurs ASN.1 category 0/1 instructions.

R16 CRs: No company specific CRs. For all R16 WIs, “big” CRs similar to running CRs per WI and TS are maintained by current/previous running CR rapporteurs. Companies may input TPs or draft CRs, to be merged into the big CRs if agreed. R16 CRs do not need an impact analysis.

R16 TEI: Low priority for new proposals. Most likely no new proposal will be treated.

R16 UE capabilities: On L1 and Radio features, RAN2 waits for feature list input from RAN1 and RAN4. Can anyway evolve running CRs to the extent possible/reasonable, e.g. on R2 feature scope.

R17: Will not be treated

**Instructions - Summary of tdocs**

In particular for R16, for AIs where tdoc submission is expected, the Intention is to treat summaries that summarize contents of submitted tdocs rather than submitted tdocs. Tdocs that are covered by a summary are to be noted if the summary is treated.

Where indicated in the agenda or later in chair notes, the tdocs submitted to a sub-agenda item or on a specific sub-topic, are summarized in a summary tdoc by an appointed rapporteur. It is the task of the rapporteur to reflect submitted proposals in a neutral way, group, merge and structure to facilitate easy treatment. There may be email discussion checking for each summary that may start as soon as there is a first summary draft, e.g. before submission. When such email discussion takes place during the tdoc review week it is considered a) the purpose is mainly to check correctness and get immediate comments/suggestions b) ambition level is best effort.

|  |
| --- |
| **Guidance on RAN2 RRC Activities before, during and after April meeting**  NR and EUTRA follows the same principal planning for RRC CRs and ASN.1 review. R2-2001709 contains an endorsed high level overview plan. Some more details are provided here. Even further details will be provided by the RRC TS Rapporteurs.   1. **General principles** 2. Until April meeting, we will run both ASN.1 Review and WI-specific email discussions in parallel. 3. The ASN.1 Review will be kicked-off as soon as Rel-16 spec is available. Detailed guidance for the ASN.1 review process will be provided by the RRC specification Rapporteurs 4. **UE capabilities** are discussed as covered by specific WI discussions. It is not planned to include UE capabilities for ASN.1 review for April. RIL issues can still be considered best effort for the WIs that included some UE capability contents in the March specifications. 5. **After April meeting**, RAN2 expects to have the following RRC CRs:    1. The ASN.1 Review file, with RILs (as usual after ASN.1 review). This is a “mega-CR”, covering the complete Rel-16 RRC specification.    2. One RRC CR per WI (assumption), including contents for closing WI open issues, and Category 3 issues, which are WI specific (see below) . RIL items/comments are added in the ASN.1 Review file to refer to the tdoc number of the WI specific CRs. The intention is that RIL issues of the ASN.1 review file shall indicate all RRC changes, also the ones done in WI-specific CRs. 6. **Issue classification**   For reference, below there is an Issue Classification (similar to what RAN2 has used earlier in ASN.1 reviews), but now with **guidance** on during which April meeting sessions to handle each issue during RAN2 April 2020 meeting:   1. **Trivial** e.g. editorials, commas, colon, misspelling, missing/ double spaces, italics etc. 2. **Minor** e.g. quite straightforward changes e.g. correction/ addition of specification references or sub-clauses 3. **ASN.1 session** **issue** e.g. ASN.1 issue e.g. related to need codes, extensibility, alternative encoding, ASN.1/ guidelines, general protocol (consistency) issue or issue affecting more than one WI 4. **WI session issue i**.e. an issue that is not purely ASN.1 but has some impact on functionality but only affecting a single WI.   Issues of class 0 and 1 are provided to ASN.1 review moderator, who captures changes within ASN.1 review file with best effort i.e. not highest priority in accordance with guidance provided at ASN.1 review kick-off. This is applicable also to issues found in WI-specific discussions.   1. **WI specific email discussions before April meeting** 2. Each WI RRC Rapporteur is expected to progress known RRC open issues (FFSs, Editor’s Notes etc) in WI-specific RAN2 email discussions until RAN2 April meeting. 3. The result is submitted in WI-specific RRC draft CRs to RAN2 April meeting. 4. Main focus is to resolve the already known open issues, but if discovered, companies may also raise new major functional issues. 5. The open issues managed in these discussions are managed by WI RRC rapporteur. No ASN.1 review RIL handling are used in these email discussions. Note that it is still important to take note of such open issues in the ASN.1 review work to avoid double work. Open issues lists should be made available. Note that Class 0, 1, and 2 issues, if discussed, shall be forwarded to RRC TS rapporteurs / ASN.1 session, for capture in the ASN.1 review file. 6. If a Class 3 issue cannot be resolved during the email discussion, it may be left open or one company can be assigned to address the issue in the meeting by tdoc (without counting towards tdoc limitation) 7. **ASN.1 Review until April meeting** 8. ASN.1 review on the full RRC March specifications will be kicked off when RRC specifications are published. 9. The details on the ASN1 Review process (entering RILs, formats, macros, reporting Class 0/Class 1 issues etc) will be provided before the ASN.1 Review is kicked-off. 10. Companies are asked to provide Class 2 issues and Class 3 issues discussed in the ASN.1 review email discussion via RILs, in the same way as usual.     1. For WIs without RRC email discussion, class 3 issues are raised during ASN.1 review e-mail (for WIs with RRC email discussion, such issues are preferably handled within concerned e-mail as open issue without RIL) 11. If an ASN.1 review issue Class 2 or 3 is not resolved during the email discussion, it may be left open or one company can be assigned to address the issue in the meeting by tdoc (without counting towards tdoc limitation) 12. **Sessions in RAN2 April meeting** 13. **WI-specific sessions**     1. WI-specific RRC draft CRs and Class 3 issues will be handled at WI-specific sessions.     2. As a result of the session, the **session minutes** indicates per RRC issue/change whether        1. the RRC change is to be inserted into the ASN.1 Review file (following the process for inserting into the ASN.1 review file, i.e. with a RIL comment) or        2. the RRC change remains in the (WI-specific) CR A RIL item/comment is added to the ASN.1 Review, to refer to the tdoc number of the (WI-specific) CR. Note that RIL issues from WI specific discussions that are decided in WI specific session may be added to the ASN.1 review file after agreement.     3. WI RRC Rapporteur is responsible for and coordinates the insertion of RILs related to WI specific CR into the ASN.1 Review file with the ASN.1 Review Moderator. 14. **ASN.1 Review sessions (separate for NR and LTE)**     1. The ASN.1 Review sessions (for NR and LTE) will handle Class 2 issues (according to ASN.1 review process). 15. **Actions expected by companies before April meeting** 16. Contribute WI specific open issues to the WI specific email discussions. Note that these emails aim to handle class 3 type of issues. 17. Contribute to the ASN.1 Review (focus should be on issues **essential to freeze the ASN.1** i.e. ensure that signaling is complete, extensible, releasable, and that associated handling seems clear and complete.)     1. Enter RIL issues for Class 2 issues and, for WIs without RRC e-mail discussion, Class 3 issues.     2. For class 3 issues specific to single WI, avoid double work (e.g. coordinate with WI-specific RRC Rapporteur). (WI/functional open issues and their resolutions are only referred to in ASN.1 review file after agreement.) 18. Report Class 0 and Class 1 issues, to be included in ASN.1 Review File (ASN.1 Review Moderator is responsible). The actual update of the ASN.1 Review file might be postponed until after April RAN2 meeting (not critical activity) |

Note: Time Budget Comments remain in this document only for reference. They are not applicable for R2 109bis-e.

## 2.1 Approval of the agenda

R2-2002500 Agenda for RAN2#109bis-e Chairman agenda Late

## 2.2 Approval of the report of the previous meeting

R2-2002501 RAN2#109-e Meeting Report MCC report Late

## 2.3 Reporting from other meetings

Report from RP 87e

1. 3GPP release timeline on RP-200493 was endorsed.
2. The following R16 WIs declared 100% for Core part: eURLLC, SRVCC 5G to 3G, LTE DL MIMO, LTE based 5G terrestrial Broadcast, LTE NAVIC. In addition RACS has no remaining open issues in R2.
3. Mandatory support for full rate integrity protection was discussed. No Conclusions. This issue will be revisited in the June RP. Until then, this topic do not need to be treated in in WGs.
4. DC CA fallbacks for FR2 was discussed briefly. Progress expected in R2 in the next quarter.
5. Feedback from FEB e-Meetings is collected in RP-200490 (for information).
6. UE capabilities was discussed and is summarized in RP-200502 (for information).
7. IAB: Task to work on which mandatory R15 features can be optional for IAB, RP-200501

## 2.4 Others

[R2-2003824](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003824.zip) RAN2 109bis-e e-meeting Methods and Guidance Chairman discussion

# 3 Incoming liaisons

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

AI3 is treated by email, in discussion [000]. (pre-allocated)

R16 LTE and NR Physical Layer Parameters

[R2-2002519](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002519.zip) LS on updated Rel-16 LTE and NR parameter lists (R1-2001479; contact: Qualcomm) RAN1 LS in Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_terr\_bcast-Core, NR\_2step\_RACH-Core, NR\_unlic-Core, NR\_IAB-Core, 5G\_V2X\_NRSL-Core, NR\_L1enh\_URLLC-Core, NR\_IIOT-Core, NR\_eMIMO-Core, NR\_UE\_pow\_sav-Core, NR\_pos-Core, NR\_Mob\_enh-Core, LTE\_NR\_DC\_CA\_enh-Core To:RAN2, RAN3

Proposed to be noted

[R2-2002547](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002547.zip) LS/o on synchronization of Y.DNI-fr “Framework and Requirements of Decentralized Trustworthy Network Infrastructure” in Q2/13 (SG13-LS157; contact: China Telecom, Huawei) ITU-T SG13 LS in To:IEEE, ETSI, IETF, 3GPP

Proposed to be noted

R17 Not Treated

[R2-2002536](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002536.zip) Reply LS on UAV positioning (S1-201089; contact: InterDigital) SA1 LS in To:SA6 Cc:SA2, RAN1, RAN2

[R2-2002539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002539.zip) LS on 5GC assisted cell selection for accessing network slice (S2-2001728; contact: ZTE) SA2 LS in Rel-17 FS\_eNS\_Ph2 To:SA1, RAN2, RAN3

[R2-2002546](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002546.zip) LS on Requirements on positioning for UAS (S6-200269; contact: InterDigital) SA6 LS in Rel-17 FS\_UASAPP To:SA1 Cc:SA2, RAN2

[R2-2002548](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002548.zip) Reply LS to extend the scope of eV2X (SP-191379; contact: Telecom Italia) SA LS in Rel-17 FS\_eV2XARC\_Ph2 To:5GAA WG4 Cc:SA2, SA1, RAN, RAN2

[R2-2002922](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002922.zip) [DRAFT] Response LS on the “LS OUT on Location of UEs and associated key issues” THALES LS out To:cyril.michel@thalesaleniaspace.com Cc:RAN3, SA3-LI

[R2-2002542](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002542.zip) Response LS on the “LS OUT on Location of UEs and associated key issues” (S3i200056; contact: Rogers) SA3-LI LS in Rel-17 FS\_5GSAT\_ARCH To:SA2, RAN2, RAN3

# 4 EUTRA corrections Rel-15 and earlier

See Appendix A for reference to Work items, work item codes and WIDs.

No documents should be submitted to 4. Please submit to 4.x

NOTE For R2 109e for R15 and earlier releases, only documents on important and urgent issues shall be submitted and treated. No text enhancements without behavioural or functional change.

## 4.1 NB-IoT corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session. Common NB-IoT/eMTC parts treated jointly with 4.2.

This agenda item may not be treated during the e-meeting. No web conference is planned for this agenda item

[R2-2003245](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003245.zip) Optimisation on trigger for dedicated SR with HARQ-ACK ZTE Corporation, Sanechips, MediaTek Inc. discussion Rel-15 LTE\_eMTC4-Core

[R2-2003246](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003246.zip) Clarification on RLC UM SN size for NB-IoT Huawei, HiSilicon CR Rel-15 36.322 15.3.0 0145 - F NB\_IOTenh2-Core

[R2-2003254](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003254.zip) Optimisation on trigger for dedicated SR with HARQ-ACK ZTE Corporation, Sanechips, MediaTek Inc. CR Rel-15 36.321 15.8.0 1469 - F LTE\_eMTC4-Core

[R2-2003256](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003256.zip) Optimisation on trigger for dedicated SR with HARQ-ACK ZTE Corporation, Sanechips, MediaTek Inc. CR Rel-15 36.331 15.9.0 4254 - F LTE\_eMTC4-Core

[R2-2003619](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003619.zip) Discussion on dedicated frequency search after connection rejection MediaTek Inc. discussion Rel-15 NB\_IOTenh2-Core

[R2-2003621](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003621.zip) Cell selection on the dedicated frequency after RRC connection rejection for NB-IoT in 36.304 MediaTek Inc. CR Rel-15 36.304 15.5.0 0787 - F NB\_IOTenh2-Core

[R2-2003622](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003622.zip) Cell selection on the dedicated frequency after RRC connection rejection for NB-IoT in 36.331 MediaTek Inc. CR Rel-15 36.331 15.9.0 4280 - F NB\_IOTenh2-Core

## 4.2 eMTC corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session. Common NB-IoT/eMTC parts treated jointly with 4.1.

This agenda item may not be treated during the e-meeting. No web conference is planned for this agenda item

[R2-2003189](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003189.zip) Correction on reception type combination for eMTC ZTE Corporation, Sanechips, Sequans Communications CR Rel-13 36.302 13.7.0 1204 - F LTE\_MTCe2\_L1-Core

[R2-2003190](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003190.zip) Correction on reception type combination for eMTC ZTE Corporation, Sanechips, Sequans Communications CR Rel-14 36.302 14.5.0 1205 - A LTE\_MTCe2\_L1-Core

[R2-2003222](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003222.zip) Correction on reception type combination for eMTC ZTE Corporation, Sanechips, Sequans Communications CR Rel-15 36.302 15.2.0 1206 - A LTE\_MTCe2\_L1-Core

[R2-2003228](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003228.zip) Correction on reception type combination for eMTC ZTE Corporation, Sanechips, Sequans Communications CR Rel-16 36.302 16.0.0 1207 - A LTE\_MTCe2\_L1-Core

[R2-2003342](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003342.zip) Adding Reception Type for uplink HARQ ACK feedback for Rel-15 eMTC Huawei, HiSilicon CR Rel-15 36.302 15.2.0 1208 - F LTE\_eMTC4-Core

## 4.3 V2X and Sidelink corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session.

[R2-2003641](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003641.zip) Correction on Uu and PC5 prioritization ASUSTeK CR Rel-15 36.321 15.8.0 1470 - A LTE\_eV2X-Core

[R2-2003642](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003642.zip) Correction on Uu and PC5 prioritization ASUSTeK CR Rel-14 36.321 14.12.0 1471 - F LTE\_V2X-Core

## 4.4 Positioning corrections Rel-15 and earlier

Documents in this agenda item will be handled by email. No web conference is planned for this agenda item.

## 4.5 Other LTE corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session.

A web conference may be used for handling some of the discussions in this WI, and a summary document may be provided by the session chair.

[R2-2002619](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2002619.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002619.zip) Correction on SRB duplication OPPO CR Rel-15 36.323 15.5.0 0280 - F LTE\_HRLLC

[R2-2002620](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002620.zip) Correction on SRB duplication OPPO CR Rel-16 36.323 16.0.0 0281 - A LTE\_HRLLC

[R2-2003147](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003147.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell CR Rel-12 36.331 12.18.0 4247 - F LTE\_CA-Core, TEI12

[R2-2003148](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003148.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell CR Rel-13 36.331 13.15.0 4248 - A LTE\_CA-Core, TEI12

[R2-2003149](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003149.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell CR Rel-14 36.331 14.14.0 4249 - A LTE\_CA-Core, TEI12

[R2-2003150](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003150.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.9.0 4250 - A LTE\_CA-Core, TEI12

[R2-2003151](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003151.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.0.0 4251 - A LTE\_CA-Core, TEI12

[R2-2003152](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003152.zip) Clarification on codebook-HARQ-ACK-r13 capability for CA with more than 5CCs Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-13 36.306 13.12.0 1747 - F LTE\_CA\_enh\_b5C-Core

[R2-2003153](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003153.zip) Clarification on codebook-HARQ-ACK-r13 capability for CA with more than 5CCs Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-14 36.306 14.11.0 1748 - A LTE\_CA\_enh\_b5C-Core

[R2-2003154](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003154.zip) Clarification on codebook-HARQ-ACK-r13 capability for CA with more than 5CCs Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-15 36.306 15.8.0 1749 - A LTE\_CA\_enh\_b5C-Core

[R2-2003155](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003155.zip) Clarification on codebook-HARQ-ACK-r13 capability for CA with more than 5CCs Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-16 36.306 16.0.0 1750 - A LTE\_CA\_enh\_b5C-Core

[R2-2003232](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003232.zip) Minor changes collected by Rapporteur Samsung Telecommunications draftCR Rel-14 36.331 14.14.0 F MBMS\_LTE\_enh2-Core

[R2-2003233](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003233.zip) Minor changes collected by Rapporteur Samsung Telecommunications draftCR Rel-15 36.331 15.9.0 F MBMS\_LTE\_enh2-Core, TEI15

[R2-2003451](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003451.zip) Correction on autonomous measurment gap release Huawei, HiSilicon CR Rel-14 36.331 14.14.0 4267 - F LTE\_meas\_gap\_enh

[R2-2003452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003452.zip) Correction on autonomous measurment gap release Huawei, HiSilicon CR Rel-15 36.331 15.9.0 4268 - A LTE\_meas\_gap\_enh

[R2-2003453](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003453.zip) Correction on autonomous measurment gap release Huawei, HiSilicon CR Rel-16 36.331 16.0.0 4269 - A LTE\_meas\_gap\_enh

[R2-2003548](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003548.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-10 36.331 10.22.0 4273 - F LTE\_CA-Core

[R2-2003549](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003549.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-11 36.331 11.19.0 4274 - A LTE\_CA-Core

[R2-2003550](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003550.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-12 36.331 12.18.0 4275 - F LTE\_CA-Core

[R2-2003551](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003551.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-13 36.331 13.15.0 4276 - A LTE\_CA-Core

[R2-2003552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003552.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-14 36.331 14.14.0 4277 - A LTE\_CA-Core

[R2-2003553](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003553.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-15 36.331 15.9.0 4278 - A LTE\_CA-Core

[R2-2003554](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003554.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-16 36.331 16.0.0 4279 - A LTE\_CA-Core

**Withdrawn**

R2-2003390 Minor changes collected by Rapporteur Samsung Telecommunications draftCR Rel-14 36.331 14.14.0 F MBMS\_LTE\_enh2-Core Late Withdrawn

R2-2003391 Minor changes collected by Rapporteur Samsung Telecommunications draftCR Rel-15 36.331 15.9.0 F MBMS\_LTE\_enh2-Core, TEI15 Late Withdrawn

# 5 WI: New Radio (NR) Access Technology

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 19: WID: RP-191971)

NOTE For R2 109bis-e for R15 and earlier releases, only documents on important and urgent issues shall be submitted and treated. No text enhancements without behavioural or functional change.

## 5.1 Organisational

Incoming LSs, etc.

[R2-2002525](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002525.zip) Reply LS on Tx DC location (R4-1915361; contact: Huawei) RAN4 LS in Rel-15 NR\_newRAT-Core To:RAN1, RAN2

Treated in email discussion [000] (pre-allocated)

## 5.2 Stage 2

### 5.2.1 Stage 2 corrections for TS 38.300

You should discuss your stage 2 CRs with the specification rapporteurs before submission.

### 5.2.2 Stage 2 corrections for TS 37.340

You should discuss your stage 2 CRs with the specification rapporteurs before submission.

**PDCP version change**

* [AT109bis-e][001][NR15] PDCP version change (Ericsson)

Part 1: first rounds of comments, suggest decisions based on initial comments, identify whether there is need for on-line treatment. Deadline: April 23, 0700 UTC

Part 2: if agreeable, expected continuation to agree CRs.

5 tdocs moved from 5.4.2:

[R2-2003399](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003399.zip) PDCP version change with or without handover Ericsson, Intel Corporation discussion Rel-15 NR\_newRAT-Core

[R2-2003400](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003400.zip) Allowing PDCP version change without handover Ericsson, Intel Corporation CR Rel-15 36.306 15.8.0 1753 - F NR\_newRAT-Core

[R2-2003401](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003401.zip) Allowing PDCP version change without handover Ericsson, Intel Corporation CR Rel-15 36.331 15.9.0 4261 - F NR\_newRAT-Core

[R2-2003402](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003402.zip) Allowing PDCP version change without handover Ericsson, Intel Corporation CR Rel-16 36.331 16.0.0 4262 - A NR\_newRAT-Core

[R2-2003405](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003405.zip) Allowing PDCP version change without handover Ericsson, Intel Corporation CR Rel-16 36.306 16.0.0 1754 - A NR\_newRAT-Core

Move from 5.4.1.1:

[R2-2002987](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002987.zip) TS 36.331 Clarifying the options for PDCP version change Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.9.0 4242 - F NR\_newRAT-Core

[R2-2002988](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002988.zip) TS 37.340 Clarifying the options for PDCP version change Nokia, Nokia Shanghai Bell CR Rel-15 37.340 15.8.0 0190 - F NR\_newRAT-Core

[R2-2003685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003685.zip) Clarification on PDCP version change Huawei, HiSilicon CR Rel-15 37.340 15.8.0 0166 2 F NR\_newRAT-Core R2-2001175

[R2-2003686](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003686.zip) Clarification on PDCP version change Huawei, HiSilicon CR Rel-16 37.340 16.1.0 0198 - A NR\_newRAT-Core

[R2-2003687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003687.zip) Clarification on PDCP version change Huawei, HiSilicon CR Rel-15 36.331 15.9.0 4152 2 F NR\_newRAT-Core R2-2001176

[R2-2003688](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003688.zip) Clarification on PDCP version change Huawei, HiSilicon CR Rel-16 36.331 16.0.0 4282 - A NR\_newRAT-Core

**SPS and CG in DC**

[R2-2003539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003539.zip) Correction on MAC description in TS 37.340 Huawei, HiSilicon CR Rel-15 37.340 15.8.0 0196 - F NR\_newRAT-Core

[R2-2003540](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003540.zip) Correction on MAC description in TS 37.340 Huawei, HiSilicon CR Rel-16 37.340 16.1.0 0197 - A NR\_newRAT-Core

**SCG configuration**

[R2-2003689](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003689.zip) Clarification on the SCG configuration handing in RRC\_INACTIVE Huawei, HiSilicon CR Rel-15 37.340 15.8.0 0199 - F NR\_newRAT-Core

* [AT109bis-e][002][NR15] 37340 corrections (Huawei)

Scope: Treat [R2-2003539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003539.zip), [R2-2003540](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003540.zip), [R2-2003689](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003689.zip)

Part 1: Decision whether to make corrections or not, identify agreeable corrections. Deadline: April 23, 0700 UTC.

Part 2: if agreeable, expected continuation to agree CRs.

### 5.2.3 Positioning

Corrections to both the stage 2 and stage 3 aspects related to positioning. Stage 2 CRs should be discussed with the specification rapporteur before submission.

Documents in this agenda item will be handled in a break out session.

[R2-2002913](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002913.zip) Clarification on UE Positioning Architecture in 38.305 for Rel-15 CATT draftCR Rel-15 38.305 15.5.0 B NR\_newRAT-Core

[R2-2003479](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003479.zip) Correction to periodic reporting Huawei, HiSilicon CR Rel-15 37.355 15.0.0 0254 - F NR\_newRAT-Core

[R2-2003482](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003482.zip) Correction to periodic reporting Huawei, HiSilicon CR Rel-16 37.355 16.0.0 0255 - A NR\_newRAT-Core

## 5.3 Stage 3 user plane

Essential functional corrections.

### 5.3.1 MAC

* [AT109bis-e][003][NR15] MAC Maintenance (Samsung)

Scope: Treat all tdocs for AI 5.3.1

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

**UL Skipping**

[R2-2002515](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002515.zip) Reply LS on UL skipping (R1-2001376; contact: vivo) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2

Proposed to be noted

[R2-2003610](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003610.zip) Further discussion on UL skipping for UCI multiplexing Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

[R2-2003594](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003594.zip) CR to 38.321 on UCI transmission in the case the overlapping PUSCH transmission is skipped ZTE, Sanechips CR Rel-15 38.321 15.8.0 0731 - F NR\_newRAT-Core

[R2-2002780](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002780.zip) Discussion on the UL skipping vivo discussion

**BFR**

[R2-2002612](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002612.zip) Clarification on the Random Access parameters for BFR Samsung discussion Rel-15 NR\_newRAT-Core

[R2-2003481](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003481.zip) Correction on the RACH parameters for BFR Huawei, HiSilicon CR Rel-15 38.321 15.8.0 0728 - F NR\_newRAT-Core

[R2-2003484](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003484.zip) Correction on the RACH parameters for BFR Huawei, HiSilicon CR Rel-16 38.321 16.0.0 0729 - A NR\_newRAT-Core

**Others**

[R2-2003643](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003643.zip) UL grant overridden between configured grant and RAR grant ASUSTeK discussion Rel-15 NR\_newRAT-Core

### 5.3.2 RLC

* [AT109bis-e][004][NR15] RLC and PDCP Maintenance (Qualcomm)

Scope: Treat all tdocs for AI 5.3.2 and 5.3.3

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2002762](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002762.zip) RLC status report truncation Qualcomm Incorporated CR Rel-15 38.322 15.5.0 0032 - F NR\_newRAT-Core

=> Revised n [R2-2003766](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003766.zip)

[R2-2003766](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003766.zip) RLC status report truncation Qualcomm Incorporated CR Rel-15 38.322 15.5.0 0032 1 F NR\_newRAT-Core

[R2-2002767](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002767.zip) RLC status report truncation Qualcomm Incorporated CR Rel-16 38.322 16.0.0 0033 - A NR\_newRAT-Core

=> Revised n [R2-2003767](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003767.zip)

[R2-2003767](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003767.zip) RLC status report truncation Qualcomm Incorporated CR Rel-16 38.322 16.0.0 0033 1 A NR\_newRAT-Core

[R2-2002823](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002823.zip) Ordering of PDCP SN and RLC SN Qualcomm Incorporated CR Rel-15 38.322 15.5.0 0034 - F NR\_newRAT-Core

### 5.3.3 PDCP

[R2-2002824](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002824.zip) Ordering of PDCP SN and RLC SN Qualcomm Incorporated CR Rel-15 38.323 15.6.0 0044 - F NR\_newRAT-Core

[R2-2002825](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002825.zip) PDCP Recovery conditions Qualcomm Incorporated CR Rel-15 38.331 15.9.0 1527 - F NR\_newRAT-Core

### 5.3.4 SDAP

## 5.4 Stage 3 control plane

Essential functional corrections.

### 5.4.1 NR RRC

Including all architecures

#### 5.4.1.1 Connection control

Including L1 Parameters, L2 Parameters, Connection establishment and release, Connection reconfiguration (also reconfig with sync, Handover), Connection resume and release with RRC\_INACTIVE state, Security procedures, re-establishment, RRC processing delay requirements etc.

LS in

[R2-2002540](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002540.zip) Reply LS on Handling of UE radio network capabilities in 4G and 5G (S3-194488; contact: Intel) SA3 LS in Rel-15 TEI15, 5GS\_Ph1-SEC To:RAN2 Cc:SA2, RAN3

Treated in email discussion [000] (pre-allocated). Proposed Noted

**L1 Configuration**

* [AT109bis-e][005][NR15] L1 Configuration (Huawei, ZTE)

Scope: Treat R2-2002551, R2-2003537, R2-2003538, R2-2002697, R2-2002698

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2002508](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002508.zip) Reply LS for clarification of PUCCH configuration (R1-2001306; contact: Huawei) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2

=> Revised in [R2-2002551](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002551.zip)

[R2-2002551](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002551.zip) Reply LS for clarification of PUCCH configuration (R1-2001306; contact: Huawei) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2

[R2-2003537](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003537.zip) Correction on PUCCH configuration Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1567 - F NR\_newRAT-Core

[R2-2003538](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003538.zip) Correction on PUCCH configuration Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1568 - A NR\_newRAT-Core

[R2-2002697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002697.zip) Clarification on SRS-CarrierSwitching structure ZTE Corporation, Sanechips, Qualcomm Incorporated discussion Rel-15 NR\_newRAT-Core

[R2-2002698](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002698.zip) CR on SRS-CarrierSwitching ZTE Corporation, Sanechips, Qualcomm Incorporated CR Rel-15 38.331 15.9.0 1518 - F NR\_newRAT-Core

**L2 Configuration**

* [AT109bis-e][006][NR15] L2 Configuration (Samsung, ZTE)

Scope: Treat R2-2002917, R2-2002948, R2-2002949, R2-2002886

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2002917](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002917.zip) Clarification on the presence of ssb-perRACH-Occasion for the CSI-RS based CFRA ZTE Corporation, Sanechips, Ericsson (Rapporteur) CR Rel-15 38.331 15.9.0 1449 1 F NR\_newRAT-Core R2-2000664

[R2-2002948](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002948.zip) Change of pdcp-Duplication at RRC Reconfiguration Samsung discussion Rel-15 NR\_newRAT-Core

[R2-2002949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002949.zip) Clarification on pdcp-Duplication at RRC Reconfiguration Samsung CR Rel-15 38.331 15.9.0 1534 - F NR\_newRAT-Core

[R2-2002886](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002886.zip) Corrections on the allowedSCS-List and AllowedServingCells in LogicalChannelConfig Samsung CR Rel-15 38.331 15.9.0 1532 - F NR\_newRAT-Core

**Security**

* [AT109bis-e][007][NR15] Security (Qualcomm, Nokia, Huawei)

Scope: Treat R2-2003334, R2-2003335, R2-2003336, R2-2003337, R2-2002985, R2-2002986, R2-2003697, R2-2003698.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2003334](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003334.zip) Clarification on avoiding keystream repeat due to COUNT reuse Qualcomm Incorporated, Ericsson, Vodafone, NTT DOCOMO CR Rel-15 38.331 15.9.0 1555 - F NR\_newRAT-Core

[R2-2003335](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003335.zip) Clarification on avoiding keystream repeat due to COUNT reuse Qualcomm Incorporated, Ericsson, Vodafone, NTT DOCOMO CR Rel-16 38.331 16.0.0 1556 - A NR\_newRAT-Core

[R2-2003336](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003336.zip) Clarification on avoiding keystream repeat due to COUNT reuse Qualcomm Incorporated, Ericsson, Vodafone, NTT DOCOMO CR Rel-15 36.331 15.9.0 4257 - F TEI15

[R2-2003337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003337.zip) Clarification on avoiding keystream repeat due to COUNT reuse Qualcomm Incorporated, Ericsson, Vodafone, NTT DOCOMO CR Rel-16 36.331 16.0.0 4258 - A TEI15

Moved from 5.4.2

[R2-2002985](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002985.zip) Avoiding security risk for RLC AM bearers during termination point change Nokia, Nokia Shanghai Bell, Deutsche Telekom CR Rel-15 38.331 15.9.0 1539 - F NR\_newRAT-Core

[R2-2002986](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002986.zip) Avoiding security risk for RLC AM bearers during termination point change Nokia, Nokia Shanghai Bell, Deutsche Telekom CR Rel-15 36.331 15.9.0 4241 - F NR\_newRAT-Core

[R2-2003697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003697.zip) Potential issue on the Counter Check in (NG)EN-DC and NR standalone Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

[R2-2003698](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003698.zip) Draft LS to SA3 on potential issue of Counter Check Huawei, HiSilicon LS out Rel-15 NR\_newRAT-Core To:SA3

**Conn Control Miscellaneous I**

* [AT109bis-e][008][NR15] Conn Control Miscellaneous I (Nokia, Ericsson, CATT, Huawei)

Scope: Treat R2-2002681, R2-2002682, R2-2002683, R2-2003071, R2-2003386, R2-2003196, R2-2003197, R2-2002787, R2-2003480, R2-2003483,

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2002681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002681.zip) Discussion on recursion in RRC Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core R2-2000856

[R2-2002682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002682.zip) Clarification on recursion in RRC messages Nokia, Nokia Shanghai Bell, Apple CR Rel-15 38.331 15.9.0 1456 1 F NR\_newRAT-Core R2-2000857

[R2-2002683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002683.zip) Clarification on recursion in RRC messages Nokia, Nokia Shanghai Bell, Apple CR Rel-16 38.331 16.0.0 1514 - A NR\_newRAT-Core

[R2-2003071](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003071.zip) Clarification on recursion in RRC messages Nokia, Nokia Shanghai Bell, Apple CR Rel-16 36.331 16.0.0 4244 - F NR\_newRAT-Core

[R2-2003386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003386.zip) Piggybacking of NAS PDUs including Service Accept Ericsson discussion Rel-15 NR\_newRAT-Core

[R2-2003196](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003196.zip) Correction related to RRC reconfiguration complete Ericsson CR Rel-15 38.331 15.9.0 1543 - F NR\_newRAT-Core

[R2-2003197](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003197.zip) Correction related to RRC reconfiguration complete Ericsson CR Rel-16 38.331 16.0.0 1544 - A NR\_newRAT-Core

[R2-2002787](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002787.zip) Correction on CSI-ResourceConfig CATT CR Rel-15 38.331 15.9.0 1522 - F NR\_newRAT-Core

[R2-2003480](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003480.zip) Correction on PUSCH-less uplink carrier Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1564 - F NR\_newRAT-Core

[R2-2003483](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003483.zip) Correction on PUSCH-less uplink carrier Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1565 - A NR\_newRAT-Core

**Conn Control Miscellaneous II**

* [AT109bis-e][009][NR15] Conn Control Miscellaneous II (Huawei, Google, China Unicom)

Scope: Treat R2-2003690, R2-2003691, R2-2003692, R2-2003693, R2-2003694, R2-2003695, R2-2003670, R2-2003671, R2-2003778,

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2003690](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003690.zip) Correction on the need for reconfiguration with sync in (NG)EN-DC, NR-DC and NE-DC Huawei, HiSilicon, Ericsson CR Rel-15 38.331 15.9.0 1571 - F NR\_newRAT-Core

[R2-2003691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003691.zip) Correction on the need for reconfiguration with sync in (NG)EN-DC, NR-DC and NE-DC Huawei, HiSilicon, Ericsson CR Rel-16 38.331 16.0.0 1572 - A NR\_newRAT-Core

[R2-2003692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003692.zip) Correction on reestablishRLC Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1573 - F NR\_newRAT-Core

[R2-2003693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003693.zip) Correction on reestablishRLC Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1574 - A NR\_newRAT-Core

[R2-2003694](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003694.zip) Clarfication on Scell release Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1415 2 F NR\_newRAT-Core R2-2001186

[R2-2003695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003695.zip) Clarfication on Scell release Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1575 - A NR\_newRAT-Core

[R2-2003670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003670.zip) Discussion on radio bear configuration in MR-DC Google Inc. discussion Rel-15 NR\_newRAT-Core

[R2-2003671](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003671.zip) Correction to RadioBearerConfig Google Inc. CR Rel-15 38.331 15.9.0 1570 - F NR\_newRAT-Core

[R2-2003244](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003244.zip) Clarification on the using of RRCSetup in 38.331 China Unicom, Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1545 - F NR\_newRAT-Core

=> Revised in [R2-2003778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003778.zip)

[R2-2003778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003778.zip) Clarification on the using of RRCSetup in 38.331 China Unicom, Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1545 1 F NR\_newRAT-Core

Further Enhancements – Not Treated

[R2-2002786](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002786.zip) Fully Utilize of RACH Preamble Distribution CATT CR Rel-15 38.331 15.9.0 1521 - F NR\_newRAT-Core

**Withdrawn**

R2-2002763 Clarification on the presence of ssb-perRACH-Occasion for the CSI-RS based CFRA ZTE Corporation, Sanechips, Ericsson (Rapporteur) discussion Rel-15 38.331 NR\_newRAT-Core R2-2000664 Withdrawn

#### 5.4.1.2 RRM and Measurements and Measurement Coordination

Including late drop.

* [AT109bis-e][010][NR15] Measurements (Huawei, Nokia)

Scope: Treat all docs under AI 5.4.1.2

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC (chair comment: expect R2-2002692 and 2693 to be easy agreements as we already have agreed them).

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

**SSB-ToMeasure**

[R2-2002692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002692.zip) Clarification for SSB-ToMeasure Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.9.0 1457 1 F NR\_newRAT-Core R2-2000859

[R2-2002693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002693.zip) Clarification of SSB-ToMeasure Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.0.0 1516 - A NR\_newRAT-Core

**Inter-RAT SFTD**

[R2-2003734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003734.zip) Correction to inter-RAT SFTD measurements Huawei, HiSilicon CR Rel-15 36.331 15.9.0 4285 - F NR\_newRAT-Core

[R2-2003735](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003735.zip) Correction to inter-RAT SFTD measurements Huawei, HiSilicon CR Rel-16 36.331 16.0.0 4286 - A NR\_newRAT-Core

[R2-2003701](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003701.zip) Correction to inter-RAT SFTD measurements Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1578 - F NR\_newRAT-Core

[R2-2003702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003702.zip) Correction to inter-RAT SFTD measurements Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1579 - A NR\_newRAT-Core

**Withdrawn**

R2-2003699 Correction to inter-RAT SFTD measurements Huawei, HiSiicon CR Rel-15 38.331 15.9.0 1576 - F NR\_newRAT-Core Withdrawn

R2-2003700 Correction to inter-RAT SFTD measurements Huawei, HiSiicon CR Rel-16 38.331 16.0.0 1577 - A NR\_newRAT-Core Withdrawn

#### 5.4.1.3 System information

* [AT109bis-e][011][NR15] System Information & Other (Huawei, Ericsson, Apple)

Scope: Treat all docs under AI 5.4.1.3 and AI 5.4.1.5

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

**SIB1**

[R2-2002818](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002818.zip) Clarification on the essential fields in SIB1 Apple CR Rel-15 38.331 15.9.0 1525 - F NR\_newRAT-Core

[R2-2002819](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002819.zip) Clarification on the essential fields in SIB1 Apple CR Rel-16 38.331 16.0.0 1526 - F NR\_newRAT-Core

**PWS and MG**

[R2-2003283](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003283.zip) ETWS and CMAS acquisition during measurement gaps Ericsson, Qualcomm, NTT DOCOMO INC, Nokia, InterDigital discussion Rel-15 NR\_newRAT-Core

[R2-2003282](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003282.zip) Clarification for SIB6, SIB7 and SIB8 acquisition during a measurement gap Ericsson, Qualcomm, NTT DOCOMO INC, Nokia, InterDigital CR Rel-15 38.331 15.9.0 1551 - F NR\_newRAT-Core

[R2-2003527](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003527.zip) Clarification for SIB6, SIB7 and SIB8 acquisition during a measurement gap Ericsson, Qualcomm, NTT DOCOMO INC, Nokia, InterDigital CR Rel-16 38.331 16.0.0 1566 - A NR\_newRAT-Core

5 tdocs moved here from 4.5:

[R2-2003569](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003569.zip) Discussion on Need code for CMAS Huawei, HiSilicon discussion Rel-15 TEI15

[R2-2003570](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003570.zip) Correction on Need code for CMAS Huawei, HiSilicon draftCR Rel-15 36.331 15.9.0 F TEI15

[R2-2003571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003571.zip) Correction on Need code for CMAS Huawei, HiSilicon draftCR Rel-16 36.331 16.0.0 A TEI15

[R2-2003572](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003572.zip) Correction on Need code for CMAS Huawei, HiSilicon draftCR Rel-15 38.331 15.9.0 F TEI15

[R2-2003573](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003573.zip) Correction on Need code for CMAS Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 A TEI15

#### 5.4.1.4 Inter-Node RRC messages

* [AT109bis-e][012][NR15] Inter Node Coord (Ericsson, Google)

Scope: Treat all docs under AI 5.4.1.4

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

**Coordination on meas IDs**

[R2-2003195](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003195.zip) Remaining issues on MN-SN measurement coordination in INM Ericsson discussion Rel-15 NR\_newRAT-Core

[R2-2003193](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003193.zip) Correction on MN-SN measurements coordination in INM Ericsson CR Rel-15 38.331 15.9.0 1541 - F NR\_newRAT-Core

[R2-2003194](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003194.zip) Correction on MN-SN measurements coordination in INM Ericsson CR Rel-16 38.331 16.0.0 1542 - A NR\_newRAT-Core

*Move from 5.2.2*

[R2-2003191](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003191.zip) Correction on MN-SN measurements coordination in INM Ericsson CR Rel-15 37.340 15.8.0 0193 - F NR\_newRAT-Core

[R2-2003192](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003192.zip) Correction on MN-SN measurements coordination in INM Ericsson CR Rel-16 37.340 16.1.0 0194 - A NR\_newRAT-Core

**RRC version in inter-node**

[R2-2003753](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003753.zip) Introduce RRC version for source configuration Google Inc. draftCR Rel-16 38.331 16.0.0 F NR\_newRAT-Core, TEI16

#### 5.4.1.5 Other

Moved from 5.4.1.1:

[R2-2003696](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003696.zip) Mandatory presence of a need M field due to a child presence condition Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

### 5.4.2 LTE changes related to NR

* [AT109bis-e][059][NR15] LTE changes related to NR (Ericsson, CATT, Google, Nokia)

Scope: Treat all docs under AI 5.4.2

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2002645](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002645.zip) Correction to shortResumeMAC-I calculation for RRC\_INACTIVE Ericsson CR Rel-15 36.331 15.9.0 4238 - F LTE\_5GCN\_connect-Core

[R2-2002597](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002597.zip) Correction to shortResumeMAC-I calculation for RRC\_INACTIVE Ericsson CR Rel-16 36.331 16.0.0 4237 - F LTE\_5GCN\_connect-Core

[R2-2002788](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002788.zip) Correction on Release of EN-DC CATT CR Rel-15 36.331 15.9.0 4223 1 F NR\_newRAT-Core R2-2001455

[R2-2003684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003684.zip) UE measurement capability requirements for NR Google Inc. CR Rel-15 36.331 15.9.0 4281 - F NR\_newRAT-Core

[R2-2003156](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003156.zip) Clarification to TTI bundling configuration in NE-DC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.9.0 4252 - F NR\_newRAT-Core

[R2-2003157](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003157.zip) Clarification to TTI bundling configuration in NE-DC Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.0.0 4253 - A NR\_newRAT-Core

### 5.4.3 UE capabilities and Capability Coordination

Including Late Drop

Including outcome of the email discussion [Post109e#24][NR15] Clarification of capabilities with NR-DC and NE-DC (Ericsson). Including outcome of the email discussion [Post109e#25][NR15] SRS Capability report for SRS only Scell (Huawei).

**XDD-FRX Differentiation**

**Treated on-line**

[R2-2002505](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002505.zip) LS on XDD-FRX Differentiation (R1-1913579; contact: Qualcomm) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2 Cc:RAN4

[R2-2003454](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003454.zip) Discussion on capabilities with XDD-FRX differentiations Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core R2-2001320

[R2-2003455](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003455.zip) Draft LS on capabilities with XDD-FRX differentiations Huawei, HiSilicon LS out Rel-15 NR\_newRAT-Core To:RAN1 Cc:RAN4

[R2-2002573](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002573.zip) xDD FRx split capabilities. Qualcomm Incorporated discussion Rel-15 NR\_newRAT-Core

[R2-2003269](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003269.zip) Signaling for XDD-FRX differentiation Ericsson discussion

[R2-2003270](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003270.zip) Signaling for XDD-FRX differentiation (38.331) Ericsson CR Rel-15 38.331 15.9.0 1547 - F NR\_newRAT-Core

[R2-2003271](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003271.zip) Signaling for XDD-FRX differentiation (38.331) Ericsson CR Rel-16 38.331 16.0.0 1548 - A NR\_newRAT-Core

[R2-2003272](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003272.zip) Signaling for XDD-FRX differentiation (38.306) Ericsson CR Rel-15 38.306 15.9.0 0278 - F NR\_newRAT-Core

[R2-2003273](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003273.zip) Signaling for XDD-FRX differentiation (38.306) Ericsson CR Rel-16 38.306 16.0.0 0279 - A NR\_newRAT-Core

[R2-2002654](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002654.zip) Discussion on XDD FRX difference OPPO discussion Rel-15 38.306

[R2-2002655](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002655.zip) 38306\_CRyyyy\_(REL-15)\_Correct on XDD FRX difference OPPO CR Rel-15 38.306 15.9.0 0270 - F NR\_newRAT-Core

[R2-2003750](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003750.zip) Discussion on XDD-FRX differentiation in UE capability ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core R2-2000246

[R2-2003751](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003751.zip) CR to 38.306 on XDD-FRX differentiation in UE capability ZTE Corporation, Sanechips CR Rel-15 38.306 15.9.0 0227 1 F NR\_newRAT-Core R2-2000247

[R2-2003752](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003752.zip) CR to 38.331 on XDD-FRX differentiation in UE capability ZTE Corporation, Sanechips CR Rel-15 38.331 15.9.0 1436 1 F NR\_newRAT-Core R2-2000248

[R2-2003274](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003274.zip) Ambiguity in fr1-fr2-Add-UE-NR-Capabilities parameter Ericsson, NTT Docomo CR Rel-15 38.331 15.9.0 1549 - F NR\_newRAT-Core

[R2-2003275](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003275.zip) Ambiguity in fr1-fr2-Add-UE-NR-Capabilities parameter Ericsson, NTT Docomo CR Rel-16 38.331 16.0.0 1550 - A NR\_newRAT-Core

**FR2 Fallback**

**Treated on-line**

[R2-2003737](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003737.zip) Fallback band combinations Ericsson, AT&T, T-Mobile, Vodafone, Deutsche Telekom, Telecom Italia S.p.A, NTT DOCOMO INC. discussion Rel-15 NR\_newRAT-Core

[R2-2002802](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002802.zip) Handling of Fallbacks for Contiguous and Non-contiguous CA in FR2 Apple, Nokia, Nokia Shanghai Bell, Intel, InterDigital, Xiaomi Communications, Spreadtrum Communications, CMCC, Panasonic discussion NR\_Mob\_enh-Core

[R2-2002803](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002803.zip) FR2 CA fallback Apple, Nokia, Nokia Shanghai Bell, Intel, InterDigital, Xiaomi Communications, Spreadtrum Communications, CMCC, Panasonic CR Rel-16 38.331 16.0.0 1523 - F NR\_newRAT-Core

[R2-2002804](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002804.zip) FR2 CA fallback Apple, Nokia, Nokia Shanghai Bell, Intel, InterDigital, Xiaomi Communications, Spreadtrum Communications, CMCC, Panasonic CR Rel-16 38.306 16.0.0 0274 - F NR\_newRAT-Core

**SRS for DL-only SCell capability**

**Treated on-line**

[R2-2003443](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003443.zip) [Post109e#25][NR15] SRS Capability report for SRS only Scell summary Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

[R2-2003444](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003444.zip) SRS Capability report for SRS only Scell Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1559 - F NR\_newRAT-Core

[R2-2003445](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003445.zip) SRS Capability report for SRS only Scell Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1560 - A NR\_newRAT-Core

[R2-2002574](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002574.zip) Correction on UE capability signalling for simultaneous SRS antenna and carrier switching Qualcomm Incorporated CR Rel-15 38.306 15.9.0 0265 - F NR\_newRAT-Core

UE cap codebook parameters

* [AT109bis-e][013][NR15] UE Cap Codebook parameters (Nokia, Huawei)

Scope: Treat R2-2002552, R2-2002990, R2-2003456, R2-2003816, R2-2003817, R2-2003457, R2-2003458

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2002509](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002509.zip) Reply LS on default codebook parameters (R1-2001307; contact: Nokia) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2

=> Revised in [R2-2002552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002552.zip)

[R2-2002552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002552.zip) Reply LS on default codebook parameters (R1-2001307; contact: Nokia) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2

[R2-2002990](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002990.zip) TS 38.306 Clarifying consequences if not supported Nokia, Nokia Shanghai Bell, NTT Docomo Inc. CR Rel-15 38.306 15.9.0 0176 4 F NR\_newRAT-Core R2-2000165

[R2-2003456](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003456.zip) Discussion on the capability of Basic CSI feedback (2-32) Huawei, HiSilicon, Orange, Telecom Italia S.p.A., Vodafone, CMCC, China Unicom, China Telecom discussion Rel-15 NR\_newRAT-Core

[R2-2003764](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003764.zip) CR on the capability of Basic CSI feedback (2-32) Huawei, HiSilicon, Orange, Telecom Italia S.p.A., Vodafone, CMCC, China Unicom, China Telecom CR Rel-15 38.306 15.9.0 0283 1 F NR\_newRAT-Core [R2-2003457](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003457.zip) Late

=> Revised in R2-2003816

R2-2003816 CR on the capability of Basic CSI feedback (2-32) Huawei, HiSilicon, Orange, Telecom Italia S.p.A., Vodafone, CMCC, China Unicom, China Telecom, Ericsson CR Rel-15 38.306 15.9.0 0283 2 F NR\_newRAT-Core R2-2003457 Late

[R2-2003765](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003765.zip) CR on the capability of Basic CSI feedback (2-32) Huawei, HiSilicon, Orange, Telecom Italia S.p.A., Vodafone, CMCC, China Unicom, China Telecom CR Rel-16 38.306 16.0.0 0284 1 A NR\_newRAT-Core [R2-2003458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003458.zip) Late

=> Revised in R2-2003817

R2-2003817 CR on the capability of Basic CSI feedback (2-32) Huawei, HiSilicon, Orange, Telecom Italia S.p.A., Vodafone, CMCC, China Unicom, China Telecom, Ericsson CR Rel-16 38.306 16.0.0 0284 2 A NR\_newRAT-Core R2-2003458 Late

[R2-2003457](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003457.zip) CR on the capability of Basic CSI feedback (2-23) Huawei, HiSilicon, Orange, Telecom Italia S.p.A., Vodafone, CMCC, China Unicom, China Telecom CR Rel-15 38.306 15.9.0 0283 - F NR\_newRAT-Core Revised

[R2-2003458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003458.zip) CR on the capability of Basic CSI feedback (2-23) Huawei, HiSilicon, Orange, Telecom Italia S.p.A., Vodafone, CMCC, China Unicom, China Telecom CR Rel-16 38.306 16.0.0 0284 - A NR\_newRAT-Core Revised

UE Cap Miscellaneous I

* [AT109bis-e][014][NR15] UE Cap Miscellaneous I (Qualcomm, ZTE, Mediatek, Huawei)

Scope: Treat R2-2002571, R2-2002572, R2-2002696, R2-2002578, R2-2002679, R2-2002724, R2-2003463, R2-2003464

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2002571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002571.zip) Corrections on the number of DRBs Qualcomm Incorporated CR Rel-15 38.306 15.9.0 0262 - F NR\_newRAT-Core

[R2-2002572](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002572.zip) Corrections on the number of DRBs Qualcomm Incorporated CR Rel-15 36.331 15.9.0 4235 - F TEI15

[R2-2002696](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002696.zip) CR on unnecessary FRx differentiation ZTE Corporation, Sanechips CR Rel-15 38.306 15.9.0 0273 - F NR\_newRAT-Core

[R2-2002578](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002578.zip) Signalling of NR-DC only band combination Qualcomm Incorporated discussion Rel-15 NR\_newRAT-Core

[R2-2002579](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002579.zip) Clarification on supported NR-DC cell grouping Qualcomm Incorporated CR Rel-15 38.306 15.9.0 0264 - F NR\_newRAT-Core

[R2-2002724](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002724.zip) Correction to need code for capabilityRequestFilterCommon MediaTek Inc. CR Rel-15 38.331 15.9.0 1519 - F NR\_newRAT-Core

[R2-2003463](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003463.zip) Correction to RequestedCapabilityCommon Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1561 - F NR\_newRAT-Core

[R2-2003464](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003464.zip) Correction to RequestedCapabilityCommon Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1562 - A NR\_newRAT-Core

UE Cap Miscellaneous II

* [AT109bis-e][015][NR15] UE Cap Miscellaneous II (Qualcomm, ZTE, Mediatek, Huawei)

Scope: Treat R2-2003306, R2-2003307, R2-2003280, R2-2003281, R2-2003459, R2-2003460, R2-2003461, R2-2003462

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2003306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003306.zip) Undefined band combinations in UECapabilityInformation Ericsson discussion Rel-15 NR\_newRAT-Core

[R2-2003307](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003307.zip) Bands in supportedBandListNR Ericsson discussion Rel-15 NR\_newRAT-Core

[R2-2003280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003280.zip) Missing "Optional features without UE radio access capability parameters" Ericsson CR Rel-15 38.306 15.9.0 0280 - F NR\_newRAT-Core

[R2-2003281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003281.zip) Missing "Optional features without UE radio access capability parameters" Ericsson CR Rel-16 38.306 16.0.0 0281 - A NR\_newRAT-Core

[R2-2003459](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003459.zip) Correction on default Power class for FR2 Huawei, HiSilicon CR Rel-15 38.306 15.9.0 0285 - F NR\_newRAT-Core

[R2-2003460](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003460.zip) Correction on default Power class for FR2 Huawei, HiSilicon CR Rel-16 38.306 16.0.0 0286 - A NR\_newRAT-Core

[R2-2003461](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003461.zip) Correction to the serving cell number for ENDC power class Huawei, HiSilicon CR Rel-15 38.306 15.9.0 0287 - F NR\_newRAT-Core

[R2-2003462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003462.zip) Correction to the serving cell number for ENDC power class Huawei, HiSilicon CR Rel-16 38.306 16.0.0 0288 - A NR\_newRAT-Core

UE Cap Miscellaneous III

* [AT109bis-e][016][NR15] UE Cap Miscellaneous III (Oppo, ZTE, Nokia, Huawei)

Scope: Treat R2-2002694, R2-2002695, R2-2002637, R2-2002636, R2-2002989, R2-2002678, R2-2003541, R2-2003542

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2002694](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002694.zip) Clarification on BandParameters of BandCombination ZTE Corporation, Sanechips, OPPO discussion Rel-15 NR\_newRAT-Core

[R2-2002695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002695.zip) Corrections on BandParameters of BandCombination ZTE Corporation, Sanechips, OPPO CR Rel-15 38.331 15.9.0 1517 - F NR\_newRAT-Core

[R2-2002637](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002637.zip) Correction of Band Parameter (v1600) OPPO, ZTE Corporation, Sanechips CR Rel-16 38.331 16.0.0 1512 - F NR\_newRAT-Core

[R2-2002636](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002636.zip) Correction of Band Parameter (v1540) OPPO, ZTE Corporation, Sanechips CR Rel-16 38.331 16.0.0 1511 - A NR\_newRAT-Core

[R2-2002989](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002989.zip) TS 38.331 Dummifying bandwidth class F Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.9.0 0257 1 F NR\_newRAT-Core R2-2002059

[R2-2002678](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002678.zip) Corrections on bwp-WithoutRestriction OPPO CR Rel-15 38.306 15.9.0 0271 - F NR\_newRAT-Core

[R2-2003541](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003541.zip) Correction on bwp-SwitchingDelay Huawei, HiSilicon CR Rel-15 38.306 15.9.0 0291 - F NR\_newRAT-Core

[R2-2003542](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003542.zip) Correction on bwp-SwitchingDelay Huawei, HiSilicon CR Rel-16 38.306 16.0.0 0292 - A NR\_newRAT-Core

Not Available

R2-2003308 Email discussion report: Post109e#24][NR15] Clarification of capabilities with NR-DC and NE-DC Ericsson discussion Rel-15 NR\_newRAT-Core Late

**Withdrawn**

R2-2002635 Correction of Band Parameter (v1540) OPPO, ZTE Corporation, Sanechips CR Rel-15 38.331 15.9.0 1510 - F NR\_newRAT-Core Withdrawn

### 5.4.4 Idle/inactive mode procedures

This agenda item addresses the idle and inactive behaviour specified in 38.304 or 36.304. Other aspects related to inactive (e.g. state transitions, out of coverage, etc) are covered under RRC agenda items (5.4.1.x)

* [AT109bis-e][017][NR15] Cell Barred (Huawei)

Scope: Treat R2-2003339, R2-2003773

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

[R2-2003339](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003339.zip) Corrections to cell barred handling Huawei, HiSilicon CR Rel-15 38.304 15.6.0 0154 - F NR\_newRAT-Core

[R2-2003340](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003340.zip) Corrections to cell barred handling Huawei, HiSilicon CR Rel-16 38.304 16.0.0 0155 - A NR\_newRAT-Core

=> Revised in [R2-2003773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003773.zip)

[R2-2003773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003773.zip) Corrections to cell barred handling Huawei, HiSilicon CR Rel-16 38.304 16.0.0 0155 1 A NR\_newRAT-Core

## 5.5 Void

# 6 Rel-16 NR Work Items

## 6.0 Rel-16 General

### 6.0.1 RRC ASN.1 review

Including outcome of the email discussion [Post109e#51][ASN.1] RRC ASN.1 review NR (Ericsson)

* [NR Rel-16] 38331 ASN1 \* (Ericsson)

Scope: ASN.1 review email discussions for management of RIL issues and the ASN.1 review file span multiple meetings.

See also ftp.3gpp.org/Email\_Discussions/RAN2/[Misc]/ASN1 review/Rel-16 2020-06\* (where \* may be e.g. Phase1).

Deadlines and planning: Communicated in the email discussion.

Flagging of RIL Issues, Comments on Rapporteur proposals is also done in this email discussion.

ASN.1 review file and RIL list

R2-2003309 TS 38.331 Rel-16 ASN.1 review file, phase 1 Ericsson draftCR Rel-16 38.331 16.0.0 F TEI16 Late

R2-2003310 RIL list TS 38.331 Rel-16 ASN.1 review file, phase 1 Ericsson discussion Rel-15 TEI16 Late

RIs, Monday

\* I630, I631, I632, I634

\* H005

H001

S655

S352

H200

1627

E133

E134

\* H002

\* E032

\*\* S051

G001

E039

General

[R2-2003325](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003325.zip) [I630, I631, I632, I633] General discussion on Rel-16 ASN.1 related issues Intel Corporation discussion Rel-16 Late

[R2-2003628](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003628.zip) [H005] Discussion on delta signaling without AddModList Huawei, HiSilicon discussion Rel-16 Late

IE merge / reuse

[R2-2003626](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003626.zip) [H003] Discussion on time domain resource allocation in multiple R16 topics Huawei, HiSilicon discussion Rel-16 Late

[R2-2003412](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003412.zip) [S051] Correction to NR-U and IIoT merger for harq-ProcID-offset Ericsson CR Rel-16 38.321 16.0.0 0727 - F NR\_unlic-Core, NR\_IIOT

[R2-2003413](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003413.zip) [S051] Correction to NR-U and IIoT merger for harq-ProcID-offset Ericsson CR Rel-16 38.331 16.0.0 1558 - F NR\_unlic-Core, NR\_IIOT

SON/MDT/DCCA

[R2-2003788](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003788.zip) [E032] Correction to UE response procedure for idle measurements Ericsson draftCR Rel-16 38.331 16.0.0 LTE\_NR\_DC\_CA\_enh-Core, NR\_SON\_MDT-Core Late

Cross WI DCCA Mobility

[R2-2003201](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003201.zip) [E038] Triggering of fast MCG recovery upon T312 expiry Ericsson draftCR Rel-16 38.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core, NR\_Mob\_enh-Core Late

SON MDT

[R2-2003078](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003078.zip) [E008] On adding LBTFailure as RLF cause Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core, NR\_unlic-Core

[R2-2003079](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003079.zip) [E008] On adding LBTFailure as SCG Failure cause Ericsson draftCR Rel-16 36.331 16.0.0 F NR\_SON\_MDT-Core, NR\_unlic-Core

[R2-2003094](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003094.zip) [E051] On excluding the 2 step RA related RAReport Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core, NR\_2step\_RACH-Core

[R2-2003583](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003583.zip) [H016][H019][MDTSON] Discussion on the meaning of reportInterval for UL delay measurements Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2003584](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003584.zip) [H017][MDTSON] Discussion on the field CGI-InfoEUTRALogging Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2003585](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003585.zip) [H018][MDTSON] Discussion on PLMN id in the UE variable on CEF report Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

Power saving

[R2-2003230](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003230.zip) ASN.1/ general protocol issues on UE power saving (S406, S407, S408) Samsung Telecommunications discussion Rel-16

IIOT

[R2-2003311](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003311.zip) [H155] Change the type of reference time from integer to bitstring Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_IIOT-Core

URLLC

Can be found under AI 6.21

2 Step

[R2-2003630](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003630.zip) [H072] DraftCR for the overall organization of signalling for 2stepRACH Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_2step\_RACH-Core Late

[R2-2003631](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003631.zip) [H076-079] DraftCR for RACH-ConfigCommonTwoStepRA Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_2step\_RACH-Core Late

Positioning

[R2-2003632](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003632.zip) [H062][H065] DraftCR for slotOffset for aperiodic SRS Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core Late

[R2-2003633](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003633.zip) [H063][H066][H070][H071] DraftCR for the configuration of spatial relation for SRS with SSB Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core Late

On-demand SI in Connected

[R2-2003634](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003634.zip) [H207][H208][H209][H211][H218] DraftCR for on-demand SI request for positioning in RRC\_CONNECTED Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core Late

[R2-2003635](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003635.zip) [H221] DraftCR for DedicatedSIB-Request Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core Late

[R2-2003636](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003636.zip) [H215][H216][H217][H219] DraftCR for Actions upon reception of the SIB1 Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core Late

[R2-2003637](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003637.zip) [H222] DraftCR for on-demand SI request for positioning in RRC\_CONNECTED Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core Late

NR-U

[R2-2003638](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003638.zip) [H226] TP for the search space group switching for CSS Huawei, HiSilicon discussion Rel-16 Late

[R2-2003639](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003639.zip) [H227] TP for the decription for CG configuration Huawei, HiSilicon discussion Rel-16 Late

DCCA

[R2-2003654](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003654.zip) [M105][DCCA][MDT] Discussion on MeasResult2EUTRA MediaTek Inc. draftCR Rel-16 38.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core, NR\_SON\_MDT-Core Late

Not Treated (prel)

[R2-2003629](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003629.zip) [H002] Discussion on the use of SEQUENCE of SEQUENCE and CHOICE Huawei, HiSilicon discussion Rel-16 Late

Not avilable

R2-2003820 General ASN.1 issues for 36.331 Rel-16 (S007) Samsung R&D Institute UK discussion Rel-16 Late

R2-2003627 [H004] Discuission on the ASN.1 of inter-dependent field values Huawei, HiSilicon discussion Rel-16 Late

R2-2003714 [H230 ] Extension of a single Need M item to a list of this item Huawei, HiSilicon discussion Rel-16 NR\_eMIMO-Core Late

R2-2003715 [H231] Extending the number of entries of a list not using ToAddMod list Huawei, HiSilicon discussion Rel-16 NR\_eMIMO-Core Late

R2-2003716 [H232] Extension to the contents of items of a list using ToAddMostList in absence of extension markers Huawei, HiSilicon discussion Rel-16 NR\_eMIMO-Core Late

R2-2003717 [H233] Moving parameters used by RRCConnectionReconfiguration and RRCConnectionResume to IEs Huawei, HiSilicon discussion Rel-16 NR\_eMIMO-Core Late

Withdrawn

R2-2003388 ASN.1/ general protocol issues on UE power saving (S406, S407, S408) Samsung Telecommunications discussion Rel-16 Late Withdrawn

### 6.0.2 Feature List and UE capabilities

Coordination by Intel.

[R2-2003373](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003373.zip) UE capabilities for RAN1 feature list Intel Corporation, NTT DOCOMO, INC. draftCR Rel-16 38.331 16.0.0 B NR\_UE\_pow\_sav, NR\_IAB-Core, NR\_eMIMO-Core, NR\_IIOT-Core, NR\_2step\_RACH-Core, 5G\_V2X\_NRSL-Core, NR\_Mob\_enh-Core, NR\_pos-Core, NR\_unlic-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_SON\_MDT-Core, NR\_CLI\_RIM, NG\_RAN\_PRN-Core, TEI16, NR\_L1enh\_URLLC-Core

[R2-2003374](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003374.zip) UE capabilities for RAN1 feature list Intel Corporation, NTT DOCOMO, INC. draftCR Rel-16 38.306 16.0.0 B NR\_UE\_pow\_sav, NR\_IAB-Core, NR\_eMIMO-Core, NR\_IIOT-Core, NR\_2step\_RACH-Core, 5G\_V2X\_NRSL-Core, NR\_Mob\_enh-Core, NR\_pos-Core, NR\_unlic-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_SON\_MDT-Core, NR\_CLI\_RIM, NG\_RAN\_PRN-Core, TEI16, NR\_L1enh\_URLLC-Core

[R2-2003375](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003375.zip) Update for Rel-16 UE capabilities Intel Corporation, NTT DOCOMO, INC. draftCR Rel-16 38.822 15.0.1 B NR\_UE\_pow\_sav, NR\_IAB-Core, NR\_eMIMO-Core, NR\_IIOT-Core, NR\_2step\_RACH-Core, 5G\_V2X\_NRSL-Core, NR\_Mob\_enh-Core, NR\_pos-Core, NR\_unlic-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_SON\_MDT-Core, NR\_CLI\_RIM, NG\_RAN\_PRN-Core, TEI16, NR\_L1enh\_URLLC-Core

[R2-2003447](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003447.zip) Discussion on the way of capturing Rel-16 UE capabilities Huawei, HiSilicon discussion Rel-16 NR\_newRAT-Core

### 6.0.3 Other

Other Cross WI issues, e.g. MAC issues.

38.300

[R2-2002512](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002512.zip) LS on RAN1 input to Rel-16 TS 38.300 on V2X, Positioning and MR-DC (R1-2001356; contact: Nokia) RAN1 LS in Rel-16 5G\_V2X\_NRSL, NR\_pos-Core, LTE\_NR\_DC\_CA\_enh-Core To:RAN2

38.321

[R2-2003024](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003024.zip) Usage of eLCID field MediaTek Inc. discussion Rel-16

## 6.1 Integrated Access and Backhaul for NR

(NR\_IAB-Core; leading WG: RAN2; REL-16; started: Dec 18; target; June 20; WID: RP-200084, SR: RP-200083)

Time budget: 3 TU

Tdoc Limitation: 8 tdocs

### 6.1.1 Organisational

Including incoming LSs, draft TS, rapporteur inputs

[R2-2002727](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002727.zip) IAB workplan update Qualcomm Incorporated (Rapporteur) Work Plan Rel-16 R2-2000480

### 6.1.2 Stage-2 Corrections

CRs if needed 38300 36300 (QC), 37340 (Huawei)

* [AT109bis-e][018][IAB] Stage-2 (Qualcomm, Huawei)

Scope: Treat Stage-2: Issues, corrections and CRs (add CRs to x.300 if needed).

Specifically: R2-2003014, R2-2002728, R2-2003178

Part 1: Treat meeting input and comments.

Deadline: April 24 0700 UTC

Part 2: Update of CRs, e.g. to include agreements this meeting

[R2-2003014](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003014.zip) Miscellaneous correction to 37.340 for IAB Huawei, HiSilicon CR Rel-16 37.340 16.1.0 0192 - F NR\_IAB-Core

[R2-2002728](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002728.zip) Notation of IAB terminology Qualcomm Incorporated (Rapporteur) discussion Rel-16

[R2-2003178](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003178.zip) F1AP over LTE leg signalling correction to 37.340 Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IAB-Core

Further enhancements – Not treated

[R2-2003300](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003300.zip) On Multi-connectivity for IAB Ericsson discussion Rel-16 NR\_IAB-Core

### 6.1.3 BAP Open Issues and Corrections

Open issue: Configuration of DL mapping at IAB-donor DU (dependent on RAN3 work). Corrections to BAP: Routing, Bearer Mapping, BAP based Flow Control, Other

BAP CR and summary if needed by Huawei

* [AT109bis-e][019][IAB] BAP (Huawei)

Scope: Treat BAP issues corrections and CR.

Part 1: R2-2003011 (and other non-controversial corrections if any), R2-2003561 P1 and P2

Part 2: Potential additions after on-line session, or other forgotten things (TBD)

Deadline: April 23 0700 UTC

Part 3: Update of CR, e.g. to include all agreements this meeting

Summary

[R2-2003561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003561.zip) Summary of 6.1.3 for BAP open issues and corrections Huawei, HiSilicon discussion Rel-16 NR\_IAB-Core Late

Discussion proposals treated on-line, the rest by email.

CR

[R2-2003011](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003011.zip) Miscellaneous corrections to 38.340 for IAB Huawei, HiSilicon CR Rel-16 38.340 16.0.0 0001 - F NR\_IAB-Core

Covered by Summary

[R2-2002851](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002851.zip) Further consideration on bearer mapping ZTE, Sanechips discussion

[R2-2002889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002889.zip) Remaining issues of DL HbH FC vivo discussion

[R2-2003002](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003002.zip) TP on clarifying a condition and aligning a terminology in BAP specification LG Electronics Inc. discussion Rel-16 NR\_IAB-Core

[R2-2003015](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003015.zip) The bearer mapping configuration on the backup link in RLF Huawei, HiSilicon discussion Rel-16 NR\_IAB-Core

[R2-2003176](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003176.zip) Corrections to BAP Nokia, Nokia Shanghai Bell draftCR Rel-16 38.340 16.0.0 NR\_IAB-Core

[R2-2003438](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003438.zip) On Release of BAP Entities CATT discussion Rel-16 NR\_IAB-Core

### 6.1.4 User plane Open Issues and Corrections

Open Issue: Clarification of the implication of the MAC-CE to signal number of guard symbols. Corrections to User plane not covered by BAP

MAC CR and summary if needed by Samsung

* [AT109bis-e][020][IAB] User Plane (Samsung)

Scope: Treat UP issues corrections and CR.

Part 1: R2-2002691 (and other non-controversial corrections if any)

Part 2: Potential additions after on-line session (TBD)

Deadline first round: April 23 0700 UTC

Part 3: Update of CR

[R2-2002716](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002716.zip) Summary of IAB User Plane open issues and corrections Samsung Electronics GmbH report Late

Treat on-line !

*moved from 6.2.*

[R2-2002691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002691.zip) CR (IAB MAC - rapporteur corrections and clarifications) Samsung Electronics GmbH CR Rel-16 38.321 16.0.0 0708 - F NR\_IAB-Core

Covered by Summary

*moved from 6.2.*

[R2-2002690](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002690.zip) Finalising Rel-16 MAC design (IAB-related open issues) Samsung Electronics GmbH report

[R2-2002715](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002715.zip) Introducing a section for handling of Tdelta MAC CE Samsung Electronics GmbH CR Rel-16 38.321 16.0.0 0709 - F NR\_IAB-Core

[R2-2002679](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002679.zip) On interpretation and use of the Guard Symbols MAC CE Samsung Electronics GmbH discussion

[R2-2002680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002680.zip) Open issues with IAB LCID space extension Samsung Electronics GmbH discussion

[R2-2002852](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002852.zip) Discussion on IAB User plane aspects ZTE, Sanechips discussion

[R2-2002890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002890.zip) Renamed to be: remaining issues of preemtpive BSR vivo discussion

[R2-2002999](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002999.zip) Determining a cell to apply a Guard Symbols MAC CE LG Electronics Inc. discussion Rel-16 NR\_IAB-Core

[R2-2003000](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003000.zip) Consideration on LCID set for IAB MAC CE and reserved LCID values LG Electronics Inc. discussion Rel-16 NR\_IAB-Core

[R2-2003001](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003001.zip) TP for remaining issues on Guard Symbols MAC CE and LCID extension LG Electronics Inc. discussion Rel-16 NR\_IAB-Core

[R2-2003016](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003016.zip) Remaining issues of Guard Symbols MAC CE Huawei, HiSilicon discussion Rel-16 NR\_IAB-Core

[R2-2003017](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003017.zip) Clarification on the RACH configuration used in MAC procedure for IAB Huawei, HiSilicon discussion Rel-16 NR\_IAB-Core

[R2-2003018](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003018.zip) Clarification of BSR and Pre-emptive BSR Huawei, HiSilicon discussion Rel-16 NR\_IAB-Core

[R2-2003019](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003019.zip) Discussion on the SR cancelation for pre-BSR and LCID values for IAB Huawei, HiSilicon discussion Rel-16 NR\_IAB-Core

[R2-2003048](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003048.zip) Cell information in Guard symbols MAC CE Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IAB-Core

[R2-2003049](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003049.zip) Handling of IAB specific MAC CEs Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IAB-Core

[R2-2003359](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003359.zip) Change LCID to eLCID for IAB MAC CEs Ericsson CR Rel-16 38.321 16.0.0 0724 - F NR\_IAB-Core

[R2-2003644](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003644.zip) Issue of SR triggered by Pre-emptive BSR ASUSTeK discussion Rel-16 38.321 NR\_IAB-Core

[R2-2003720](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003720.zip) Remaining issues for IAB MAC Futurewei discussion

[R2-2003098](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003098.zip) PDCP duplication in IAB DC Lenovo, Motorola Mobility discussion Rel-16

### 6.1.5 RRC Open Issues and corrections

Including outcome of the email discussion [Post109e#35][IAB] RRC Open Issues (Ericsson),

On Open issues, only the email discussion is planned to be treated. Open Issues: Establishment of F1-C-over-LTE/X2AP path, Behaviour of IAB-node when going to NR RRC\_IDLE, Reestablishment at former descendant nodes (SA only).

Issues coord, Draft CRs by Ericsson

* [AT109bis-e][021][IAB] RRC (Ericsson)

Scope: Treat RRC issues corrections and CRs (except UE cap, which is treated separately)

Part 1: Non-Controversial parts of [R2-2003297](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003297.zip) (easy agreements), [R2-2003298](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003298.zip), [R2-2003299](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003299.zip) (and other non-controversial corrections if any), first round of discussion on R2-2003020

Part 2: Potential additions after on-line session (TBD)

Deadline first round: April 23 0700 UTC

Part 3: Update of CRs

[R2-2003297](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003297.zip) Report on email discussion [Post109e][035][IAB] RRC open issues Ericsson discussion Rel-16 NR\_IAB-Core

For-discussion parts treated on-line.

[R2-2003298](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003298.zip) Correction for TS 38.331 Related to IAB WI Ericsson CR Rel-16 38.331 16.0.0 1554 - F NR\_IAB-Core Late

[R2-2003299](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003299.zip) Correction for TS 36.331 Related to IAB WI Ericsson CR Rel-16 36.331 16.0.0 4255 - F NR\_IAB-Core Late

[R2-2002600](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002600.zip) Considerations on BAP entity release KDDI Corporation discussion

[R2-2002853](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002853.zip) Remaining issues for F1-C over LTE ZTE, Sanechips discussion

[R2-2002854](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002854.zip) Misellaneous RRC issues for IAB ZTE, Sanechips discussion

[R2-2003021](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003021.zip) Draft LS to RAN1 on IAB L1 parameters Huawei, HiSilicon LS out Rel-16 NR\_IAB-Core To:RAN1

[R2-2003301](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003301.zip) Allowing an IAB configuration without DRB Ericsson discussion Rel-16 NR\_IAB-Core

[R2-2003726](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003726.zip) SCGFailureInformation procedure in IAB RLF handling Samsung R&D Institute UK discussion

[R2-2003596](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003596.zip) No need to support RRC\_INACTIVE for IAB-MT LG Electronics France discussion NR\_IAB-Core

[R2-2003598](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003598.zip) On RRC connection without DRB LG Electronics France discussion NR\_IAB-Core

ASN.1 issues and RRC Corrections

[R2-2003728](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003728.zip) [S020],[S021] SMTC occasion calculation for smtc3 for IAB-MT Samsung R&D Institute UK discussion

[R2-2003742](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003742.zip) [S020] Conditional presence on smtc3 in IAB Samsung R&D Institute UK CR Rel-16 38.331 16.0.0 1582 - F NR\_IAB\_enh-Core

[R2-2003743](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003743.zip) [S021] Clarification on smtc3 operation in IAB Samsung R&D Institute UK CR Rel-16 38.331 16.0.0 1583 - F NR\_IAB\_enh-Core

[R2-2003020](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003020.zip) ASN.1 issues related to L1 parameters for IAB Huawei, HiSilicon discussion Rel-16 NR\_IAB-Core

### 6.1.6 RLF Handling Open Issues

Including outcome of the email discussion [Post109e#36][IAB] RLF Handling Open Issues (Qualcomm)

Open Issues: Behaviour of SA IAB-DU after BH RLF has been declared and RLF notification has been sent, RLF notification for IAB-node in ENDC. Note only the email discussion document is planned to be treated for this AI.

This AI is expected to be treated by email only.

* [AT109bis-e][022][IAB] RLF Handling (Qualcomm)

Scope: Treat RLF handling to close open issues and make correction if applicable, R2-2003813, and R2-2003726

Expected outcome: Decisions taken in this email discussion shall be taken into account in the other email discussions on CRs: RRC, possibly BAP, Possibly Idle Mode TS.

Deadline: April 24 0700 UTC

[R2-2002729](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002729.zip) Report email discussion [Post109e#36][IAB] RLF Handling Open Issues Qualcomm Incorporated report Rel-16

=> Revised in [R2-2003775](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003775.zip)

[R2-2003775](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003775.zip) Report email discussion [Post109e#36][IAB] RLF Handling Open Issues Qualcomm Incorporated report Rel-16

=> Revised in R2-2003813

R2-2003813 Report email discussion [Post109e#36][IAB] RLF Handling Open Issues Qualcomm Incorporated report Rel-16

Other

[R2-2002855](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002855.zip) Discussion on IAB BH RLF handling ZTE, Sanechips discussion

[R2-2002991](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002991.zip) Discussion on IAB BH RLF handling NEC discussion

[R2-2003099](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003099.zip) Fast MCG link recovery for IAB DC case Lenovo, Motorola Mobility discussion Rel-16

[R2-2003236](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003236.zip) Remaining details for Backhaul RLF Handling Futurewei discussion

[R2-2003302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003302.zip) Further details on Backhaul link RLF Notification Types to Downstream Node(s) Ericsson discussion Rel-16 NR\_IAB-Core

[R2-2003304](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003304.zip) Backhaul RLC Channel Remapping for IAB node(s) Ericsson discussion Rel-16 NR\_IAB-Core

[R2-2003314](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003314.zip) Possible issues on Backhaul RLF handling Kyocera discussion

### 6.1.7 IP address allocation Open Issues

Including outcome of the email discussion [Post109e#26][IAB] IP address allocation (Samsung). Please take into account also incoming LS in R3-201420. Note only the email discussion document is planned to be treated for this AI.

This AI is expected to be treated by email only.

* [AT109bis-e][023][IAB] IP address allocation (Samsung)

Scope: Treat IP address allocation to close open issues and make correction if applicable, R2-2002522, R2-2002523 and R2-2002672

Expected outcome: Decisions taken in this email discussion shall be taken into account in the other email discussions on CRs: RRC.

Deadline: April 24 0700 UTC

LS in

R2-2002522 LS on the inter donor DU re-routing and source IP configuration (R3-201418; contact: Huawei)) RAN3 LS in Rel-16 NR\_IAB-Core To:RAN2

R2-2002523 LS on IP address management in IAB network (R3-201420; contact: Samsung) RAN3 LS in Rel-16 NR\_IAB-Core To:RAN2

Email Discussion

[R2-2002672](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002672.zip) Report on email discussion [Post109e\_26 IAB IP address allocation (Samsung) Samsung Electronics GmbH report

Other

[R2-2002856](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002856.zip) Remaining issues of IP address allocation ZTE, Sanechips discussion

[R2-2003180](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003180.zip) IP address request in NSA and SA Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IAB-Core

[R2-2003303](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003303.zip) IP Address Assignment for IAB Node(s) Ericsson discussion Rel-16 NR\_IAB-Core

[R2-2003525](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003525.zip) IP address allocation for IAB-nodes Futurewei discussion

Moved from 6.1.3:

[R2-2003725](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003725.zip) IP address assignment for IAB node DU on failure handling Samsung R&D Institute UK discussion

### 6.1.8 UE capabilities

Optionality of Rel-15 UE Features for IAB-MT: From RP 87e: RAN WGs to investigate which of the mandatory Rel-15 UE features (as defined in TR 38.822) can be optional for basic operation of [the IAB-MT] (and if found useful, for different classes of IAB-MTs as defined by RAN4). RAN WGs should strive to minimize specification impact.

Summary by Nokia

[R2-2003794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003794.zip) Summary of 6.1.8 UE capabilities for IAB-MT Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IAB-Core

Treat Online

Covered by Summary

[R2-2002717](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002717.zip) Optional Rel-15 UE Features for IAB-MTs AT&T discussion Rel-16 Late

[R2-2002730](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002730.zip) Optionality of mandatory Rel-15 features for IAB-MT Qualcomm Incorporated discussion Rel-16

[R2-2002857](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002857.zip) Rel-15 mandatory UE features for Rel-16 IAB-MT ZTE, Sanechips discussion

[R2-2002858](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002858.zip) Discussion on channel bandwidth for Rel-16 IAB-MT ZTE, Sanechips discussion

[R2-2002891](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002891.zip) IAB-MT Capability of Rel-15 features vivo discussion

[R2-2003022](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003022.zip) Capturing IAB capability Huawei, HiSilicon discussion Rel-16 NR\_IAB-Core

[R2-2003177](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003177.zip) IAB-MT features list and capabilities Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IAB-Core

[R2-2003323](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003323.zip) Mandatory/optional features for IAB-MT Intel Corporation discussion Rel-16 NR\_IAB-Core

[R2-2003360](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003360.zip) Rel-15 capabilities to be supported by IAB-MT Ericsson discussion Rel-16 NR\_IAB-Core

[R2-2003361](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003361.zip) Capability signalling for IAB Ericsson discussion Rel-16 NR\_IAB-Core

[R2-2003439](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003439.zip) Views on IAB MT Capability CATT discussion Rel-16 NR\_IAB-Core

[R2-2003597](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003597.zip) Capabilities of IAB MTs LG Electronics France discussion NR\_IAB-Core

[R2-2003727](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003727.zip) Considering the optionality of Rel-15 UE features for IAB-MT use Samsung R&D Institute UK discussion

### 6.1.9 Other Corrections

304 Issues

* [AT109bis-e][024][IAB] 38304 36304 (Huawei)

Scope: Treat 36304 38304: Issues, corrections and CRs

Specifically: R2-2003012, R2-2003013, R2-2003179, R2-2003346

Part 1: Treat meeting input and comments. If more time is needed, e.g. for R2-2003346, gather initial comments and suggest way forward for decisions next meeting.

Deadline: April 24 0700 UTC

Part 2: Update of CRs, e.g. to include agreements this meeting

[R2-2003012](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003012.zip) Miscellaneous correction to 38.304 for IAB Huawei, HiSilicon CR Rel-16 38.304 16.0.0 0153 - F NR\_IAB\_enh-Core

[R2-2003013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003013.zip) Miscellaneous correction to 36.304 for IAB Huawei, HiSilicon CR Rel-16 36.304 16.0.0 0786 - F NR\_IAB\_enh-Core

[R2-2003179](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003179.zip) Cell re-selection handling for IAB-MT Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IAB-Core

Moved here from 6.1.5:

[R2-2003346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003346.zip) IAB support in NPN deployment Kyocera discussion

Clarifications and further enhancements – not treated

[R2-2002664](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002664.zip) PWS information handling in IAB Sony discussion Rel-16 NR\_IAB-Core R2-2000824

[R2-2002814](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002814.zip) Better cell selection for IAB Nodes Apple discussion NR\_IAB-Core

## 6.2 NR-based Access to Unlicensed Spectrum

(NR\_unlic-Core; leading WG: RAN1; REL-16; started: Dec 18; target; June 20; WID: [RP-192](file:///C:\Data\3GPP\Extracts\RP-191575%20Revised%20WID%20NR-U.doc)926; SR; RP-200459, Further prioritization guidance in RP-191581). Documents in this agenda item will be handled in a break out session.

Time budget: 3 TU

Tdoc Limitation: 3

### 6.2.1 General

Including incoming LSs, rapporteur inputs, etc.  
Contributions in this AI are reserved for WI rapporteur inputs and/or spec rapporteur inputs and do not count towards the tdoc limits. All comments related to 38.300, 38.304 should be given to Ozcan, spec rapporteur. Qualcomm will produce a document with the received issues and update the CR directly

Including [Post109e#40][NR-U] UE capabilities (Qualcomm, Vivo)

No contributions are expected for UE capabilities. Please provide your input to the email discussion. Vivo is expected to produce first draft of 38.304

R2-2002506 LS to RAN2 on NR-U related changes for 38.300 running CR (R1-2001300; contact: Qualcomm) RAN1 LS in Rel-16 NR\_unlic-Core To:RAN2

R2-2002513 LS on SSB index and candidate SSB index for NR-U (R1-2001357; contact: Samsung, Charter Communications) RAN1 LS in Rel-16 NR\_unlic-Core To:RAN2, RAN4

R2-2002514 LS on NR-U enhancements to initial access procedures (R1-2001375; contact: Charter Communications) RAN1 LS in Rel-16 NR\_unlic-Core To:RAN2

R2-2002516 Reply LS on consistent Uplink LBT failure detection mechanism (R1-2001397; contact: Nokia) RAN1 LS in Rel-16 NR\_unlic-Core To:RAN2

R2-2002530 LS on UL LBT failure recovery for the target cell (R4-2002282; contact: Ericsson) RAN4 LS in Rel-16 NR\_unlic-Core To:RAN2 Cc:RAN1

R2-2002584 Running CR to 38.306 on Introducing UE Capability for NR Shared Spectrum vivo draftCR Rel-16 38.306 16.0.0 B NR\_unlic-Core

R2-2002586 Running CR to 38.306 on Introducing UE Capability for NR Shared Spectrum vivo CR Rel-16 38.306 16.0.0 0266 - B NR\_unlic-Core Withdrawn

R2-2002844 Report of Post109e#40][NR-U] UE capabilities Qualcomm Incorporated report

R2-2003008 Reply LS on consistent Uplink LBT failure detection mechanism Nokia LS out Rel-16 NR\_unlic-Core To:RAN1 Late

R2-2003409 Corrections of NR-U in 38.321 Ericsson CR Rel-16 38.321 16.0.0 0726 - F NR\_unlic-Core

R2-2003411 Post109e#39 NR-U MAC open issues Ericsson discussion Rel-16 NR\_unlic-Core

### 6.2.2 User plane

*Including [Post109e#39][NR-U] MAC open issues (Ericsson)*

*Contributions related to issues addressed by the email discussions should be avoided and are discouraged for this AI.*

*All identified critical open issues should be provided to the rapporteur via email discussion Post109e#39 and new contributions on those topics are discouraged. Contributions should be reserved for more complicated issued.*

*No individual company CRs should be submitted*

R2-2002582 Clarification on the LBT Failure Indication vivo discussion

R2-2002583 Discussion on the UE Processing Time for Autonomous Retransmission vivo discussion

R2-2002613 Clash between NR-U and IIoT for the configured grant Samsung discussion Rel-16 NR\_unlic-Core

R2-2002614 Prioritization between initial TX and re-TX on CG in NR-U Samsung CR Rel-16 38.321 16.0.0 0706 - F NR\_unlic-Core

R2-2002837 Discussion incoming RAN1 LS on LBT failure indication OPPO discussion Rel-16 NR\_unlic-Core

R2-2002848 Remaining critical issues for LBT failures Qualcomm Incorporated discussion

R2-2002931 Stopping ongoing Random Access procedure LG Electronics Inc. discussion Rel-16 NR\_unlic-Core

R2-2003004 Remaining issue on 2-step random access in NR-U Huawei, HiSilicon discussion Rel-16 NR\_unlic-Core

R2-2003005 Discussion on the MAC CE for NR-U Huawei, HiSilicon discussion Rel-16 NR\_unlic-Core

R2-2003006 Discussion on PDCCH group switching for NR-U Huawei, HiSilicon discussion Rel-16 NR\_unlic-Core

R2-2003031 Flushing HARQ buffer of the pending HARQ process in NR-U LG Electronics Polska CR Rel-16 38.321 16.0.0 0717 - F NR\_unlic-Core

R2-2003050 Draft CR on LBT failure handling in MAC Nokia, Nokia Shanghai Bell draftCR Rel-16 38.321 16.0.0 NR\_unlic-Core

R2-2003410 UEs not supporting gap-less msgA transmission Ericsson discussion Rel-16 NR\_unlic-Core, NR\_2step\_RACH-Core

R2-2003498 MsgA PUSCH LBT failure impact CMCC discussion Rel-16

### 6.2.3 Control plane

*Including [Post109e#38][NR-U] RRC open issues (Qualcomm)*

*Contributions related to issues addressed by the email discussions should be avoided and are discouraged for this AI.*

*All identified critical open issues should be provided to the rapporteur via email discussion Post109e#38 and new contributions on those topics are discouraged. Contributions should be reserved for more complicated issued.*

*No individual company CRs should be submitted*

R2-2002615 Applicability of NR-U features to licensed carrier Samsung discussion Rel-16 NR\_unlic-Core R2-2000535

R2-2002719 On Q-values for Measurements in NR-U Mediatek Inc. discussion

R2-2002843 Report of [Post109e#38][NR-U] RRC open issues Qualcomm Incorporated report Late

R2-2002845 E-UTRAN and NR-U interworking Qualcomm Incorporated discussion

R2-2002846 NR-U RRC Open Issues List Qualcomm Incorporated discussion Late

R2-2002847 Miscellaneous corrections for NR-U Qualcomm Incorporated CR Rel-16 38.331 16.0.0 1528 - F NR\_unlic-Core Late

R2-2002910 Description on Short Message in TS38.331 LG Electronics Inc. discussion Rel-16

R2-2002966 Addressing RAN1 and RAN4 questions on LBT failure configuration ZTE Corporation, Sanechips discussion

R2-2002967 Draft-Reply LS on consistent UL LBT failure detection mechanism ZTE Corporation, Sanechips response Late

R2-2002968 Draft-Reply LS on LS on UL LBT failure recovery for the target cell ZTE Corporation, Sanechips response

R2-2003041 Remaining control plane issues Ericsson discussion NR\_unlic-Core R2-2000337

R2-2003407 LS reply to RAN4 on UL LBT failure recovery for the target cell Ericsson LS out Rel-16 NR\_unlic-Core To:RAN4 Cc:None Late

R2-2003408 UL LBT failure recovery for target cell Ericsson discussion Rel-16 NR\_unlic-Core

R2-2003414 Mobility to NR operating with shared spectrum access Qualcomm Incorporated CR Rel-16 36.331 16.0.0 4263 - B NR\_unlic-Core

## 6.4 NR V2X

(5G\_V2X\_NRSL-Core; leading WG: RAN1; REL-16; started: Mar 19; target; June 20; WID: [RP-](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-190984.zip)200129; SR: RP-200431). Documents in this agenda item will be handled in a break out session

Time budget: 3 TU

Tdoc Limitation: Besides 6.4.2.3, 1 tdoc for discussion and if needed 1 tdoc for TP/draft CR in each agenda item. Note we aim to have single big CR due to e-meeting restrictions and the big CR (by CR rapporteur) will include all agreed proposals. Also note more than 1 TP/draft CRs can be submitted if discussion document includes changes cross multiple specifications, e.g. in agenda item 6.4.3.2 if 1 discussion document includes changes of RLC and PDCP specifications, you can submit both RLC TP/draft CR and PDCP TP/draft CR. Note it is not allowed to submit multiple TPs/draft CRs for the same specification, e.g. in agenda item 6.4.3.1, you cannot submit multiple MAC TPs/draft CRs for multiple MAC issues, i.e. 1 TP/draft CR per specification regardless of the number of issues. For simple corrections/clarifications, please coordinate with CR rapporteurs rather than submitting individual contribution.

### 6.4.1 General

Including incoming LSs, rapporteur inputs, etc.

R2-2002507 Reply LS on NR V2X resource pool configuration and selection (R1-2001304; contact: vivo) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

R2-2002518 LS on sidelink HARQ (R1-2001426; contact: LGE) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

R2-2002541 LS reply to RAN WG2 LS on NR V2X Security issue and PDCP SN size (S3-200478; contact: CATT) SA3 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

R2-2002563 (draft)LS response to SA3 on NR V2X security issue ZTE Corporation, Sanechips LS out 5G\_V2X\_NRSL-Core To:SA3

R2-2002662 Minor Correction in TS38.300 on SL physical layer measurements Nokia, Nokia Shanghai Bell discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003513 [DRAFT] LS response to SA3 on the security related issues for NR SL Huawei, HiSilicon LS out 5G\_V2X\_NRSL To:SA3

R2-2003514 Corrections on V2X functionalities in TS 36.331 Huawei, HiSilicon CR Rel-16 36.331 16.0.0 4270 - F 5G\_V2X\_NRSL Late

R2-2003519 RRC Open Issue List for 5G V2X with NR SL Huawei (Rapporteur) other 5G\_V2X\_NRSL Late

R2-2003559 Miscellaneous corrections to 38.331 for V2X Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1569 - F 5G\_V2X\_NRSL-Core Late

R2-2003672 Draft LS response to RAN1 on sidelink HARQ Huawei, Hisilicon LS out 5G\_V2X\_NRSL-Core To:RAN1

R2-2003818 [DRAFT] LS to RAN1 on configurations of L1 parameters in RRC Huawei, Hisilicon LS out 5G\_V2X\_NRSL-Core To:RAN1 Late

### 6.4.2 Control plane

R2-2002652 38331\_CRyyyy\_(REL-16)\_Correct to fix SIB12 size issue for NR V2X OPPO draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core

#### 6.4.2.1 RRC

Including remaining Uu and PC5 RRC issues. Note capability related issues are handled in 6.4.2.2 and class 3 ASN.1 issues are handled in 6.4.2.3. This agenda item will utilize a summary document to facilitate treatment of topics during the e-meeting. Summary document is provided by RRC CR rapporteur (Huawei).

R2-2002564 Discussion on NR V2X remaining RRC issues ZTE Corporation, Sanechips discussion 5G\_V2X\_NRSL-Core

R2-2002567 (draft)CR on TS 38.331 for NR V2X on miscellaneous issues ZTE Corporation, Sanechips draftCR Rel-16 38.331 16.0.0 D 5G\_V2X\_NRSL-Core

R2-2002621 Discussion on RRC open issues [N001,N002,N005] OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002622 Draft-CR on RRC open issues of 38.331 [N001,N002,N005] OPPO draftCR Rel-16 38.331 16.0.0 B 5G\_V2X\_NRSL-Core

R2-2002651 Open issues on system information OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002653 36331\_CRyyyy\_(REL-16)\_ Correct on SIB28 message for NR V2X OPPO draftCR Rel-16 36.331 16.0.0 F 5G\_V2X\_NRSL-Core

R2-2002722 Configuration failure handling on PC5 MediaTek Inc. discussion Rel-16

R2-2002807 Remaining issues on PC5-RRC procedures Apple discussion 5G\_V2X\_NRSL-Core

R2-2002821 Triggering condition for sidelink RSRP reporting MediaTek Inc. discussion Rel-16

R2-2002828 Further Discussion on RRC Remaining Issues CATT discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002850 Left issue on RRC for NR V2X LG Electronics France discussion Rel-16 38.331 5G\_V2X\_NRSL-Core

R2-2002918 Summary of [Post109e#54][V2X] RRC Open Issues Huawei (Rapporteur) discussion Late

R2-2002919 Discussion on remaining RRC Open issues for 5G V2X with NR SL Huawei, HiSilicon discussion

R2-2002920 Draft CR to TS 38.331 on the remaining RRC Open issues for 5G V2X with NR SL Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL

R2-2002921 Draft CR to TS 38.321 on the remaining RRC Open issues for 5G V2X with NR SL Huawei, HiSilicon draftCR Rel-16 38.321 16.0.0 5G\_V2X\_NRSL

R2-2003096 RRC remaining issues for NR V2X Lenovo, Motorola Mobility discussion Rel-16

R2-2003114 SL RSRP report triggering Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003293 Open HARQ Issues Fraunhofer HHI, Fraunhofer IIS discussion R2-2000328

R2-2003295 Reporting of Sensing Result for Mode 1 UEs Fraunhofer HHI, Fraunhofer IIS, AT&T, Deutsche Telekom discussion R2-2000327

R2-2003312 Remaining issues on RRC for NR V2X Nokia, Nokia Shanghai Bell discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003338 Draft CR 38.331 Remaining issues on RRC for V2X Sidelink Nokia, Nokia Shanghai Bell draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

R2-2003347 RLF handling under multiple PC5-RRC connections Kyocera discussion

R2-2003520 Summary document on for AI 6.4.2.1 - RRC aspects Huawei, HiSilicon discussion Late

R2-2003528 Remaining issues for Sidelink AS Reconfiguration Qualcomm Finland RFFE Oy discussion

R2-2003536 Draft CR to 38.331 on AS reconfiguration failure Qualcomm Finland RFFE Oy draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL

R2-2003645 Remaining issues on RRC specification ASUSTeK discussion Rel-16 38.331 5G\_V2X\_NRSL-Core

R2-2003646 Clarification on UE behaviour for sidelink RoHC configuration ASUSTeK draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core

R2-2003722 RRC connection initiation trigger for SLRB configuration handling Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003759 CR on new RRC connection initiation trigger in V2X Samsung Electronics Co., Ltd CR Rel-16 38.331 16.0.0 1586 - F 5G\_V2X\_NRSL-Core

#### 6.4.2.2 Others

Including email discussion [Post109e#20] and remaining control plane issues other than RRC, e.g. capability, idle/inactive UE procedures, etc. This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting. Summary documents are provided by the corresponding CR rapporteurs (capability: OPPO, idle/inactive: ZTE).

R2-2002604 Open aspects on mode 2 operation Intel Corporation discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002638 Summary of [Post109e#20] V2X Remaining UE capability issues (OPPO) OPPO report Rel-16 5G\_V2X\_NRSL-Core Late

R2-2002639 Summary of capability related Tdoc submitted to R2#109bis-E OPPO report Late

R2-2002661 Further issues on the mismatch of UE capabilities in unicast sidelink Nokia, Nokia Shanghai Bell discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002771 Remaining Issues on NR V2X Resource Allocation for Zone Configuration ITRI discussion 5G\_V2X\_NRSL-Core

R2-2002808 Discussion on Interoperability of V2X UEs camped in different cells Apple discussion 5G\_V2X\_NRSL-Core

R2-2002829 Discussion on inter-RAT Cell Selection/Reselection CATT discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002830 Introduce a new IE in SIB1 to indicate the anchor frequency only CATT draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

R2-2002859 Left issues on UE capability for NR V2X LG Electronics France discussion Rel-16 38.331 5G\_V2X\_NRSL-Core

R2-2003097 Remaining issues of cell (re)selection for NR V2X Lenovo, Motorola Mobility discussion Rel-16

R2-2003214 UE capability left issue for NR V2X Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003366 Remaining issue on RRC state transition for groupcast ITRI discussion 5G\_V2X\_NRSL-Core

R2-2003515 Remaining issues on cell reselection for sidelink in TS 38.304 Huawei, HiSilicon discussion

R2-2003516 Draft CR to TS 38.304 on cell (re)selection for sidelink Huawei, HiSilicon draftCR Rel-16 38.304 16.0.0 5G\_V2X\_NRSL

R2-2003603 Clarification on cell reselection CATT draftCR Rel-16 38.304 16.0.0 5G\_V2X\_NRSL-Core

R2-2003721 Further discussion on cell reselection for V2X Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003756 Correction on cell reselection for V2X Samsung Electronics Co., Ltd CR Rel-16 38.331 16.0.0 1585 - F 5G\_V2X\_NRSL-Core

R2-2003779 Summary of NR V2X cell (re-)selection ZTE Corporation discussion Rel-16 5G\_V2X\_NRSL-Core

#### 6.4.2.3 ASN.1 issues

*Including documents related to class 3 ASN.1 review issues that require WI-specific discussion. This agenda item will utilize a summary document to facilitate treatment of topics during the e-meeting. Summary document is provided by RRC CR rapporteur (Huawei).*

R2-2002624 Correction on SL configuration procedure [N009] OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002625 Correction on SL configuration procedure [N009] OPPO draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core

R2-2002626 Left issues on inter-RAT UAI configuration and CBR report [N038] OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002627 Left issues on inter-RAT UAI configuration and CBR report [N038] OPPO draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core

R2-2002628 Left issues on inter-RAT UAI configuration and CBR report [N038] OPPO draftCR Rel-16 36.331 16.0.0 F 5G\_V2X\_NRSL-Core

R2-2002629 Correction on RLF report via SUI message [N037, RIL-O306] OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002630 Correction on RLF report via SUI message [N037, RIL-O306] OPPO draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core

R2-2002721 Cleanup of requirements on maintenance of PC5-RRC connection [N.016][N.021] MediaTek Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003206 [E035, E036, E042, E044, E045, E056, E062] Miscellaneous corrections for NR V2X Ericsson draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core Late

R2-2003207 [E040, E060] Correction to AS configuration failure in NR V2X Ericsson draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core Late

R2-2003208 [E059] Alignment of terminology for toAddModList and toReleaseList Ericsson draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core Late

R2-2003209 [E055, E057, E058] Missing initiation actions in NR V2X RRC procedure Ericsson draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core Late

R2-2003210 [E055, E057, E058] Missing initiation actions in NR V2X RRC procedure Ericsson draftCR Rel-16 36.331 16.0.0 F 5G\_V2X\_NRSL-Core Late

R2-2003211 [E061] Correction on sl-Failure in SidelinkUEInformation Ericsson draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core Late

R2-2003212 [E046, E047] Correction to CBR measurements for V2X Ericsson draftCR Rel-16 36.331 16.0.0 F 5G\_V2X\_NRSL-Core Late

R2-2003213 [E046, E047] Correction to CBR measurements for V2X Ericsson draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core Late

R2-2003215 [048] Missing RAN1 agreements to transmission of SLSS for NR V2X Ericsson draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core Late

R2-2003432 Ambiguity on which SL carrier frequency to be released (N.040) vivo discussion

R2-2003433 No CBR based PSSCH tx parameters configuration to mode 1 UE (N.041) vivo discussion

R2-2003434 Sidelink communication reception (N.042) vivo discussion

R2-2003435 Frequency resources configuration for actually used PSFCH transmissions (N.043) vivo discussion

R2-2003436 Align PSFCH Configuration of TX and RX resource pools (N.044) vivo discussion

R2-2003517 Discussion on Inter-RAT measurement reporting related issue for NR SL in TS 36.331 [N.011] Huawei, HiSilicon discussion

R2-2003518 Draft CR on inter-RAT measurement reporting related issue in TS 36.331 [N.011] Huawei, HiSilicon draftCR Rel-16 36.331 16.0.0 5G\_V2X\_NRSL

R2-2003560 Summary document of 6.4.2.3 for ASN.1 related issues in V2X session Huawei, HiSilicon discussion Rel-16 5G\_V2X\_NRSL-Core Late

R2-2003599 Clarification on resource usage in case of exceptional cases [ Issue #N.026] CATT draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core Late

R2-2003600 Clarification on sidelink RRC reconfiguration failure[ Issue #N.028] CATT draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core Late

R2-2003601 Clarification on SUI transmission[ Issue #N.024] CATT draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core Late

R2-2003623 Discussion on the SL configuration in CU-DU architecture Huawei, HiSilicon discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003624 Draft LS on SL configuration in CU-DU architecture to R3 Huawei, HiSilicon LS out Rel-16 5G\_V2X\_NRSL-Core To:RAN3

R2-2003625 Draft CR to support the SL configuration in CU-DU architecture Huawei, HiSilicon discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003673 Clarification of SLRB configuration for IP SDU or non-IP SDU Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003674 Clarification of SLRB configuration for IP SDU or non-IP SDU Samsung Electronics Co., Ltd draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

R2-2003675 NR V2X TX profile configuration Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core R2-1915941

R2-2003676 NR V2X TX profile configuration Samsung Electronics Co., Ltd draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

R2-2003677 NR Sidelink PDCP out of order delivery configuration Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003678 NR Sidelink PDCP out of order delivery configuration Samsung Electronics Co., Ltd draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

R2-2003679 Clarification for SLRB configuration procedures Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003680 Clarification for SUI message transmission Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

### 6.4.3 User plane

#### 6.4.3.1 MAC

Including email discussion [Post109e#21], [Post109e#22], and remaining MAC issues. This agenda item will utilize a summary document to facilitate treatment of topics during the e-meeting. Summary document is provided by MAC CR rapporteur (LG).

R2-2002558 Remaining Issues\_Sidelink CSI Reporting and Interruption handling Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002559 SR Trigger for Sidelink CSI Reporting Samsung Electronics Co., Ltd draftCR Rel-16 38.321 16.0.0 F 5G\_V2X\_NRSL-Core

R2-2002565 Discussion on NR V2X remaining MAC issues ZTE Corporation, Sanechips discussion 5G\_V2X\_NRSL-Core

R2-2002568 (draft)CR on TS 38.321 for NR V2X on miscellaneous issues ZTE Corporation, Sanechips draftCR Rel-16 38.321 16.0.0 B 5G\_V2X\_NRSL-Core

R2-2002569 (draft)CR on TS 36.321 for NR V2X on miscellaneous issues ZTE Corporation, Sanechips draftCR Rel-16 36.321 16.0.0 D 5G\_V2X\_NRSL-Core

R2-2002603 Miscellaneous MAC issues Intel Corporation discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002623 Draft-CR on left issues of 38.321 OPPO draftCR Rel-16 38.321 16.0.0 B 5G\_V2X\_NRSL-Core

R2-2002648 Left issues on MAC running CR OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002809 Remaining issues on NR V2X MAC Design Apple discussion 5G\_V2X\_NRSL-Core

R2-2002831 Remaining Issues on MAC CATT discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002832 Clarification on the impact of configured grant and CSI MAC CE CATT draftCR Rel-16 38.321 16.0.0 5G\_V2X\_NRSL-Core

R2-2002955 Discussion on NR-V2X MAC left issues Fujitsu discussion Rel-16 5G\_V2X\_NRSL-Core R2-2000774

R2-2003025 Clarification for UL/SL prioritization in MAC spec MediaTek Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003026 Remaining MAC issues MediaTek Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003110 MAC left issues Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003112 Correction on mode 2 resource selection procedure and SR configuration for SL CSI report Ericsson CR Rel-16 38.321 16.0.0 0718 - F 5G\_V2X\_NRSL-Core

R2-2003116 Remaining aspects of NR V2X Tx UE behavior Lenovo, Motorola Mobility, Deutsche Telekom, Fraunhofer HHI and Fraunhofer IIS, Continental Automotive GmbH, MediaTek, Bosch discussion 5G\_V2X\_NRSL-Core

R2-2003122 Remaining MAC Issues Lenovo, Motorola Mobility discussion 5G\_V2X\_NRSL-Core

R2-2003224 Groupcast HARQ feedback from RX UE without location information Futurewei discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003240 Remaining MAC Issues for NR V2X Interdigital discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003292 Discussion on LCH selection Fraunhofer HHI, Fraunhofer IIS discussion

R2-2003332 SL groupcast with Option-2 HARQ Nokia, Nokia Shanghai Bell discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003398 Remaining issues for SL-SCH MAC subheader Qualcomm Finland RFFE Oy discussion Rel-16 R2-2001550

R2-2003437 Remaining MAC issues vivo discussion

R2-2003521 Remaining Part of [Offline Disc#704] Identified proposals to V2X MAC LG Electronics Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003522 Report of [Post109e#21] Remaining MAC Issues (LG) LG Electronics Inc. discussion Rel-16 5G\_V2X\_NRSL-Core Late

R2-2003523 [Post109e#22] CR to 38.321 on Corrections to NR sidelink LG Electronics Inc. CR Rel-16 38.321 16.0.0 0730 - F 5G\_V2X\_NRSL-Core Late

R2-2003524 Remaining V2X MAC Issues LG Electronics Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003533 Draft CR to 38.321 for MAC SL-SCH subheader Qualcomm Finland RFFE Oy draftCR Rel-16 38.321 16.0.0 5G\_V2X\_NRSL

R2-2003555 Discussion on remaining MAC Open issues for 5G V2X with NR SL Huawei, Hisilicon discussion

R2-2003556 Draft CR to TS 38.321 on remaining MAC Open issues for 5G V2X with NR SL Huawei, Hisilicon draftCR Rel-16 38.321 16.0.0 5G\_V2X\_NRSL-Core

R2-2003557 Draft CR to TS 38.331 on remaining MAC Open issues for 5G V2X with NR SL Huawei, Hisilicon draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

R2-2003602 Clarification on the impact of configured grant CATT draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

R2-2003640 Draft 38.321 CR on remaining MAC issues vivo draftCR Rel-16 38.321 16.0.0 5G\_V2X\_NRSL

R2-2003736 Discussion on BSR prioritization issue Beijing Xiaomi Mobile Software discussion Late

R2-2003740 Discussion on BSR prioritization issue Beijing Xiaomi Mobile Software discussion

R2-2003757 Summary of MAC open issues for NR sidelink LG Electronics France report Rel-16 5G\_V2X\_NRSL-Core Late

R2-2003776 Draft CR to 38.321 on SL process for reception Qualcomm Finland RFFE Oy draftCR Rel-16 38.321 16.0.0 5G\_V2X\_NRSL-Core

#### 6.4.3.2 Others

Including email discussion [Post109e#19], [Post109e#23], and remaining user plane issues other than MAC, e.g. RLC, PDCP, SDAP, etc. This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting. Summary documents are provided by the corresponding CR rapporteurs (RLC: Ericsson, PDCP: CATT, SDAP: Vivo).

R2-2002566 Discussion on NR V2X remaining user plane issues ZTE Corporation, Sanechips discussion 5G\_V2X\_NRSL-Core

R2-2002570 (draft)CR on TS 38.323 for NR V2X on miscellaneous issues ZTE Corporation, Sanechips draftCR Rel-16 38.323 16.0.0 F 5G\_V2X\_NRSL-Core

R2-2002649 Discussion on PDCP open issues OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002650 38323\_CRyyyy\_(REL-16)\_Correct on PDCP for NR V2X OPPO draftCR Rel-16 38.323 16.0.0 B 5G\_V2X\_NRSL-Core

R2-2002810 Remaining issues on NR V2X PDCP Design Apple discussion 5G\_V2X\_NRSL-Core

R2-2002833 Remaining Issues on PDCP CATT discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2002834 38.323 draftCR for NR V2X CATT draftCR Rel-16 38.323 16.0.0 5G\_V2X\_NRSL-Core

R2-2002861 Left issue on SDAP for NR V2X LG Electronics France discussion Rel-16 37.324 5G\_V2X\_NRSL-Core

R2-2003111 Report for email discussion Pose109e#19 V2X Remaining RLC issue Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003113 Editorial Corrections on SDAP for NR sidelink Ericsson CR Rel-16 37.324 16.0.0 0015 - F 5G\_V2X\_NRSL-Core

R2-2003237 Report on email discussion [Post109e#23][V2X] Remaining RLM/RLF Issue InterDigital discussion Rel-16 5G\_V2X\_NRSL-Core Late

R2-2003238 Draft CR to 38.321 for HARQ-Based RLF at TX UE InterDigital, Kyocera draftCR Rel-16 38.321 16.0.0 5G\_V2X\_NRSL-Core

R2-2003239 Draft CR to 38.331 for HARQ-Based RLF at TX UE Interdigital, Kyocera draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

R2-2003510 Discussion on the SLRB PDCP header format Huawei, HiSilicon discussion

R2-2003511 Draft CR on the PDCP format for NR SL unicast Huawei, HiSilicon draftCR Rel-16 38.323 16.0.0 5G\_V2X\_NRSL

R2-2003512 Draft CR on the PDCP format for NR SL unicast Huawei, HiSilicon draftCR Rel-16 38.323 16.0.0 5G\_V2X\_NRSL Withdrawn

R2-2003535 Draft CR to 38.323 for NR PC5-S and PDCP header Qualcomm Finland RFFE Oy draftCR Rel-16 38.323 16.0.0 5G\_V2X\_NRSL

R2-2003563 RLF based on HARQ operation ITL discussion Rel-16

R2-2003668 Remaining PDCP issues Nokia, Nokia Shanghai Bell discussion 5G\_V2X\_NRSL-Core

R2-2003681 Discussion for SL PDCP open issues Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003682 SL PDCP COUNT wrap around avoidance and initial value of RX\_DELIV Samsung Electronics Co., Ltd draftCR Rel-16 38.323 16.0.0 5G\_V2X\_NRSL-Core

R2-2003683 SL PDCP COUNT wrap around avoidance Samsung Electronics Co., Ltd draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

R2-2003774 Summary of PDCP remaining issues on NR V2X CATT discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2003819 Summary of NR V2X SDAP related contribution vivo discussion Rel-16 5G\_V2X\_NRSL-Core

## 6.5 Optimisations on UE radio capability signalling

(RACS-RAN-Core; leading WG: RAN2; REL-16; started: Mar 19; target; Jun 20; WID: [RP-191088](file:///C:\Data\3GPP\archive\RAN\RAN%2384\Tdocs\RP-191088.zip), SR: RP-200163). Documents in this agenda item will be handled in a break out session.

R2 part is 100%. Only corrections.

Tdoc limitation: 1 per company

### 6.5.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

Contributions in this AI are reserved for WI rapporteur inputs and do not count towards the tdoc limits.

R2-2002725 Work plan for RACS-RAN work item MediaTek Inc., CATT discussion Rel-16

R2-2002726 Work plan for RACS-RAN work item MediaTek Inc., CATT discussion Rel-16 Withdrawn

R2-2003290 Correction to transfer of UE capabilities at HO for RACS (38.331) ZTE Corporation, Ericsson,MediaTek Inc.,Sanechips CR Rel-16 38.331 16.0.0 1553 - F RACS-RAN-Core

R2-2003305 Correction to transfer of UE capabilities at HO for RACS (36.331) MediaTek Inc., Ericsson, ZTE Corporation, Sanechips CR Rel-16 36.331 16.0.0 4256 - F RACS-RAN-Core

### 6.5.2 Corrections

Including contributions/TPs/DraftCRs on RACS-specific Class 3 ASN.1 review aspects, if any. For these, no individual company CRs should be submitted: please consult with the RRC CR rapporteurs first ([Nathan.Tenny@mediatek.com](mailto:Nathan.Tenny@mediatek.com) for 36.331 and [Gao.Yuan66@zte.com.cn](mailto:Gao.Yuan66@zte.com.cn) for 38.331).

R2-2002881 Transfer of segmented UECapabilityInformation by SRB2 Samsung discussion Rel-16 RACS-RAN-Core R2-2000765

R2-2003471 UE capability indication for segmentation Huawei, HiSilicon discussion Rel-16 RACS-RAN-Core R2-2001329

## 6.6 Void

## 6.7 NR Industrial Internet of Things (IoT)

(NR\_IIOT-Core; leading WG: RAN2; REL-16; started: Mar 19; target; Jun 20; WID: [RP-192324](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191561.zip) SR: RP-200165)

Time budget: 3 TU

Tdoc Limitation: 8 tdocs

### 6.7.1 General

Rapporteur input. Incoming LS etc.

[R2-2003166](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003166.zip) Summary of IIOT WI agreements and open issues Nokia (rapporteur) discussion Rel-16 NR\_IIOT

### 6.7.2 RRC Open Issues and Corrections

#### 6.7.2.1 Accurate reference timing

Summary by vivo if needed

* [AT109bis-e][025][IIOT] Accurate Reference Timing (Vivo)

Status: Not yet Started, will be started after on-line session April 21

Scope: Treat topics in 6.7.2.1, open issues and corrections, in particular parts of R2-2003809 that are not treated on-line.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

[R2-2003809](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003809.zip) Summary of 6.7.2.1 Accurate reference timing vivo discussion Rel-16 NR\_IIOT-Core

At least P1 and P2 on-line. Possibly all.

[R2-2002705](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002705.zip) On UE need for time synch Ericsson discussion NR\_IIOT-Core

[R2-2002706](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002706.zip) On encoding of reference time information Ericsson discussion NR\_IIOT-Core

[R2-2002752](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002752.zip) Remaining Issues on Accurate Reference Timing CATT discussion NR\_IIOT-Core

[R2-2002772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002772.zip) UE report of the reference time interest vivo discussion R2-2000489

[R2-2002940](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002940.zip) Reference Timing Delivery of gNB Samsung discussion Rel-16 NR\_IIOT-Core

[R2-2002976](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002976.zip) On-demand SI requesting for reference time information by connected UE OPPO discussion Rel-16 NR\_IIOT-Core

[R2-2002993](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002993.zip) On-demand SI request for RRC connected UEs Huawei, HiSilicon discussion Rel-16 NR\_IIOT-Core Revised

[R2-2003167](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003167.zip) Remaining issues for accurate reference time delivery Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IIOT

[R2-2003294](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003294.zip) FFS on accurate reference timing request ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion Rel-16 NR\_IIOT-Core

[R2-2003397](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003397.zip) ASN.1 improvements for saving 32 bits in reference time in SIB9 Qualcomm Incorporated discussion

[R2-2003404](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003404.zip) Draft CR 1 for On-demand SI request for RRC connected UEs Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_IIOT-Core Late

R2-2003406 Draft CR 2 for On-demand SI request for RRC connected UEs Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_IIOT-Core Late Withdrawn

[R2-2003505](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003505.zip) Remaining Issues for Accurate reference timing CMCC discussion Rel-16 NR\_IIOT-Core

[R2-2003738](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003738.zip) On-demand SI request for RRC connected UEs Huawei, HiSilicon discussion Rel-16 NR\_IIOT-Core [R2-2002993](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002993.zip)

Exceeding tdoc limit – not treated

Moved from 6.0.3:

[R2-2003202](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003202.zip) [E050] Support of SIB9 for on-demand SIB procedure in CONNECTED Ericsson discussion Rel-16 NR\_unlic-Core, 5G\_V2X\_NRSL-Core, NR\_IIOT-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_pos-Core Late

#### 6.7.2.2 Scheduling Enhancements

Summary by CMCC if needed

* [AT109bis-e][026][IIOT] Scheduling Enhancements (CMCC)

Status: Not yet Started, will be started after on-line session April 21

Scope: Treat topics in 6.7.2.2, open issues and corrections, in particular parts of R2-2003497 that are not treated on-line.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC. Result to be merged into CRs in other email discussions (e.g. RRC, possibly MAC).

R2-2003497 Summary of AI 6.7.2.2 IIoT Scheduling Enhancements CMCC (Summary Rapporteur) discussion Rel-16 NR\_IIOT-Core Late

[R2-2002657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002657.zip) Handling of collision between TSN transmission and measurement gap Spreadtrum Communications discussion

[R2-2002663](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002663.zip) Discussion about open issues for CG and SPS Huawei, HiSilicon discussion Rel-16 NR\_IIOT-Core

[R2-2002707](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002707.zip) SPS CG remaining issues Ericsson discussion NR\_IIOT-Core

[R2-2002708](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002708.zip) TSC AI clarifications: meaning of arrival time Ericsson discussion NR\_IIOT-Core R2-2000790

[R2-2002753](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002753.zip) Remaining issues for multiple SPS and CG configurations CATT discussion NR\_IIOT-Core

[R2-2002932](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002932.zip) Split secondary path for split bearer LG Electronics Inc. discussion Rel-16 NR\_IIOT-Core

[R2-2002933](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002933.zip) Absence of duplication state in moreThanTwoRLC LG Electronics Inc. discussion Rel-16 NR\_IIOT-Core

[R2-2002946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002946.zip) Configuration of Configured Grant and Semi-Persistent Scheduling Samsung discussion Rel-16 NR\_IIOT-Core

[R2-2003168](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003168.zip) Periodicities of multiple of 2 or 7 symbols for CG Nokia, Nokia Shanghai Bell, Ericsson, NTT Docomo discussion Rel-16 NR\_IIOT

[R2-2003169](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003169.zip) Determining the ‘closest N’ for CG Type-1 initialization Nokia, Nokia Shanghai Bell draftCR Rel-16 38.321 16.0.0 NR\_IIOT

[R2-2003504](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003504.zip) RRC Open Issues for Scheduling Enhancements CMCC discussion Rel-16 NR\_IIOT-Core

[R2-2003586](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003586.zip) Remaining issues on configured grant type 1 resources calculation ZTE, Sanechips discussion Rel-16 NR\_IIOT-Core

Exceeding tdoc limit – not treated

[R2-2002709](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002709.zip) Draft LS: TSC AI clarifications for arrival time Ericsson LS out NR\_IIOT-Core R2-2000791 To:SA2

#### 6.7.2.3 Other

NOTE specific RRC issues to be submitted here, also for EHC, PDCP duplication, intra-UE prioritization and multiplexing etc.

Summary if needed, issues coord, and RRC CR by Ericsson

* [AT109bis-e][027][IIOT] RRC (Ericsson)

Status: Started

Scope: Treat topics in 6.7.2.3, include to make CRs.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

Part 2: RRC CRs implementing IIOT decisions from this meeting.

R2-2002703 Correction of NR IIOT Ericsson draftCR Rel-16 38.331 16.0.0 NR\_IIOT-Core Late

R2-2002704 Correction of NR IIOT Ericsson draftCR Rel-16 36.331 16.0.0 NR\_IIOT-Core Late

[R2-2002754](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002754.zip) DraftCR of RRC Open Issues CATT draftCR Rel-16 38.331 16.0.0 NR\_IIOT-Core

[R2-2002974](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002974.zip) Draft-CR on RRC open issues of 38.331 OPPO draftCR Rel-16 38.331 16.0.0 F NR\_IIOT-Core

[R2-2002975](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002975.zip) Draft-CR on split transmission of 38.323 OPPO draftCR Rel-16 38.323 16.0.0 F NR\_IIOT-Core

[R2-2003377](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003377.zip) Draft CR on introduction of EHC in LTE Huawei, HiSilicon draftCR Rel-16 36.331 16.0.0 NR\_IIOT-Core

[R2-2003526](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003526.zip) SPS Ack configuration in RRC Qualcomm Incorporated discussion

### 6.7.3 MAC Open Issues and Corrections

#### 6.7.3.1 Intra-UE prioritization and multiplexing

Resource conflicts between dynamic grant (DG) and configured grant (CG) PUSCH and conflicts involving multiple CGs. UL data/control and control/control resource collision according to WID.

Including outcome of the email discussion [Post109e#50][IIOT] Remaining issues intra-UE prioritization (Nokia). On intra-UE prioritization open issues only the email discussion in planned to be treated.

* [AT109bis-e][028][IIOT] Intra-UE prioritization and MAC (Nokia, Samsung)

Scope: Treat topics in 6.7.3.1, based on R2-2003226, started after on-line session April 21 (Nokia) and treat topics in 6.7.3.2 (that do not overlap with 6.7.1), based on R2-2003124, and R2-2002847, started immediately (Samsung).

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC (Nokia, Samsung)

Part 2: Agreeable CR (Samsung)

[R2-2003226](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003226.zip) Summary of e-mail discussion: [Post109e#50][IIOT] Remaining issues intra-UE prioritization Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IIOT-Core

[R2-2002710](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002710.zip) Remaining issues on intra-UE prioritization and multiplexing Ericsson discussion NR\_IIOT-Core

[R2-2002774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002774.zip) Transmission of Deprioritized PDU after CG Change vivo discussion

R2-2002775 Clarification on the intra-UE prioritization per UE or per cell vivo discussion Withdrawn

[R2-2002777](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002777.zip) Clarification on the generation of the two MAC PDUs vivo discussion

[R2-2002778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002778.zip) Discussion on the deprioritized CG vivo discussion

[R2-2002779](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002779.zip) Remaining issues for SR and PUSCH collision vivo discussion R2-2000497

[R2-2002877](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002877.zip) Align the Priority Handling for overlapping UL Grants between MAC and PHY Sharp discussion Rel-16

[R2-2002941](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002941.zip) Priority of SR Triggered by MAC CE Samsung discussion Rel-16 NR\_IIOT-Core

[R2-2002971](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002971.zip) Discussion on two MAC PDUs with the same L1 priority OPPO, ZTE Corporation, Sanechips discussion Rel-16 NR\_IIOT-Core

[R2-2002972](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002972.zip) Draft LS on two MAC PDUs with the same L1 priority OPPO discussion Rel-16 NR\_IIOT-Core

[R2-2003003](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003003.zip) Consideration on grant priority determination with MAC CE LG Electronics Inc. discussion Rel-16 NR\_IIOT-Core

[R2-2003023](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003023.zip) Consideration on delayed CG confirmation MAC CE LG Electronics Polska discussion Rel-16 38.321 NR\_IIOT-Core

[R2-2003027](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003027.zip) Consideration on sharing HARQ process in IIoT LG Electronics Polska discussion Rel-16 NR\_IIOT-Core

[R2-2003363](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003363.zip) MAC handling of dropped SRs InterDigital, Inc. discussion Rel-16 NR\_IIOT-Core

[R2-2003590](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003590.zip) Discussion on the intra-UE collision case involving the Msg.3 ZTE, Sanechips, OPPO discussion Rel-16 NR\_IIOT-Core

[R2-2003591](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003591.zip) Remaining issue on the collision between SR and PUSCH ZTE, Sanechips discussion Rel-16 NR\_IIOT-Core

[R2-2003592](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003592.zip) Remaining issues on HARQ conflict between configured grant and dynamic grant ZTE, Sanechips discussion Rel-16 NR\_IIOT-Core

[R2-2003647](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003647.zip) Prioritization between CG and uplink grant for Msg3 or MSGA payload ASUSTeK discussion Rel-16 38.321 NR\_IIOT-Core

[R2-2003648](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003648.zip) Handling UL grant prioritization with non-overlapping PUSCH duration ASUSTeK discussion Rel-16 NR\_IIOT-Core

[R2-2002942](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002942.zip) Remaining Issues on Intra-UE Prioritization Samsung discussion Rel-16 NR\_IIOT-Core

[R2-2002945](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002945.zip) De-prioritization by Other Deprioritized Grants Samsung discussion Rel-16 NR\_IIOT-Core

#### 6.7.3.2 Other

Summary if needed and MAC CR by Samsung.

Treatment by email, see above

[R2-2003124](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003124.zip) Summary of MAC Open Issues and Corrections Samsung discussion Rel-16 NR\_IIOT-Core Late

Moved from 6.7.1:

[R2-2002947](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002947.zip) Correction for NR IIOT in 38.321 Samsung CR Rel-16 38.321 16.0.0 0712 - F NR\_IIOT-Core

[R2-2003225](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003225.zip) Autonomous transmission during BWP switch Lenovo, Motorola Mobility discussion Rel-16 NR\_IIOT-Core

### 6.7.4 PDCP Open Issues and Corrections

#### 6.7.4.1 PDCP Duplication

Summary if needed and PDCP CR by LG

* [AT109bis-e][029][IIOT] PDCP Duplication and CRs (LG)

Scope: Treat topics in 6.7.4.1, based on R2-2003772, and make CR,

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC, For P1 P2 P7 discussion expected to start after on-line session April 21. Discussion on other proposals/issues can start immediately.

Part 2: Implement this meetings agreements in CR

[R2-2003772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003772.zip) Summary of A.I. 6.7.4.1 PDCP Duplication LG Electronics Inc. (Summary rapporteur) report Rel-16 NR\_IIOT-Core

Treat at least P1 and P2 online. Decide if to address P7.

[R2-2002656](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002656.zip) Discussion on efficient PDCP duplication base on configuration of gNB Spreadtrum Communications discussion

[R2-2002711](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002711.zip) PDCP duplication open issues Ericsson discussion NR\_IIOT-Core

[R2-2002755](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002755.zip) Discussion on the Rel-15 Duplication MAC CE CATT discussion NR\_IIOT-Core R2-2000117

[R2-2002756](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002756.zip) Leftovers of PDCP Duplication CATT discussion NR\_IIOT-Core

[R2-2002757](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002757.zip) Discussion on LCH-to-Cell Restriction in Rel-16 PDCP Duplication CATT discussion NR\_IIOT-Core

[R2-2002776](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002776.zip) Discussion on the Rel-15 PDCP duplication MAC CE vivo discussion

[R2-2002817](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002817.zip) Open issues for PDCP Duplication Enhancements Apple discussion NR\_IIOT-Core R2-2000597

[R2-2002862](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002862.zip) PDCP duplication states of the associated RLC entities when duplicationState is absent Sharp discussion Rel-16

[R2-2002934](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002934.zip) Use of Rel-15 Duplication MAC CE LG Electronics Inc. discussion Rel-16 NR\_IIOT-Core

[R2-2002935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002935.zip) Issues when all secondary RLC entities are deactivated LG Electronics Inc. discussion Rel-16 NR\_IIOT-Core

[R2-2002943](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002943.zip) Open Issues on PDCP Duplication Samsung discussion Rel-16 NR\_IIOT-Core

[R2-2002956](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002956.zip) R15 MAC CE duplication on/off for R16 duplication on/off Fujitsu discussion Rel-16 NR\_IIOT-Core R2-2000776

[R2-2002977](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002977.zip) Coexist of R15 and R16 duplication (de-)activation MAC CE OPPO discussion Rel-16 NR\_IIOT-Core

[R2-2002978](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002978.zip) Application of Rel-15 MAC CE on Rel-16 duplication OPPO draftCR Rel-16 38.321 16.0.0 F NR\_IIOT-Core

[R2-2002995](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002995.zip) Open issues on PDCP duplication enhancements Huawei, HiSilicon discussion Rel-16 NR\_IIOT-Core

[R2-2003095](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003095.zip) Reuse R15 MAC CE on/off for R16 duplication Lenovo, Motorola Mobility discussion Rel-16

[R2-2003227](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003227.zip) Remaining Issues for PDCP Duplication Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IIOT-Core

[R2-2003320](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003320.zip) Remaining issues in PDCP duplication enhancements Intel Corporation discussion Rel-16 NR\_IIOT-Core

[R2-2003506](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003506.zip) Remaining Issues for PDCP Duplication CMCC discussion Rel-16 NR\_IIOT-Core

[R2-2003587](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003587.zip) Remaining issues on enhanced PDCP duplication ZTE, Sanechips discussion Rel-16 NR\_IIOT-Core

### 6.7.4.2 Ethernet Header Compression

Summary if needed by Intel

This Ai is assumed to be treated by email.

* [AT109bis-e][030][IIOT] Ethernet Header Compression (Intel)

Scope: Treat topics in 6.7.4.2, based on R2-2003782 and comments.

Part 1: Determine which issues that need resolution, find agreeable proposals, can consider attempt to agree TP. Deadline: April 24 0700 UTC. Result to be merged to PDCP CRs.

[R2-2003782](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003782.zip) Summary on Ethernet Header Compression Intel Corporation discussion 6.7.4.2 Ethernet Header Compression

[R2-2003172](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003172.zip) Clarification on Ethernet frame handling by EHC Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IIOT

[R2-2002669](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002669.zip) EHC absence of Q-Tags and NACK feedback Sony discussion Rel-16 NR\_IIOT-Core R2-2000834

[R2-2002712](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002712.zip) Remaining EHC issues Ericsson discussion NR\_IIOT-Core

[R2-2002718](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002718.zip) Discussion about remaining issues of EHC Huawei, HiSilicon discussion Rel-16 NR\_IIOT-Core

[R2-2002758](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002758.zip) The Remaining Issues on EHC CATT discussion NR\_IIOT-Core

[R2-2002773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002773.zip) Reserved value in the EHC header vivo discussion

[R2-2002908](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002908.zip) Leftover issues for EHC Samsung discussion NR\_IIOT\_URLLC\_enh

[R2-2002936](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002936.zip) Length of CID field in EHC header LG Electronics Inc. discussion Rel-16 NR\_IIOT-Core

[R2-2002973](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002973.zip) Discussion on EHC format OPPO discussion Rel-16 NR\_IIOT-Core

[R2-2003171](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003171.zip) EHC remaining issues Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IIOT

[R2-2003296](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003296.zip) Remaining issues for EHC in TSC ZTE Corporation, Sanechips discussion Rel-16 NR\_IIOT-Core

[R2-2003321](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003321.zip) Remaining issues in Ethernet header compression Intel Corporation discussion Rel-16 NR\_IIOT-Core

Moved from 6.7.5:

[R2-2003755](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003755.zip) On reserved bit in EHC header Qualcomm Incorporated discussion

R2-2003758 Remaining issue for EHC NTT DOCOMO INC. discussion NR\_IIOT-Core Late

### 6.7.5 Stage-2 Corrections

Summary if needed and 38300 CR by Nokia

This AI is not treated at this meeting, Discussions are postponed.

[R2-2002994](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002994.zip) PDCP duplication terminology definition and impacts to cell restriction Huawei, HiSilicon draftCR Rel-16 38.300 16.1.0 NR\_IIOT-Core

R2-2003170 Stage-2 updates for IIOT Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.1.0 0215 - F NR\_IIOT Late

[R2-2003534](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003534.zip) Introduction of IIOT features to TS 37.340 Huawei, HiSilicon CR Rel-16 37.340 16.1.0 0195 - B NR\_IIOT-Core

### 6.7.6 UE capabilities

Summary if needed and running 38306 CR by Nokia

* [AT109bis-e][031][IIOT] UE capabilities (Nokia)

Scope: Treat topics in 6.7.6, based on R2-2003793 and comments.

Part 1: Determine which issues that need resolution, find agreeable proposals, can consider TP. Deadline: April 24 0700 UTC.

Part 2: Running CRs (for 38.306, 36.306, 38.822?)

R2-2003793 Summary of 6.7.6 UE capabilities for IIOT Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IIOT-Core

[R2-2003174](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003174.zip) UE radio access capabilities introduction for NR IIOT WI Nokia, Nokia Shanghai Bell draftCR Rel-16 38.306 16.0.0 B NR\_IIOT

[R2-2003175](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003175.zip) UE feature list introduction for NR IIOT WI Nokia, Nokia Shanghai Bell draftCR Rel-16 38.822 15.0.1 B NR\_IIOT

[R2-2002713](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002713.zip) UE capability for IIoT Ericsson discussion NR\_IIOT-Core

[R2-2002759](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002759.zip) Remaining issues for UE capabilities CATT discussion NR\_IIOT-Core

[R2-2002815](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002815.zip) Discussion on DRBs Supported with Rel16 PDCP Duplication Enhancement Apple discussion NR\_IIOT-Core

[R2-2002816](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002816.zip) DRBs Supported with Rel16 PDCP Duplication Enhancement Apple CR Rel-16 38.306 16.0.0 0276 - F NR\_IIOT-Core

[R2-2002944](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002944.zip) UE Capability for IIOT Samsung discussion Rel-16 NR\_IIOT-Core

[R2-2003173](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003173.zip) UE feature list and capabilities remaining issues Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IIOT

[R2-2003174](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003174.zip) UE radio access capabilities introduction for NR IIOT WI Nokia, Nokia Shanghai Bell draftCR Rel-16 38.306 16.0.0 B NR\_IIOT

[R2-2003175](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003175.zip) UE feature list introduction for NR IIOT WI Nokia, Nokia Shanghai Bell draftCR Rel-16 38.822 15.0.1 B NR\_IIOT

[R2-2003322](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003322.zip) Remaining issues in IIoT UE capability Intel Corporation discussion Rel-16 NR\_IIOT-Core

[R2-2003503](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003503.zip) RRC Open Issues for UE capabilities CMCC discussion Rel-16 NR\_IIOT-Core

[R2-2003732](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003732.zip) Open issues in Intra-UE prioritization capability Qualcomm Incorporated discussion

Exceeding tdoc limitation – not treated

[R2-2003315](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003315.zip) Draft CR on introduction of miscellaneous EHC capabilities in LTE Huawei, HiSilicon draftCR Rel-16 36.306 16.0.0 NR\_IIOT-Core

## 6.8 NR Positioning Support

(NR\_pos-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Jun 20; WID: [RP-](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191156.zip)200218, SR: RP-200217). Documents in this agenda item will be handled in a break out session

Time budget: 1 TU

### 6.8.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

[R2-2002520](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002520.zip) LS on outcome of email discussions on aperiodic SRS for positioning configuration from RAN1#100e (R1-2001483; contact: Ericsson) RAN1 LS in Rel-16 NR\_pos To:RAN2

[R2-2002529](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002529.zip) LS on gNB measurements report mapping for NR Positioning (R4-2002280; contact: Qualcomm) RAN4 LS in Rel-16 NR\_pos-Core To:RAN2, RAN3 Cc:RAN1

[R2-2003316](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003316.zip) Discussion on capabilities for NR positioning Intel Corporation discussion Rel-16 NR\_pos-Core Late

[R2-2003317](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003317.zip) Introduction of UE positioning capabilities Intel Corporation draftCR Rel-16 37.355 16.0.0 NR\_pos-Core Late

### 6.8.2 Architecture and protocol aspects

No documents should be submitted to 6.8.2. Please submit to 6.8.2.x.

#### 6.8.2.1 Stage 2

Including impact to 36.305 and 38.305. This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on submitted tdocs).

Including outcome of email discussion [Post109e#30][NR/Pos] Non-periodic SRS for positioning (Huawei)

Including outcome of email discussion [Post109e#31][NR/Pos] Details of spatial relation for positioning (Huawei)

Contributions on issues already resolved in email discussions [Post109e#30] and [Post109e#31] are discouraged.

Tdoc limitation: 1 tdoc

[R2-2002914](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002914.zip) Clarification on UE Positioning Architecture in 38.305 for Rel-16 CATT draftCR Rel-16 38.305 16.0.0 B NR\_pos-Core

[R2-2002939](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002939.zip) Discussion on reusing Rel-15 SRS for Multi-RTT ZTE Corporation discussion

[R2-2003054](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003054.zip) DraftLS\_RAN3\_non-periodicSRSPositioning Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2003055](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003055.zip) DraftCR for SSB configuration in LPP spec Huawei, HiSilicon draftCR Rel-16 37.355 16.0.0 NR\_pos-Core

[R2-2003056](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003056.zip) DraftCR for SSB configuration in RRC spec Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core

[R2-2003057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003057.zip) DraftLS\_RAN3\_On Spatial relations for positioning Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2003060](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003060.zip) Text proposal to stage-2 specification Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2003068](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003068.zip) [Post109e-30][NRPos] Non-periodic SRS for positioning (Huawei) Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2003069](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003069.zip) [Post109e-31][Pos] Details of spatial relation for positioning (Huawei) Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2003348](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003348.zip) Various Corrections to NR Positioning Qualcomm Incorporated discussion

[R2-2003396](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003396.zip) Text Proposal to clarify the meaning of GNSS term ESA, Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_pos-Core

[R2-2003620](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003620.zip) Summary document for agenda item 6.8.2.1 - NR Positioning Stage 2 Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_pos-Core Late

[R2-2003731](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003731.zip) On supporting of non-periodic SRS for positioning Samsung R&D Institute UK discussion

#### 6.8.2.2 RRC

Including impact to 36.331 and 38.331. This agenda item will utilize a summary document to facilitate treatment of topics during the e-meeting.

Tdoc limitation: 1 tdoc

[R2-2002598](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002598.zip) Broadcast of additional assistance data NextNav, AT&T, FirstNet, Intel, Polaris Wireless CR Rel-16 38.331 16.0.0 1508 - C NR\_pos, NR\_pos-Core

[R2-2002617](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002617.zip) Discussion on GAP configuration and request for NR positioning vivo discussion Rel-16 NR\_pos-Core

[R2-2003059](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003059.zip) DraftCR on LocationMeasurementIndication Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core

[R2-2003136](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003136.zip) Recommendation message from LMF to gNB for SRS configuration Ericsson discussion Rel-16

[R2-2003137](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003137.zip) UL SRS UE Capability Ericsson discussion

[R2-2003729](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003729.zip) SSB configuration for DL-/UL-only method in RRC Samsung R&D Institute UK discussion

[R2-2003769](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003769.zip) Summary of agenda item 6.8.2.2 for RRC Huawei discussion Rel-16 NR\_pos-Core

#### 6.8.2.3 LPP

This agenda item will utilize a summary document to facilitate treatment of topics during the e-meeting. Note that documents on specific ASN.1 issues should be submitted to AI 6.8.2.4.

Tdoc limitation: 1 tdoc

[R2-2002938](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002938.zip) Discussion on additional path reporting ZTE Corporation discussion

[R2-2003061](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003061.zip) Remaining issues with LPP Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2003130](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003130.zip) Measurement Reporting for UE based positioning Ericsson discussion Rel-16

[R2-2003318](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003318.zip) Handling on TRP-ID Intel Corporation discussion Rel-16 NR\_pos-Core

[R2-2003730](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003730.zip) UE Rx – Tx time difference definition in LPP Samsung R&D Institute UK discussion

#### 6.8.2.4 LPP ASN.1 issues

Any issues related only to the details of ASN.1 in 37.355. CRs should not be submitted to this agenda item except by the specification rapporteur.

The ASN.1 review process for LPP will proceed from company contributions in this meeting. Issues should be submitted under this agenda item and will be collected by the specification rapporteur. The review process will proceed by email after this meeting with issues to be concluded at RAN2#110-e.

[R2-2002915](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002915.zip) Clarification on SFN0-Offset and DL-AoD report in LPP ASN.1 CATT draftCR Rel-16 37.355 16.0.0 B NR\_pos-Core

[R2-2003066](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003066.zip) DraftCR for NR-DL-PRS-Config Huawei, HiSilicon draftCR Rel-16 37.355 16.0.0 NR\_pos-Core

[R2-2003067](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003067.zip) Miscellaneous Corrections to LPP ASN.1 Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2003143](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003143.zip) Overhead in current structure Ericsson discussion Rel-16

[R2-2003144](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003144.zip) Important LPP structural aspects Ericsson discussion Rel-16

[R2-2003349](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003349.zip) Various Corrections to NR Positioning Qualcomm Incorporated discussion

[R2-2003350](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003350.zip) LPP clean-up Qualcomm Incorporated discussion Rel-16 NR\_pos-Core Late

#### 6.8.2.5 MAC

Including impact to 38.321.

Tdoc limitation: 1 tdoc

[R2-2002618](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002618.zip) Discussion on the impact of DRX on SRS for NR positioning vivo discussion Rel-16 NR\_pos-Core

[R2-2003062](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003062.zip) Correction to SP SRS actication deactivation MAC CE Huawei, HiSilicon draftCR Rel-16 38.321 16.0.0 NR\_pos-Core

[R2-2003063](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003063.zip) Runnnig CR to MAC spec for R16 Positioning Huawei, HiSilicon draftCR Rel-16 38.321 16.0.0 NR\_pos-Core

=> Revised in [R2-2003768](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003768.zip)

[R2-2003768](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003768.zip) Running CR to MAC spec for R16 Positioning Huawei, HiSilicon draftCR Rel-16 38.321 16.0.0 NR\_pos-Core

[R2-2003135](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003135.zip) Change LCID to eLCID for SP Positioning SRS Activation/Deactivation MAC CE Ericsson CR Rel-16 38.321 16.0.0 0720 - F NR\_pos-Core

#### 6.8.2.6 Broadcast assistance data

This agenda item will utilize a summary document to facilitate treatment of topics during the e-meeting.

Tdoc limitation: 1 tdoc

[R2-2002916](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002916.zip) Summary of the agreement and left issues on Broadcast Assistance Data CATT discussion Rel-16 38.331 NR\_pos-Core

[R2-2003058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003058.zip) DraftCR for on-demand SI request for positioning Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core

[R2-2003132](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003132.zip) On the need of unicast tag for positioning si-BroadcastStatus Ericsson discussion Rel-16

[R2-2003607](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003607.zip) Summary for Broadcast of Assistance Data CATT discussion Late

#### 6.8.2.7 UE-based positioning

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on submitted tdocs).

Tdoc limitation: 1 tdoc

[R2-2003064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003064.zip) Discussion on UE-based positioning Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2003145](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003145.zip) Remaining issues with NR RAT dependent UE-based positioning Ericsson discussion Rel-16

### 6.8.3 Other

Tdoc limitation: 1 tdoc

[R2-2003065](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2003065.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003065.zip) Discussion on UL-ECID Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2003376](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003376.zip) On UE RxTx Measurements Ericsson discussion Rel-16

## 6.8 NR Positioning Support

(NR\_pos-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Jun 20; WID: [RP-](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191156.zip)200218, SR: RP-200217). Documents in this agenda item will be handled in a break out session

Time budget: 1 TU

### 6.8.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

R2-2002520 LS on outcome of email discussions on aperiodic SRS for positioning configuration from RAN1#100e (R1-2001483; contact: Ericsson) RAN1 LS in Rel-16 NR\_pos To:RAN2

R2-2002529 LS on gNB measurements report mapping for NR Positioning (R4-2002280; contact: Qualcomm) RAN4 LS in Rel-16 NR\_pos-Core To:RAN2, RAN3 Cc:RAN1

R2-2003316 Discussion on capabilities for NR positioning Intel Corporation discussion Rel-16 NR\_pos-Core Late

R2-2003317 Introduction of UE positioning capabilities Intel Corporation draftCR Rel-16 37.355 16.0.0 NR\_pos-Core Late

### 6.8.2 Architecture and protocol aspects

No documents should be submitted to 6.8.2. Please submit to 6.8.2.x.

#### 6.8.2.1 Stage 2

Including impact to 36.305 and 38.305. This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on submitted tdocs).

Including outcome of email discussion [Post109e#30][NR/Pos] Non-periodic SRS for positioning (Huawei)

Including outcome of email discussion [Post109e#31][NR/Pos] Details of spatial relation for positioning (Huawei)

Contributions on issues already resolved in email discussions [Post109e#30] and [Post109e#31] are discouraged.

Tdoc limitation: 1 tdoc

R2-2002914 Clarification on UE Positioning Architecture in 38.305 for Rel-16 CATT draftCR Rel-16 38.305 16.0.0 B NR\_pos-Core

R2-2002939 Discussion on reusing Rel-15 SRS for Multi-RTT ZTE Corporation discussion

R2-2003054 DraftLS\_RAN3\_non-periodicSRSPositioning Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

R2-2003055 DraftCR for SSB configuration in LPP spec Huawei, HiSilicon draftCR Rel-16 37.355 16.0.0 NR\_pos-Core

R2-2003056 DraftCR for SSB configuration in RRC spec Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core

R2-2003057 DraftLS\_RAN3\_On Spatial relations for positioning Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

R2-2003060 Text proposal to stage-2 specification Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

R2-2003068 [Post109e-30][NRPos] Non-periodic SRS for positioning (Huawei) Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

R2-2003069 [Post109e-31][Pos] Details of spatial relation for positioning (Huawei) Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

R2-2003348 Various Corrections to NR Positioning Qualcomm Incorporated discussion

R2-2003396 Text Proposal to clarify the meaning of GNSS term ESA, Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_pos-Core

R2-2003620 Summary document for agenda item 6.8.2.1 - NR Positioning Stage 2 Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_pos-Core Late

R2-2003731 On supporting of non-periodic SRS for positioning Samsung R&D Institute UK discussion

#### 6.8.2.2 RRC

Including impact to 36.331 and 38.331. This agenda item will utilize a summary document to facilitate treatment of topics during the e-meeting.

Tdoc limitation: 1 tdoc

R2-2002598 Broadcast of additional assistance data NextNav, AT&T, FirstNet, Intel, Polaris Wireless CR Rel-16 38.331 16.0.0 1508 - C NR\_pos, NR\_pos-Core

R2-2002617 Discussion on GAP configuration and request for NR positioning vivo discussion Rel-16 NR\_pos-Core

R2-2003059 DraftCR on LocationMeasurementIndication Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core

R2-2003136 Recommendation message from LMF to gNB for SRS configuration Ericsson discussion Rel-16

R2-2003137 UL SRS UE Capability Ericsson discussion

R2-2003729 SSB configuration for DL-/UL-only method in RRC Samsung R&D Institute UK discussion

R2-2003769 Summary of agenda item 6.8.2.2 for RRC Huawei discussion Rel-16 NR\_pos-Core

#### 6.8.2.3 LPP

This agenda item will utilize a summary document to facilitate treatment of topics during the e-meeting. Note that documents on specific ASN.1 issues should be submitted to AI 6.8.2.4.

Tdoc limitation: 1 tdoc

R2-2002938 Discussion on additional path reporting ZTE Corporation discussion

R2-2003061 Remaining issues with LPP Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

R2-2003130 Measurement Reporting for UE based positioning Ericsson discussion Rel-16

=> Revised in R2-2003811

R2-2003811 Measurement Reporting for UE based positioning Ericsson, Deutsche Telekom discussion Rel-16

=> Revised in R2-2003822

R2-2003822 Measurement Reporting for UE based positioning Ericsson, Deutsche Telekom discussion Rel-16 NR\_pos-Core

R2-2003318 Handling on TRP-ID Intel Corporation discussion Rel-16 NR\_pos-Core

R2-2003730 UE Rx – Tx time difference definition in LPP Samsung R&D Institute UK discussion

R2-2003783 Summary of LPP agenda item 6.8.2.3 Qualcomm Incorporated discussion Rel-16 NR\_pos-Core

#### 6.8.2.4 LPP ASN.1 issues

Any issues related only to the details of ASN.1 in 37.355. CRs should not be submitted to this agenda item except by the specification rapporteur.

The ASN.1 review process for LPP will proceed from company contributions in this meeting. Issues should be submitted under this agenda item and will be collected by the specification rapporteur. The review process will proceed by email after this meeting with issues to be concluded at RAN2#110-e.

R2-2002915 Clarification on SFN0-Offset and DL-AoD report in LPP ASN.1 CATT draftCR Rel-16 37.355 16.0.0 B NR\_pos-Core

R2-2003066 DraftCR for NR-DL-PRS-Config Huawei, HiSilicon draftCR Rel-16 37.355 16.0.0 NR\_pos-Core

R2-2003067 Miscellaneous Corrections to LPP ASN.1 Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

R2-2003143 Overhead in current structure Ericsson discussion Rel-16

R2-2003144 Important LPP structural aspects Ericsson discussion Rel-16

R2-2003349 Various Corrections to NR Positioning Qualcomm Incorporated discussion

R2-2003350 LPP clean-up Qualcomm Incorporated discussion Rel-16 NR\_pos-Core Late

R2-2003781 CR 37.355 V16.0.0, Corrections to the introduction of NR positioning Ericsson CR Rel-16 37.355 16.0.0 0256 - F NR\_pos-Core

#### 6.8.2.5 MAC

Including impact to 38.321.

Tdoc limitation: 1 tdoc

R2-2002618 Discussion on the impact of DRX on SRS for NR positioning vivo discussion Rel-16 NR\_pos-Core

R2-2003062 Correction to SP SRS actication deactivation MAC CE Huawei, HiSilicon draftCR Rel-16 38.321 16.0.0 NR\_pos-Core

R2-2003063 Runnnig CR to MAC spec for R16 Positioning Huawei, HiSilicon draftCR Rel-16 38.321 16.0.0 NR\_pos-Core

=> Revised in R2-2003768

R2-2003768 Running CR to MAC spec for R16 Positioning Huawei, HiSilicon draftCR Rel-16 38.321 16.0.0 NR\_pos-Core

R2-2003135 Change LCID to eLCID for SP Positioning SRS Activation/Deactivation MAC CE Ericsson CR Rel-16 38.321 16.0.0 0720 - F NR\_pos-Core

#### 6.8.2.6 Broadcast assistance data

This agenda item will utilize a summary document to facilitate treatment of topics during the e-meeting.

Tdoc limitation: 1 tdoc

R2-2002916 Summary of the agreement and left issues on Broadcast Assistance Data CATT discussion Rel-16 38.331 NR\_pos-Core

R2-2003058 DraftCR for on-demand SI request for positioning Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 NR\_pos-Core

R2-2003132 On the need of unicast tag for positioning si-BroadcastStatus Ericsson discussion Rel-16

=> Revised in R2-2003810

R2-2003810 On the need of unicast tag for positioning si-BroadcastStatus Ericsson, Deutsche Telekom discussion Rel-16

R2-2003607 Summary for Broadcast of Assistance Data CATT discussion Late

#### 6.8.2.7 UE-based positioning

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on submitted tdocs).

Tdoc limitation: 1 tdoc

R2-2003064 Discussion on UE-based positioning Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

R2-2003145 Remaining issues with NR RAT dependent UE-based positioning Ericsson discussion Rel-16

### 6.8.3 Other

Tdoc limitation: 1 tdoc

R2-2003065 Discussion on UL-ECID Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

R2-2003376 On UE RxTx Measurements Ericsson discussion Rel-16

## 6.9 NR mobility enhancements

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; target; Mar 20; WID: RP-192277). Documents in this agenda item will be handled in a break out session

No documents should be submitted to 6.9.

Treated together with 7.3,

A web conference may be used for handling some of the discussions in this WI, and summary document may be provided for some agenda items under 6.9.

### 6.9.1 Organisational

Including incoming LSs, running CRs, rapporteur inputs, etc

R2-2002744 Corrections to Mobility Enhancements Nokia, Intel Corporation (Rapporteurs) CR Rel-16 38.300 16.1.0 0211 - F NR\_Mob\_enh-Core

R2-2003043 PDCP CR on correction and outcome of [Post109e#11] for DAPS handover Huawei, HiSilicon, Mediatek Inc. CR Rel-16 38.323 16.0.0 0045 - C NR\_Mob\_enh-Core

R2-2003044 PDCP CR on correction and outcome of [Post109e#11] for DAPS handover Huawei, HiSilicon, Mediatek Inc. CR Rel-16 36.323 16.0.0 0282 - C LTE\_feMob-Core

R2-2003368 UE Capability for Rel-16 NR mobility enhancement Intel Corporation draftCR Rel-16 38.306 16.0.0 NR\_Mob\_enh-Core R2-2001092

R2-2003369 UE Capability for Rel-16 NR mobility enhancement Intel Corporation draftCR Rel-16 38.331 16.0.0 NR\_Mob\_enh-Core

### 6.9.2 Reduction in user data interruption during DAPS handover

Contributions on DAPS handovers for LTE and NR are treated jointly in under 7.3.2. Do not use this AI for any item that can be discussed jointly - This AI shall only address NR-specific topics.

Including remaining details (if any) on SDAP handling during DAPS handover.

Tdoc Limitation per company: 1 tdoc (only for NR-specific topics like SDAP that do NOT affect LTE).

R2-2002589 RoHC handling during DAPS handover without key change Ericsson discussion Rel-16 NR\_Mob\_enh-Core R2-2000126

R2-2002799 Non-DAPS DRB Handling when fallback to source Apple discussion NR\_Mob\_enh-Core

R2-2002863 Discussion on consecutive ROHC failure LG Electronics Inc. discussion NR\_Mob\_enh-Core

R2-2003042 Discussion on DAPS HO without key change Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

### 6.9.3 Conditional handover and fast handover failure recovery

Contributions on conditional handover for LTE and NR are treated jointly under 6.9.3 except where otherwise noted.

No documents should be submitted to 6.9.3. Please submit to 6.9.3.x

#### 6.9.3.1 Open issues and corrections for conditional handover

This AI jointly addresses NR and LTE.

Including outcome of email discussion [Post109e#12][MOB] Resolving open issues for CHO (Nokia)

Tdoc Limitation per company: 1 tdoc.

Contributions on issues already resolved by the email discussion [Post109e#12][MOB] are discouraged.

R2-2002748 On measurement and evaluation during CHO execution Futurewei discussion Rel-16 NR\_Mob\_enh-Core

R2-2002900 T304 running issue when CHO Execution LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core R2-2001535

R2-2002951 Discussion of some remaining issues for CHO OPPO discussion Rel-16 NR\_Mob\_enh-Core

R2-2002996 Corrections to conditional reconfiguration evaluation PANASONIC R&D Center Germany draftCR Rel-16 38.331 16.0.0 A NR\_Mob\_enh-Core

R2-2003035 CHO and MR-DC operation Ericsson discussion NR\_Mob\_enh-Core

R2-2003105 E-mail discussion report [Post109e#12][MOB] Resolving open issues for CHO Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core

R2-2003106 MCG recovery versus recovery via CHO - Rel-16 impact Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core

R2-2003260 Further details of CHO configuration and execution China Telecom discussion Rel-16

R2-2003333 Clarification on source reconfigiration during CHO Samsung CR Rel-16 38.300 16.1.0 0216 - F NR\_Mob\_enh-Core

R2-2003422 Further consideration on conventional HO overriding a CHO command ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

R2-2003577 Discussion on leftovers for CHO Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

R2-2003609 UE configuration release in RRC reestbalishment SHARP discussion NR\_Mob\_enh-Core, LTE\_feMob-Core

#### 6.9.3.2 Open issues and corrections for fast handover failure recovery

This AI only addresses NR.

Including corrections for T312 support.

Tdoc Limitation per company: 1 tdoc

R2-2002599 Discussions on VarRLF-Report Setting Quectel discussion

R2-2002901 Failure handling of both CHO and MR-DC LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

R2-2003036 Failure handling interaction Ericsson discussion NR\_Mob\_enh-Core

R2-2003578 Discussion on T312 support Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

#### 6.9.3.3 UE capabilities for conditional handover and fast handover failure recovery

This AI jointly addresses NR and LTE.

Including any remaining UE capability aspects triggered by RAN1/4 or related to existing RAN2 UE capability discussions of CHO (for both LTE and NR WIs) and T312 support (for NR WI).

The documents in this agenda item may be deprioritized in this meeting or used as input to post-meeting email discussion(s).

Tdoc Limitation per company: 1 tdoc

R2-2002902 Consideration on CHO capability LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

R2-2003028 UE capabilities for CHO and NR T312 Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core Late

R2-2003037 UE capabilities for CHO Ericsson discussion NR\_Mob\_enh-Core

R2-2003579 Discussion on UE capabilities for CHO and T312 Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

### 6.9.4 Conditional PSCell addition/change

No documents should be submitted to 6.9.4. Please submit to 6.9.4.x

#### 6.9.4.1 Open issues and corrections for Conditional PSCell change for intra-SN

Including outcome of email discussion [Post109e#13][MOB] Resolving open issues for CPC (CATT).

Including remaining details, resolution of open issues and corrections CPC for Rel-16.

Contributions on issues already resolved by the email discussion [Post109e#13][MOB] are discouraged.

Tdoc Limitation per company: 1 tdoc

R2-2002749 Clarifications on issues of CPC-intra-SN Futurewei discussion Rel-16 NR\_Mob\_enh-Core

R2-2002800 CPC with SRB3 Configuration Apple discussion NR\_Mob\_enh-Core

R2-2002903 Left Issues for CPC in R16 LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core R2-2001536

R2-2003038 Remaining issues for conditional PSCell change Ericsson discussion NR\_Mob\_enh-Core

R2-2003100 Remaining issues for CPC Lenovo, Motorola Mobility discussion Rel-16

R2-2003107 On how to close the open issues for Conditional PSCell Change Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core

R2-2003327 Discussion on CPC configuration handling during SCG Release Samsung discussion NR\_Mob\_enh-Core

R2-2003423 Remaining issues for CPC ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

R2-2003440 Report of [post109e@13][NR MOB] Resolving open issues for CPC CATT discussion Rel-16 NR\_Mob\_enh-Core Late

R2-2003441 Draft CR for transmission of RRCReconfigurationComplete upon CPC execution CATT draftCR Rel-16 38.331 16.0.0 F NR\_Mob\_enh-Core

=> Revised in R2-2003799

R2-2003799 Draft CR for transmission of RRCReconfigurationComplete upon CPC execution CATT draftCR Rel-16 38.331 16.0.0 F NR\_Mob\_enh-Core

R2-2003442 Draft CR for transmission of RRCReconfigurationComplete upon CPC execution CATT draftCR Rel-16 36.331 16.0.0 F NR\_Mob\_enh-Core

R2-2003580 Discussion the transaction id issues for CPAC Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

#### 6.9.4.2 UE capabilities for Conditional PSCell change for intra-SN

Including any remaining UE capability aspects of Conditional PSCell change for intra-SN (for NR WI).

The documents in this agenda item may be deprioritized in this meeting or used as input to post-meeting email discussion(s).

Tdoc Limitation per company: 1 tdoc

R2-2002904 Consideration on CPC capability LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

R2-2003029 UE capabilities for CPC Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core Late

R2-2003039 UE capabilities for conditional PSCell change Ericsson discussion NR\_Mob\_enh-Core

R2-2003581 Discussion on UE capabilities for CPC Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

### 6.9.5 ASN.1 review of mobility WIs for NR RRC

Including documents related to Class 3 ASN.1 review issues.

This agenda item focuses on **NR RRC** aspects of both LTE and NR mobility WIs – LTE RRC aspects of both LTE and NR mobility WIs should be submitted to 7.3.4. Do not submit contributions on WI-specific open issues that are not captured in the current NR RRC to this agenda item.

R2-2003326 [S350] Discussion on radio bearer handling in DAPS Samsung discussion NR\_Mob\_enh-Core

R2-2003424 [Z255] Correction for Pcell change in case of CPC ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

R2-2003664 [H223] Correction on TAG configuration applied to target cell Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

## 6.10 DC and CA enhancements

(LTE\_NR\_DC\_CA\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; target; Jun 20; WID: [RP-192336](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191600.zip), SR: RP-200319, see also guidance in RP 192326)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs

### 6.10.1 General

Including incoming LSsrapporteur inputs, etc

Including outcome of the email discussion [Post109e#37][DCCA] RRC open Issues (Ericsson). Topics treated in this email discussion are not planned to be further treated with other tdocs.

RRC CRs and RRC issues coordination by Ericsson

* [AT109bis-e][032][DCCA] RRC (Ericsson)

Scope: Treat topics in 6.10.1, based on R2-2003383, R2-2003789, R2-2003381, R2-2003382 and comments. Discussion on non-controversial issues/proposals that might not need to be treated on-line can start immediately.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC.

Part 2: CRs capturing agreements from this meeting (incl results from other discussions).

[R2-2003383](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003383.zip) Report on email discussion [Post109e][037][DCCA] RRC open issues (Ericsson) Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

ASN.1 Issues & RRC Corrections

[R2-2003789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003789.zip) Feature summary for DCCA RRC open issues Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2003381](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003381.zip) CR for 36.331 for CA/DC Enhancements Ericsson CR Rel-16 36.331 16.0.0 4260 - F LTE\_NR\_DC\_CA\_enh-Core Late

[R2-2003382](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003382.zip) CR for 38.331 on CA/DC Enhancements Ericsson CR Rel-16 38.331 16.0.0 1557 - F LTE\_NR\_DC\_CA\_enh-Core Late

DCCA-H01 – More parameter to Resume

[R2-2003659](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003659.zip) [Coordinated][DCCA-H01] Adding p-MaxEUTRA, p-MaxUE-FR1, tdm-PatternConfig in RRCConnectionResume message Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core Revised

[R2-2003660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003660.zip) [Coordinated][DCCA-H01] Draft CR for adding p-maxEUTRA, p-maxUE-FR1, tdm-patternConfig in RRCConnectionResume message Huawei, HiSilicon draftCR Rel-16 36.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core Revised

[R2-2003760](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003760.zip) [Coordinated][DCCA-H01] Adding p-MaxEUTRA, p-MaxUE-FR1, tdm-PatternConfig in RRCConnectionResume message Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core [R2-2003659](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003659.zip)

[R2-2003761](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003761.zip) [Coordinated][DCCA-H01] Draft CR for adding p-maxEUTRA, p-maxUE-FR1, tdm-patternConfig in RRCConnectionResume message Huawei, HiSilicon draftCR Rel-16 36.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core [R2-2003660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003660.zip)

DCCA-H03 - HARQ parameters for PUCCH cell

[R2-2003661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003661.zip) [Coordinated][DCCA-H03] Correction on HARQ parameters configured for secondary PUCCH cell group Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core Revised

[R2-2003662](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003662.zip) [Coordinated][DCCA-H03] Draft CR on HARQ parameters configured for secondary PUCCH cell group in TS 38.331 Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core Revised

[R2-2003762](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003762.zip) [Coordinated][DCCA-H03] Correction on HARQ parameters configured for secondary PUCCH cell group Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core [R2-2003661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003661.zip)

[R2-2003763](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003763.zip) [Coordinated][DCCA-H03] Draft CR on HARQ parameters configured for secondary PUCCH cell group in TS 38.331 Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core [R2-2003662](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003662.zip)

**Others**

[R2-2003718](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003718.zip) Misc. ASN.1 corrections to 36.331 for eDCCA Huawei, HiSilicon draftCR Rel-16 36.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core Late

[R2-2003719](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003719.zip) Misc. ASN.1 corrections to 38.331 for eDCCA Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core Late

### 6.10.2 UE capabilities

Please see general instructions

Summary if needed by Huawei

* [AT109bis-e][033][DCCA] UE capabilities (Huawei)

Scope: Treat topics in 6.10.2, based on R2-2003707 and comments. Discussion on non-controversial issues/proposals that might not need to be treated on-line can start immediately. Others can start after on-line session.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC (can be extended). Way forward for issues that cannot be resolved at this meeting.

Part 2: Running CRs capturing agreements from this meeting.

Summary

[R2-2003707](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003707.zip) Summary for UE capabilities Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core Late

Other

[R2-2002642](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002642.zip) Remaining issues of UE capability of Rel-16 DCCA enhancement in TS 36.306 Qualcomm Incorporated, Samsung discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002643](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002643.zip) Remaining issues of UE capability of Rel-16 DCCA enhancement in TS 38.306 Qualcomm Incorporated, Samsung discussion LTE\_NR\_DC\_CA\_enh-Core

[R2-2002769](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002769.zip) Remaining issue on DCCA capability MediaTek Inc. discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002892](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002892.zip) Remaining Issues on UE Capability for DC/CA Enhancement vivo discussion

[R2-2003276](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003276.zip) Remaining issues for CA&DC UE capabilities Ericsson discussion

[R2-2003708](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003708.zip) UE capability for eDCCA RAN1 features Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

Moved from 6.10.1

R2-2003703 Introducing of UE capabilities for eDCCA Huawei, HiSilicon CR Rel-16 36.306 16.0.0 1757 - B LTE\_NR\_DC\_CA\_enh-Core Late

R2-2003704 Introduction of UE capabilities for eDCCA Huawei, HiSilicon CR Rel-16 38.306 16.0.0 0293 - B LTE\_NR\_DC\_CA\_enh-Core Late

R2-2003705 Introducing of UE capabilities for eDCCA Huawei, HiSilicon CR Rel-16 36.331 16.0.0 4283 - B LTE\_NR\_DC\_CA\_enh-Core Late

R2-2003706 Introducing of UE capabilities for eDCCA Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1580 - B LTE\_NR\_DC\_CA\_enh-Core Late

### 6.10.3 NR-NR Dual Connectivity

Summary if needed by Ericsson

T\_offset is assumed to be treated on-line

* [AT109bis-e][034][DCCA] NR-NR DC (Huawei)

Scope: Treat topics in 6.10.3, Start immediately with R2-2003656 and R2-2003657. Wait for on-line discussion for others.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

LS in

Moved from 6.10.1

[R2-2002517](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002517.zip) LS on uplink power control for NR-NR Dual-Connectivity (R1-2001421; contact: Apple) RAN1 LS in Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN2

**Toffset**

[R2-2002893](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002893.zip) T\_offset determination for NR-DC dynamic power sharing vivo discussion

[R2-2002894](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002894.zip) Draft CR on T\_offset determination for NR-DC dynamic power sharing vivo draftCR Rel-16 38.331 16.0.0 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002895](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002895.zip) Draft LS on T\_offset determination for NR-DC dynamic power sharing vivo LS out To:RAN1

[R2-2003198](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003198.zip) Discussion on Toffset for NR-DC power control Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002979](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002979.zip) NR DC power control Nokia, Nokia Shanghai Bell discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002980](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002980.zip) Reply LS on uplink power control for NR-NR Dual-Connectivity Nokia, Nokia Shanghai Bell LS out Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN WG1

[R2-2003655](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003655.zip) Discussion on RAN2 impact for NR-DC Dynamic Power Sharing Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

**Async-CA and Power control in NR-DC**

[R2-2003656](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003656.zip) Support of NR-DC semi-static power control Alt1-2 in Async CA Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2003657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003657.zip) [Draft] LS on slot offset exchange for NR-DC power control Huawei, HiSilicon LS out Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN3

**Withdrawn**

R2-2002959 NR DC power control Nokia, Nokia Shanghai Bell discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core Withdrawn

R2-2002960 LS answer to RAN1 on NR DC UL PC Nokia, Nokia Shanghai Bell LS out Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN WG1 Withdrawn

### 6.10.4 Early measurement reporting

Early measurement reporting for MR-DC, NR-DC, and CA in IDLE, INACTIVE.

Summary if needed by Ericsson

* [AT109bis-e][035][DCCA] Early Measurement Reporting (Ericsson)

Scope: Treat topics in 6.10.4, based on R2-2003790 and comments, and other papers if needed). Start non-controversial proposals immediately. Wait for on-line discussion for others. Can also have an immediate round of comments to clarify better the scope of on-line discussions.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

**Summary**

R2-2003790 Feature summary for early measurements Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

Other

[R2-2003384](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003384.zip) Early measurement configuration in UE context retrieval Ericsson, Qualcomm Incorporated, LG Electronics Inc., CATT, OPPO, AT&T, Vodafone, Telecom Italia S.p.A, Intel Corporation, InterDigital Inc. discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2003385](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003385.zip) Granular reporting of early measurement results Ericsson, MediaTek Inc., ZTE Corporation, LG Electronics Inc., Vivo, AT&T, Vodafone, InterDigital Inc., Telecom Italia S.p.A discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002644](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002644.zip) Remaining issues of NR early measurements Qualcomm Incorporated discussion LTE\_NR\_DC\_CA\_enh-Core

[R2-2003395](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003395.zip) Progressing some unresolved early measurement reporting issues Samsung Telecommunications discussion Rel-16 Late

[R2-2002701](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002701.zip) Remaining issues of early measurement ZTE Corporation, Sanechips discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

**ASN.1 issues & RRC corrections**

[R2-2002675](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002675.zip) [RIL402]Introduction of secondary SMTC for early measurement configuration OPPO draftCR Rel-16 38.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core

[R2-2003220](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003220.zip) Consideration on conditions for cells to be reported LG Electronics Inc. discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2003221](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003221.zip) Need codes for Ies in ssb-MeasConfig in NR SIB11 LG Electronics Inc. discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2003200](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003200.zip) Reporting early measurements to SN in INM Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

**Withdrawn**

R2-2003217 Consideration on conditions for cells to be reported LG Electronics Inc. discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core Withdrawn

R2-2003218 Need codes for Ies in ssb-MeasConfig in NR SIB11 LG Electronics Inc. discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core Withdrawn

### 6.10.5 Fast SCell activation

Solutions for fast SCell activation including 'dormancy' like behaviour, provision of temporary RS resources at SCell activation, etc.

Summary by Oppo

* [AT109bis-e][036][DCCA] Fast Scell Activation (OPPO)

Scope: Treat general and RRC topics in 6.10.5, based on R2-2003770 and comments. Can start discussion on non-controversial proposals immediately, if any. Wait for on-line discussion for others.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

Summary

[R2-2003770](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003770.zip) Summary of fast SCell activation OPPO discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

Other

[R2-2002646](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002646.zip) Remaining issues of dormant BWP Qualcomm Incorporated discussion LTE\_NR\_DC\_CA\_enh-Core

[R2-2002822](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002822.zip) CR to 38.331 on on supporting implicit BFD-RS configuration in dormant BWP Qualcomm Incorporated draftCR Rel-16 38.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core

[R2-2002907](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002907.zip) Beam failure detection for dormancy Samsung discussion LTE\_NR\_DC\_CA\_enh

[R2-2003033](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003033.zip) Consideration on configuration of BFD-RS LG Electronics Inc. discussion LTE\_NR\_DC\_CA\_enh-Core

[R2-2002673](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002673.zip) Discussion on implicit BFD-RS on dormant BWP OPPO discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002801](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002801.zip) BFD-RS Configuration on Dormant BWP Apple discussion NR\_Mob\_enh-Core

[R2-2002702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002702.zip) Remaining issues of fast SCell activation ZTE Corporation, Sanechips discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002768](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002768.zip) Discussion on first non-dormant UL BWP MediaTek Inc. discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002899](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002899.zip) UL BWP behavior for dormancy Samsung discussion LTE\_NR\_DC\_CA\_enh

**ASN.1 issues & corrections RRC**

[R2-2003313](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003313.zip) PDSCH-Config for dormant BWP LG Electronics Inc. discussion Rel-16

[R2-2002983](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002983.zip) RRC Dormant cleanup Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.0.0 1537 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2002789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002789.zip) Correction on the Configuration of sCellState [C101] [C102] CATT draftCR Rel-16 38.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core Late

**Corrections 38.321 MAC**

* [AT109bis-e][037][DCCA] MAC (OPPO)

Scope: Treat MAC proposals for DCCA

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

Part 2: Agreeable CR

[R2-2002674](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002674.zip) Corrections on PHR generation due to dormant BWP OPPO draftCR Rel-16 38.321 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core

[R2-2002982](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002982.zip) MAC Dormant cleanup Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.0.0 0715 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2003658](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003658.zip) Corrections on MAC spec for direct SCell activation and dormant BWP Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2003277](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003277.zip) Correction to SCell activation procedures Ericsson draftCR Rel-16 38.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core

**38.300 Correction – not Treated**

This Stage-2 correction is postponed

[R2-2002981](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002981.zip) Stage-2 dormant cleanup Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.1.0 0213 - F LTE\_NR\_DC\_CA\_enh-Core

**SRS in dormant – Not treated**

[R2-2002750](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002750.zip) Further discussion on Scell domancy Futurewei discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

**Withdrawn**

R2-2002961 On early measurements related to SCG CA Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.1.0 0212 - D LTE\_NR\_DC\_CA\_enh-Core Withdrawn

R2-2002962 Remaining details of MCG failure recovery Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.0.0 0713 - F LTE\_NR\_DC\_CA\_enh-Core Withdrawn

R2-2002963 BFD on Dormant Scell Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.0.0 1535 - F LTE\_NR\_DC\_CA\_enh-Core Withdrawn

R2-2002906 Beam failure detection for dormancy Samsung discussion Withdrawn

### 6.10.6 MCG SCell and SCG Configuration with RRC Resume

Support of CA/DC configuration with RRC resume.

Summary by ZTE

* [AT109bis-e][038][DCCA] MCG SCell and SCG Configuration with RRC Resume (ZTE)

Scope: Treat topics in 6.10.6, based on R2-2003812 and comments. Can start discussion on non-controversial proposals immediately, if any. Wait for on-line discussion for contriversial proposal.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

**Summary**

R2-2003812 Summary of MCG SCell and SCG Configuration with RRC Resume ZTE Corporation discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

**Other**

[R2-2002699](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002699.zip) Remaining issues of restoreSCG in RRC resume ZTE Corporation, Sanechips discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2003128](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003128.zip) Remaining issue on stored SCG context LG Electronics Inc. discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2003146](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003146.zip) Draft LS to RAN3 on updated Inactive AS context LG Electronics Inc. LS out Rel-16 To:RAN3

[R2-2003243](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003243.zip) Handling the SCG Configuration in RRC Resume InterDigital, Ericsson, LG, OPPO, KT Corp discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core R2-2000553

[R2-2003241](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003241.zip) Draft 36.331 CR for Handling SCG Configuration in Resume InterDigital, Ericsson, LG, OPPO draftCR Rel-16 36.331 16.0.0 LTE\_NR\_DC\_CA\_enh-Core R2-2000551

[R2-2003242](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003242.zip) Draft 38.331 CR for Handling SCG Configuration in Resume InterDigital, Ericsson, LG, OPPO draftCR Rel-16 38.331 16.0.0 LTE\_NR\_DC\_CA\_enh-Core R2-2000552

### 6.10.7 Fast MCG link Recovery

Including outcome of the email discussion [Post109e#27][DCCA] Fast MCG recovery (Ericsson). Only the email discussion is planned to be treated under this AI.

* [AT109bis-e][039][DCCA] Fast MCG Link Recovery (Ericsson)

Scope: Treat topics in 6.10.6, based on R2-2003812 and ASN.1 issues and RRC corrections. Can start discussion on non-controversial proposals immediately, if any. Wait for on-line discussion for controversial proposal.

Part 1: Determine which issues that need resolution, find agreeable proposals. Deadline: April 24 0700 UTC

Email discussion

[R2-2003199](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003199.zip) Summary of [Post109e#27][DCCA] Fast MCG recovery Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

Other

[R2-2002647](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002647.zip) Remaining issues in Fast MCG Recovery Qualcomm Incorporated discussion LTE\_NR\_DC\_CA\_enh-Core

[R2-2002700](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002700.zip) Support of Inter-RAT handover upon MCG failure recovery ZTE Corporation, Sanechips discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002992](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002992.zip) CR37340 on fast MCG recovery support vivo CR Rel-16 37.340 16.1.0 0191 - B LTE\_NR\_DC\_CA\_enh-Core

**ASN.1 issues and RRC Corrections**

[R2-2003425](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003425.zip) [Z301] Correcction for SCG RLC failure during fast MCG recovery ZTE Corporation, Sanechips discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2002790](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002790.zip) Correction on the Configuration of T316 [C103] [C104] CATT draftCR Rel-16 38.331 16.0.0 F LTE\_NR\_DC\_CA\_enh-Core Late

[R2-2002984](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002984.zip) Erroneous instances of “the procedure ends” impacting reception over SRB3 Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.0.0 1538 - F LTE\_NR\_DC\_CA\_enh-Core

**Withdrawn**

R2-2002964 BFR on Dormant Scell Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.9.0 1536 - F LTE\_NR\_DC\_CA\_enh-Core Withdrawn

### 6.10.8 Other

[R2-2003709](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003709.zip) CG fast recovery via alternative UL Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

## 6.11 UE Power Saving in NR

(NR\_UE\_pow\_sav-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Jun 20; WID: [RP-200494](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191607.zip); SR: RP-200237, See also guidence in RP-192326). Documents in this agenda item will be handled in a break out session. NOTE: "SCell dormancy" like behaviour will be discussed in MR-DC WI.

Time budget: 1 TU

Tdoc Limitation: 2

### 6.11.1 Organisational

Including incoming LSs, running TS, rapporteur inputs, etc

NOTE: any stage 3 identified issues with MIMO configurations should be provided to 38.331 rapporteur (Mediatek)

Contributions in this AI are reserved for WI rapporteur inputs and/or spec rapporteur inputs and do not count towards the tdoc limits. Including outcome of email [Post109e#42][PowSav] UE capabilities (Intel)

No contributions expected for UE capabilities. Please provide your input to the email discussion. Intel is expected to produce first draft of 38.304

R2-2002601 Report of email discussion [Post109e#42][PowSav] UE capabilities Intel Corporation discussion Rel-16 NR\_UE\_pow\_sav

R2-2002602 UE capabilities for Rel-16 Power Saving (PWS) WI Intel Corporation draftCR Rel-16 38.306 16.0.0 B NR\_UE\_pow\_sav

R2-2002842 SRB3 for reporting UAI for power saving OPPO CR Rel-16 37.340 16.1.0 0189 - F NR\_UE\_pow\_sav-Core

R2-2003125 CR for 38.331 for Power Savings MediaTek Inc. CR Rel-16 38.331 16.0.0 1540 - C NR\_UE\_pow\_sav-Core Late

R2-2003126 CR for 36.331 for Power Savings MediaTek Inc. CR Rel-16 36.331 16.0.0 4245 - B NR\_UE\_pow\_sav-Core Late

### 6.11.2 PDCCH-based power saving signals/channel Additional stage-3 RAN2 aspects

Including out of [Post109e#41][PowSav] DCP open issues (InterDigital, Huawei)

Contributions related to issues addressed by the email discussions should be avoided and are discouraged for this AI.

All identified critical open issues should be provided to the rapporteur via email discussion Post109e#41 and new contributions on those topics are discouraged. Contributions should be reserved for more complicated and critical issues.

No individual company CRs should be submitted

R2-2002797 PDCCH-WUS Mechanism Apple discussion NR\_UE\_pow\_sav-Core

R2-2002839 Remaining issues of DCP impact on SCell dormancy OPPO discussion Rel-16 NR\_UE\_pow\_sav-Core

R2-2002866 Remaining issues for DCP vivo discussion Rel-16 FS\_NR\_UE\_pow\_sav

R2-2002930 Correction on RAR and DCP monitoring Nokia, Nokia Shanghai Bell draftCR Rel-16 38.321 16.0.0 F NR\_UE\_pow\_sav-Core

R2-2003032 Remaining issue on DCP monitoring within RAR window LG Electronics Inc. discussion NR\_UE\_pow\_sav-Core

R2-2003129 Miscellaneous corrections to 38.321 for Rel-16 UE power saving Huawei, HiSilicon CR Rel-16 38.321 16.0.0 0719 - F NR\_UE\_pow\_sav-Core Late

R2-2003288 Open issues UE capability, DCP, UE assistance and RRM relaxation Ericsson discussion Rel-16 NR\_newRAT-Core

R2-2003378 Summary of [Post109e#41] [PowSav] DCP open issues – Phase 1 InterDigital discussion Rel-16 NR\_UE\_pow\_sav-Core Late

R2-2003379 Report of [Post109e#41] [PowSav] DCP open issues InterDigital discussion Rel-16 NR\_UE\_pow\_sav-Core Late

R2-2003562 PDCCH-based power saving signal/channel Samsung discussion NR\_UE\_pow\_sav-Core

### 6.11.3 UE assistance and RRC

Including outcome of [Post109e#43][PowSav] UE Assistance and RRC open issues (Mediatek)

Contributions related to issues addressed by the email discussions should be avoided and are discouraged for this AI.

All identified critical open issues should be provided to the rapporteur via email discussion Post109e#43 and new contributions on those topics are discouraged. Contributions should be reserved for more complicated.

No individual company CRs should be submitted

R2-2002670 Power Saving UE assistance information Sony discussion Rel-16 NR\_UE\_pow\_sav-Core

R2-2002798 Value Range for UE Assistance Information Apple discussion NR\_UE\_pow\_sav-Core

R2-2002838 Remaining issues on implicit SCG release OPPO discussion Rel-16 NR\_UE\_pow\_sav-Core

R2-2003127 Summary of [Post109e#43][PowSav] UE Assistance and RRC open issues MediaTek Inc. discussion Rel-16 NR\_UE\_pow\_sav-Core Late

R2-2003229 Adopting general UE assistance reporting framework to UE power saving Samsung Telecommunications discussion Rel-16

R2-2003289 UE assistance for connection release Ericsson, ZTE, Deutsche Telekom discussion Rel-16 NR\_newRAT-Core

R2-2003387 Adopting general UE assistance reporting framework to UE power saving Samsung Telecommunications discussion Rel-16 Late Withdrawn

R2-2003472 Discussion on clarification for max MIMO layer and antenna port Huawei, HiSilicon discussion Rel-16 NR\_UE\_pow\_sav-Core

R2-2003473 TP for clarification for max MIMO layer and antenna port Huawei, HiSilicon discussion Rel-16 NR\_UE\_pow\_sav-Core

### 6.11.6 RRM measurement relaxation

Including out of [Post109e#44][PowSav] RRM open issues (CATT, Vivo)

Contributions related to issues addressed by the email discussions should be avoided and are discouraged for this AI.

All identified critical open issues should be provided to the rapporteur via email discussion Post109e#44 and new contributions on those topics are discouraged. Contributions should be reserved for more complicated issued.

No individual company CRs should be submitted

R2-2002665 UE power saving for inter frequency measurements Sony discussion Rel-16 NR\_UE\_pow\_sav-Core R2-2000827

R2-2002735 Configurations for RRM Measurement Relaxation MediaTek Inc. discussion

R2-2002791 Report of [Post109e#44][PowSav] RRM open issues CATT discussion Rel-16 NR\_UE\_pow\_sav-Core

R2-2002865 CR on 38.304 for UE Power saving in NR vivo CR Rel-16 38.304 16.0.0 0152 - B FS\_NR\_UE\_pow\_sav

R2-2002867 Configurations for RRM Measurement Relaxation vivo discussion Rel-16 FS\_NR\_UE\_pow\_sav

R2-2002950 Correction of SI update of relaxed measurement parameters Nokia, Nokia Shanghai Bell, Ericsson draftCR Rel-16 38.304 16.0.0 F NR\_UE\_pow\_sav-Core

R2-2003216 EMR issue on relaxed measurement LG Electronics Inc. discussion Rel-16 NR\_UE\_pow\_sav-Core Withdrawn

R2-2003219 EMR issue on relaxed measurement LG Electronics Inc. discussion Rel-16 NR\_UE\_pow\_sav-Core

## 6.12 SON/MDT support for NR

(NR\_SON\_MDT-Core; leading WG: RAN3; REL-16; started: Jun 19; target; Jun 20; WID: [RP-191](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191594.zip)776; SR: RP-200489). Documents in this agenda item will be handled in a break out session

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

R2-2003324 Draft reply LS on the status update of the SON support for NR works Intel Corporation LS out Rel-16 NR\_SON\_MDT-Core To:SA5 Cc:RAN3

### 6.12.1 General

Including LSs, work plan, rapporteur inputs, running TS

R2-2002521 Reply LS on QoS monitoring for URLLC (R3-201372; contact: Intel) RAN3 LS in Rel-16 NR\_SON\_MDT To:SA5, SA2 Cc:RAN2, SA1, CT4

R2-2002524 LS on removal of Management Based MDT Allowed IE for NR (R3-201437; contact: Qualcomm) RAN3 LS in Rel-16 NR\_SON\_MDT To:RAN2, SA5

R2-2002544 Reply to LS to SA5 on trace related configurations for NR MDT (S5-201424; contact: Ericsson) SA5 LS in Rel-17 To:RAN2

R2-2002545 LS on the status update of the SON support for NR works (S5-201525; contact: Intel) SA5 LS in Rel-16 To:RAN2, RAN3

R2-2002896 Running CR to 38.306 for NR\_SON\_MDT vivo, CMCC draftCR Rel-16 38.306 16.0.0 NR\_SON\_MDT-Core

R2-2003487 draft TS 38.314 CMCC draft TS Rel-16 38.314 0.1.0 NR\_SON\_MDT-Core

R2-2003488 UE Feature List for Rel-16 SON/MDT WI CMCC discussion Rel-16 NR\_SON\_MDT-Core

R2-2003797 Summary on ASN1 RIL for MDT and SON Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

### 6.12.2 MDT

The procedure, signaling and corresponding measurement quantities for MDT. Only Open issues and Corrections

R2-2002555 Clarification of MDT Initiation in NR and NG-RAN Qualcomm Incorporated, Nokia CR Rel-16 37.320 16.0.0 0078 - F NR\_SON\_MDT-Core

R2-2002606 Remaining Issues of UE Location Information Qualcomm Incorporated discussion Rel-16

R2-2002731 [C201 C203 C204] Discussion on Location Related Measurement Collection in MDT CATT discussion Rel-16 NR\_SON\_MDT-Core

R2-2002732 [C201 C203 C204] Corrections on Location Related Measurement Collection in MDT CATT draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2002733 [C253 C256 C257] Discussion for CEF Report CATT discussion Rel-16 NR\_SON\_MDT-Core

R2-2002747 [C253 C256 C257] Corrections for CEF Report CATT draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2002826 Remaining issues for NR MDT: [S461] [S462] [S463] [S464] [S465] [S466] [S467] [S468] [S469] [S470] [S471] [S474] Samsung discussion NR\_SON\_MDT-Core

R2-2002925 CR to 37320 on MDT configuration ZTE Corporation, Sanechips CR Rel-16 37.320 16.0.0 0080 - F NR\_SON\_MDT-Core Withdrawn

R2-2003074 Open issues associated of MDT Ericsson discussion

R2-2003076 [E002] On mobilityState reporting Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003084 [E010] On stopping T330 upon going to idle Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003085 [E012] On logging TAC in CEF report Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003086 [E014] On WLAN, Bluetooth and sensor information transfer from LoggedMeasurementConfgiuration to VarLogMeasConfig Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003087 [E018] On procedural text correction for any cell selection state exiting in outOfCoverage event driven logged MDT Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003088 [E021] On any-cell selection state related logging in logged MDT Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003091 [E026] On creation of MeasQuantityResultsLogged-r16 Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003093 [E041] On changing serving cell CGI to optional in logged MDT report Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003104 CR to 37.320 on MDT initiation ZTE Corporation, Sanechips CR Rel-16 37.320 16.0.0 0081 - F NR\_SON\_MDT-Core

R2-2003117 [C255] Reporting Logged MDT Result in SRB2 without DRB Establishment CATT draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003118 [C265] Corrections on Recording the UE History Information CATT draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003120 Introduction of TAC Information in CEF Report CATT draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003121 Miscellaneous corrections for 37.320 CATT draftCR Rel-16 37.320 16.0.0 F NR\_SON\_MDT-Core

R2-2003158 Resolving MDT stage 2 open issues Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

R2-2003159 Miscellaneous corrections Nokia (Rapporteur) CR Rel-16 37.320 16.0.0 0082 - F NR\_SON\_MDT

R2-2003160 N011, N012, N013, N014 on PLMN Id association with cell Id Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

R2-2003161 N015 on referencing TS23.122 Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

R2-2003499 Removal of Management Based MDT Allowed IE for NR MDT CMCC discussion Rel-16 NR\_SON\_MDT-Core

R2-2003500 CR for Removal of Management Based MDT Allowed IE for NR MDT CMCC CR Rel-16 37.320 16.0.0 0083 - F NR\_SON\_MDT-Core

R2-2003574 Minor issues on MDT Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2003798 Summary on MDT Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

### 6.12.3 L2 measurements

Definition of L2 measurements in TS 38.314.

No new measureemnts will be introduced to TS38.314 this meeting. Only Open issues and Corrections

R2-2002751 Discussion on metric of number of active UEs in RRC connected NTT DOCOMO INC. discussion

R2-2002897 Remaining issues on L2 measurement vivo discussion

R2-2002898 CR37320 for M5 ~ M7 vivo CR Rel-16 37.320 16.0.0 0079 - B NR\_SON\_MDT-Core

R2-2003073 Open issues of L2 measurements Ericsson discussion

R2-2003165 Correction of DL packet delay Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

R2-2003486 Summary of AI 6.12.3 L2 measurements CMCC (Summary Rapporteur) discussion Rel-16 NR\_SON\_MDT-Core Late

R2-2003489 Miscellaneous corrections for draft TS 38.314 CMCC discussion Rel-16 NR\_SON\_MDT-Core

R2-2003575 Minor issues on L2M Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

### 6.12.4 SON

UE reporting necessary to enhance the network configuration for MRO, MLB and RACH optimization

Only Open issues and Corrections

R2-2002562 Corrections to RA Report\_S480\_S481\_S482\_S483\_S484\_S485 Samsung Electronics Co., Ltd discussion Rel-16 NR\_SON\_MDT-Core

R2-2002720 Remaining Aspects on UE History Information Mediatek Inc. discussion

R2-2002760 Discussion on terminology of handover failure in rel-16 SON MDT NTT DOCOMO INC. discussion

R2-2002761 Discussion on UE capability for location reporting in SCG failure NTT DOCOMO INC. discussion

R2-2002827 Remaining issues for NR SON: [S472] [S473] [S475] [S476] [S477] [S478] [S479] Samsung discussion NR\_SON\_MDT-Core

R2-2002923 [Z152] Correction to RACH report and RLF report ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core

R2-2002924 Enhancement on RLF report for MRO ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core

R2-2003075 Open issues associated to SON functions Ericsson discussion

R2-2003077 [E007] On including TAC information for re-establishment cell in RLF report Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003080 [E009] On LTE previousPCell inclusion in NR RLFReport Ericsson draftCR Rel-16 38.331 16.0.0 B NR\_SON\_MDT-Core

R2-2003081 [E009] On NR previousPCell inclusion in LTE RLFReport Ericsson draftCR Rel-16 36.331 16.0.0 B NR\_SON\_MDT-Core

R2-2003082 [E009] On UE capabilities for inter-RAT MRO related RLF reporting Ericsson draftCR Rel-16 36.306 16.0.0 B NR\_SON\_MDT-Core

R2-2003083 [E009][E026] On UE capabilities for cross RAT RLF reporting and inter-RAT MRO related RLF reporting Ericsson draftCR Rel-16 38.306 16.0.0 B NR\_SON\_MDT-Core

R2-2003089 [E023] On including beamFailureRecoveryFailure in SCG failure information messages Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003090 [E023] On including beamFailureRecoveryFailure in SCGFailureInformationNR message Ericsson draftCR Rel-16 36.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003092 [E028] On SON-MDT related UE capabilities addition Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

R2-2003119 Consideration on Adding the Re-connection Attempt Cell Identity CATT, CMCC discussion

=> Revised in R2-2003784

R2-2003784 Consideration on Adding the Re-connection Attempt Cell Identity CATT, CMCC discussion

R2-2003162 N016 on missing RA-report availability indicator Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

R2-2003163 N017 RA-report also for failed RA procedures Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

R2-2003164 N018 Actions upon successful completion of random-access procedure Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

R2-2003576 Minor issues on SON Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2003800 Summary of AI 6.12.4 SON Ericsson discussion Rel-16 NR\_SON\_MDT-Core

### 6.12.5 Others

## 6.13 2-step RACH for NR

(NR\_2step\_RACH-Core; leading WG: RAN1; REL-16; started: Dec 18; target; Mar 20; WID: [RP-](file:///C:\Data\3GPP\Extracts\RP-190711%20Revised%20work%20item%20proposal%202%20step%20RACH%20for%20NR.docx)200085; SR: RP-200488). Documents in this agenda item will be handled in a break out session

Time budget: 1 TU

Tdoc Limitation: 1

### 6.13.1 General

Running CRs, Incoming LSs, Contributions in this AI are restricted for WI rapporteur inputs and/or spec rapporteur inputs and do not count towards the tdoc limits.

All comments related to 38.300 should be given directly to Eswar rapporteur. ZTE will update CRs according to received comments offline

R2-2003009 4-step RA type description Nokia (rapporteur), Nokia Shanghai Bell, ZTE CR Rel-16 38.300 16.1.0 0214 - F NR\_2step\_RACH-Core Late

### 6.13.2 User plan aspects

A single CR will be produced by Rapporteur. No individual company CRs are expected. Comments should be given directly to rapporteur preferable. Contribution should be reserved for more complicated issued, but they should be critical issues

R2-2002585 Remaining Issues on Resource Selection in 2-setp RACH vivo discussion

R2-2002668 msgB-RNTI ambiguity for CFRA and CBRA of 2-Step RACH Sony discussion Rel-16 NR\_2step\_RACH-Core R2-2000833

R2-2002840 Remaining issues of 2-step RACH OPPO discussion Rel-16 NR\_2step\_RACH-Core Late

R2-2002965 Updates to MAC spec for 2-step RACH ZTE (CR editor), Nokia, Samsung, Vivo CR Rel-16 38.321 16.0.0 0714 - F NR\_2step\_RACH-Core, NR\_unlic-Core

R2-2003007 Discussion on remaining issues of 2-step RA Huawei, HiSilicon discussion Rel-16 NR\_2step\_RACH-Core

R2-2003356 Handling invalid POs for MsgA transmissions Ericsson discussion Rel-16 NR\_2step\_RACH-Core

R2-2003357 Change LCID to eLCID for Absolute Timing Advance Command Ericsson CR Rel-16 38.321 16.0.0 0722 - F NR\_2step\_RACH-Core

R2-2003362 Correction of Handling of invalid POs for MsgA transmissions Ericsson CR Rel-16 38.321 16.0.0 0725 - F NR\_2step\_RACH-Core

R2-2003666 Further clarifications on parameters for Random Access procedure LG Electronics discussion NR\_2step\_RACH-Core

### 6.13.3 RRC stage-3 related aspects

A single CR will be produced by Rapporteur. No individual company CRs are expected. Comments should be given directly to rapporteur preferable. Contribution should be reserved for more complicated issued, but they should be critical issues

R2-2002556 Issues - 2 step RA Samsung Electronics Co., Ltd discussion Rel-16 NR\_2step\_RACH-Core

R2-2002878 RAN2 related UE capability for 2-step RACH Intel Corporation discussion Rel-16 NR\_2step\_RACH-Core

R2-2003255 Remaining issue on 2-step CFRA Qualcomm Incorporated discussion Rel-16 NR\_2step\_RACH-Core

R2-2003649 Correction on 2-step RACH configurations in RRC ASUSTeK discussion Rel-16 38.331 NR\_2step\_RACH-Core

## 6.14 Single Radio Voice Call Continuity from 5G to 3G

(SRVCC\_NR\_to\_UMTS-Core; leading WG: RAN2; REL-16; started: Dec 18; target; Mar 20; WID: [RP-190713](file:///C:\Data\3GPP\archive\RAN\RAN%2383\Tdocs\RP-190713.zip); SR: RP-200436) Documents in this agenda item will be handled in a break out session

Tdoc Limitation: 1 tdoc

The Core part of this WI is 100% Only corrections.

### 6.14.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

Contributions in this AI are reserved for WI rapporteur inputs and do not count towards the tdoc limits.

### 6.14.2 Corrections

Including contributions/TPs/DraftCRs on SRVCC-specific Class 3 ASN.1 review aspects, if any. For these, no individual company CRs should be submitted: please consult with the RRC CR rapporteur first ([tangxun@huawei.com](mailto:tangxun@huawei.com)).

## 6.15 Cross Link Interference (CLI) handling and Remote Interference Management (RIM) for NR

(NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; target; Jun 20; WID: [RP-191997](file:///C:\Data\3GPP\archive\RAN\RAN%2385\Tdocs\RP-191997.zip); SR: RP-200453) Documents in this agenda item will be handled in a break out session.

Tdoc Limitation: 1 tdoc

Apart from corrections, it's possible to contribute to sub agenda item 6.15.2 for the remaining open issues requiring feedback from other groups.

### 6.15.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

Contributions in this AI are reserved for WI rapporteur inputs and do not count towards the tdoc limits.

R2-2002510 Reply LS on clarification of CLI resource configuration (R1-2001319; contact: Lenovo) RAN1 LS in Rel-16 NR\_CLI\_RIM-Core To:RAN2 Cc:RAN4

R2-2002511 LS on CLI measurement and reporting (R1-2001320; contact: LGE) RAN1 LS in Rel-16 NR\_CLI\_RIM-Core To:RAN4 Cc:RAN2

R2-2002528 Reply LS on CLI measurement capability (R4-2002221; contact: Huawei) RAN4 LS in Rel-16 NR\_CLI\_RIM-Core To:RAN2 Cc:RAN1

R2-2003365 CLI Featurre overview - Additional changes Nokia Solutions & Networks (I) CR Rel-16 38.300 16.1.0 0217 - D NR\_CLI\_RIM-Core

### 6.15.2 Remaining open issues

Including the open issues for which feedback has been requested to other groups.

Including contributions/TPs/DraftCRs on corrections and CLI-specific Class 3 ASN.1 review aspects, if any. For the latter (ASN.1 aspects), no individual company CRs should be submitted: please consult with the RRC CR rapporteur first ([sangwon7.kim@lge.com](mailto:sangwon7.kim@lge.com)).

R2-2002885 Additional frequency information for CLI measurements Samsung CR Rel-16 38.331 16.0.0 1531 - F NR\_CLI\_RIM

R2-2002909 Additional configuration for CLI resources LG Electronics Inc. discussion Rel-16

R2-2002911 CR on additional configuration for CLI resources LG Electronics Inc. CR Rel-16 38.331 16.0.0 1533 - F NR\_CLI\_RIM

R2-2003380 Remaining issues for RIM/CLI Ericsson discussion Rel-16 NR\_CLI\_RIM

## 6.16 Enhancements on MIMO for NR

(NR\_eMIMO-Core; leading WG: RAN1; REL-16; started: Jun 18; target; June 20; WID: [RP-200474](file:///C:\Data\3GPP\archive\RAN\RAN%2385\Tdocs\RP-192271.zip); SR: RP-200473). Documents in this agenda item will be handled in a break out session.

Tdoc Limitation: 2 tdocs

It's possible to contribute to all sub agenda items, to address the remaining open issues.

### 6.16.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

Contributions in this AI are reserved for WI rapporteur inputs and do not count towards the tdoc limits.

R2-2002883 Miscellaneous corrections on eMIMO Samsung CR Rel-16 38.321 16.0.0 0711 - F NR\_eMIMO-Core

### 6.16.2 RRC open issues

Including output of email discussion [Post109e#34][eMIMO] RRC Open issues (Ericsson). Contributions related to issues addressed by this email discussions should be avoided and are discouraged for this AI.

Including contributions/TPs/DraftCRs on eMIMO-specific Class 3 ASN.1 review aspects, if any. For these, no individual company CRs should be submitted: please consult with the RRC CR rapporteur first (helka-liina.maattanen@ericsson.com).

R2-2002870 Correction on the number of CORESETs per BWP (RIL v101) vivo CR Rel-16 38.331 16.0.0 1529 - F NR\_eMIMO-Core

R2-2002871 Correction on RLM RS configuration (RIL v102) vivo CR Rel-16 38.331 16.0.0 1530 - F NR\_eMIMO-Core

R2-2003181 [Post109e#34][EMIMO] RRC Open Issues (Ericsson) Ericsson discussion Rel-16 NR\_eMIMO-Core

R2-2003710 Correction on Multi-DCI based multi-TRP transmission for eMBB Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 F NR\_eMIMO-Core Late

R2-2003711 Corrections on multi-TRP transmission for URLLC Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 F NR\_eMIMO-Core Late

R2-2003892 Offline discussion 102: eMIMO RRC aspects - first round Ericsson (Rapporteur) discussion Rel-16 NR\_eMIMO-Core

### 6.16.3 Other open issues

Including output of email discussion [Post109e#17][eMIMO] BFR MAC CE for BFR on SpCell (Apple). Contributions related to issues addressed by this email discussions should be avoided and are discouraged for this AI.

MAC Corrections. The proposals in the following papers are summarized in [R2-2003795](file:///C:\Data\3GPP\RAN2\Docs\R2-2003795.zip)

R2-2002557 Issues - SCell BFR Samsung Electronics Co., Ltd discussion Rel-16 NR\_eMIMO-Core

R2-2002605 Discussion on pending BFR SR upon SCell deactivation Sharp, Samsung discussion NR\_eMIMO-Core

R2-2002872 Discussion on the SCell BFD on the deactivated SCell vivo discussion Rel-16 NR\_eMIMO-Core

R2-2002873 Correction on the SP SRS ActivationDeactivation MAC CE vivo discussion Rel-16 NR\_eMIMO-Core

R2-2002882 Considerations on the number of pathloss RSs indicated by MAC CE Samsung discussion Rel-16 NR\_eMIMO-Core

R2-2002926 SR configuration for SCell beam failure recovery Lenovo, Motorola Mobility discussion Rel-16 NR\_eMIMO-Core

R2-2002954 CC list-based SRS Activation/Deactivation MAC CE design OPPO discussion Rel-16 NR\_eMIMO-Core

R2-2002957 [Post109e#17] Identified other open issues Fujitsu discussion Rel-16 NR\_eMIMO-Core

R2-2003051 Draft CR on bitmap length determination for BFR MAC CE Nokia, Nokia Shanghai Bell, Apple draftCR Rel-16 38.321 16.0.0 NR\_eMIMO-Core

R2-2003052 Draft CR on Corrections for SCell BFR procedure Nokia, Nokia Shanghai Bell, Apple draftCR Rel-16 38.321 16.0.0 NR\_eMIMO-Core

R2-2003252 Correction on new DL MIMO MAC CE Qualcomm Incorporated discussion Rel-16 NR\_eMIMO-Core

R2-2003253 Cancellation the pending BFR SR Qualcomm Incorporated discussion Rel-16 NR\_eMIMO-Core

R2-2003358 Change LCID to eLCID for MIMO MAC CEs Ericsson CR Rel-16 38.321 16.0.0 0723 - F NR\_eMIMO-Core

R2-2003588 Remaining issue on aborting of ongoing RACH triggred by SR ZTE, Sanechips discussion Rel-16 NR\_eMIMO-Core

R2-2003618 Discussion on open issues on BFR MAC CE Google Inc. discussion Rel-16

R2-2003650 Remaining issues regarding cancellation of triggered BFRs for SCell ASUSTeK discussion Rel-16 38.321 NR\_eMIMO-Core

R2-2003651 Discussion on completion of RA procedure for SCell beam failure recovery ASUSTeK discussion Rel-16 38.321 NR\_eMIMO-Core

R2-2003663 Clarification on scheduling request for SCell beam failure recovery Google Inc. draftCR Rel-16 38.321 16.0.0 F NR\_eMIMO-Core

R2-2003795 Summary of proposed corrections\_AI\_6\_16\_3 Samsung Electronics Co., Ltd discussion Rel-16 NR\_eMIMO-Core

BFR on SpCell

R2-2002795 Report of [Post109e#17][EMIMO] BFR MAC CE for BFR on SpCell Apple discussion NR\_eMIMO-Core

R2-2003893 Offline discussion 103: BFR on SpCell - first round Apple discussion NR\_eMIMO-Core

R2-2003034 Consideration on SpCell BFR MAC CE LG Electronics Inc. discussion NR\_eMIMO-Core

R2-2003713 BFR MAC CE for SpCell Huawei, HiSilicon discussion Rel-16 NR\_eMIMO-Core

Timer based BFR MAC CE Transmission

R2-2002796 Timer based BFR MAC CE Transmission Apple, Nokia, Nokia Shanghai Bell discussion NR\_eMIMO-Core

R2-2003589 Remaining issues on BFR on SCell ZTE, Sanechips discussion Rel-16 NR\_eMIMO-Core

R2-2003712 Remaining issues on SCell BFR Huawei, HiSilicon discussion Rel-16 NR\_eMIMO-Core

R2-2003894 Offline discussion 104: Timer based BFR MAC CE Transmission Nokia discussion NR\_eMIMO-Core

DCI format 1\_2 applicability

R2-2003345 On DCI format 1\_2 applicability with NR eMIMO Ericsson discussion Rel-16 NR\_eMIMO-Core

## 6.18 Private Network Support for NG-RAN

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; target; June 20; WID: [RP-](file:///C:\Data\3GPP\archive\RAN\RAN%2384\Tdocs\RP-191563.zip)200122 SR; RP-200441) Documents in this agenda item will be handled in a break out session.

Tdoc Limitation: 2 tdocs

It's possible to contribute to all sub agenda items, to address the remaining open issues.

### 6.18.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

Contributions in this AI are reserved for WI rapporteur inputs and do not count towards the tdoc limits.

R2-2002502 Reply LS on sending CAG ID (C1-201027; contact: Ericsson) CT1 LS in Rel-16 Vertical\_LAN To:SA, SA2 Cc:RAN2, RAN3, SA3

### 6.18.2 RRC open issues

Including output of email discussion [Post109e#18][PRN] Remaining open issues (Nokia). Contributions related to issues addressed by this email discussions should be avoided and are discouraged for this AI.

Including contributions/TPs/DraftCRs on PRN-specific Class 3 ASN.1 review aspects, if any. For these, no individual company CRs should be submitted: please consult with the RRC CR rapporteur first (gyorgy.wolfner@nokia.com).

R2-2002658 Finalization of the support of Non-Public Networks Nokia (Rapporteur) CR Rel-16 38.331 16.0.0 1513 - F NG\_RAN\_PRN-Core Late

R2-2002659 Report from email discussion [Post109e#18][PRN] Remaining open issues Nokia (Rapporteur) discussion Rel-16 NG\_RAN\_PRN-Core

R2-2003895 Offline discussion 105: PRN open issues - first round Nokia (Rapporteur) discussion Rel-16 NG\_RAN\_PRN-Core

R2-2002666 Blacklist/whitelist for PCI range signaling and stage-3 details Sony discussion Rel-16 NG\_RAN\_PRN-Core

R2-2002745 Further consideration on the PCI range ZTE Corporation, Sanechips discussion Rel-16 NG\_RAN\_PRN-Core

R2-2002746 Further consideration on the cell reselection for the licensed spectrum ZTE Corporation, Sanechips discussion Rel-16 NG\_RAN\_PRN-Core

R2-2003319 Cell reselection restriction for SNPN and CAG Intel Corporation discussion Rel-16 NG\_RAN\_PRN-Core

R2-2003501 Remaining Issues the PCI Range CMCC discussion Rel-16 NG\_RAN\_PRN-Core

R2-2003507 Remaining issues on access and mobility control for NPN CMCC discussion Rel-16 NG\_RAN\_PRN-Core

R2-2003529 Discussion on the ANR for NPN vivo discussion

R2-2003604 Emergency sessions on CAG-only cell for non-CAG capable R16 UEs LG Electronics France discussion NG\_RAN\_PRN-Core

R2-2003606 On SNPN Cell Reselection in Licensed Bands NEC Telecom MODUS Ltd. Discussion

### 6.18.3 Other open issues

Including non-RRC issues not addressed in [Post109e#18].

If needed, a summary document may also be utilized to treat this agenda item.

R2-2002593 Cell selection and reselection for NPN Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

R2-2002594 Manual selection of PNI NPNs when CAG is broadcast Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

R2-2002734 Discussion on HRNNs Reporting Issue CATT discussion Rel-16 NG\_RAN\_PRN-Core

R2-2002736 Discussion on UE Behavior in Licensed Band with Non-CAG Member Cell CATT discussion Rel-16 NG\_RAN\_PRN-Core

R2-2003259 Consideration of HRNN and UAC in PRN China Telecom discussion Rel-16

R2-2003261 Remaining issues discussion on NPN China Telecom discussion Rel-16

R2-2003394 Emergency call support on CAG-only cells Qualcomm Incorporated discussion Rel-16 NG\_RAN\_PRN-Core

R2-2003421 Running CR to TS 38.304 for PRN Qualcomm Incorporated CR Rel-16 38.304 16.0.0 0156 - F NG\_RAN\_PRN

R2-2003474 Discussion on manual CAG selection Huawei, HiSilicon, China Telecom discussion Rel-16 NG\_RAN\_PRN-Core

R2-2003475 Discussion on mechanisms for the network to control manual NPN selection Huawei, HiSilicon, China Telecom discussion Rel-16 NG\_RAN\_PRN-Core

R2-2003558 Some Issues related to 38.304 Samsung R&D Institute India discussion

R2-2003605 Intra-frequency reselection upon selecting non-suitable SNPN cell LG Electronics France discussion NG\_RAN\_PRN-Core

R2-2003608 Remaining issues related to Manual CAG Selection Samsung R&D Institute India discussion

## 6.19 Other NR Rel-16 WIs/SIs

This agenda item is to be used for LSs and documents relating to Rel-16 NR but for which there is no existing RAN WI/SI (e.g. LSs from CT/SA requesting RAN2 action) or for which there is no allocated RAN2 time (e.g. some RAN4 led WIs with no RAN2 time but might require introduction of UE capability signalling).

Time budget: 0.5 TU

Including outcome of the email discussion [Post109e#33][R16 Other] UL TX Switching – NR-FR1 (China Telecom)

No R2 tdocs

Treated in email discussion [AT109bis-e][000]

[R2-2002504](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002504.zip) LS on MO exception data (C4-201003; contact: CATT) CT4 LS in Rel-16 5G\_CIoT To:SA2 Cc:RAN2, CT1

Proposed Noted

[R2-2002538](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002538.zip) Reply LS on Enhancements to QoS Handling for V2X Communication Over Uu Reference Point (S2-2001675; contact: Nokia) SA2 LS in Rel-16 eV2XARC To:RAN3, RAN2

Proposed Noted

FDD band capability signalling for uplink sharing

[R2-2002526](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002526.zip) LS on FDD band capability signalling for uplink sharing (R4-1916180; contact: Nokia) RAN4 LS in Rel-16 NR\_FDD\_bands\_varduplex To:RAN2

[R2-2002575](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002575.zip) ULSUP applicability to FDD bands Qualcomm Incorporated discussion Rel-16 NR\_FDD\_bands\_varduplex

[R2-2003446](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003446.zip) Discussion on UL sharing for variable-duplex FDD bands Huawei, HiSilicon discussion Rel-16 NR\_FDD\_bands\_varduplex

[R2-2002576](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002576.zip) Introduction of UE capability for ULSUP with FDD band Qualcomm Incorporated, Nokia, OPPO CR Rel-15 38.331 15.9.0 1507 - F NR\_FDD\_bands\_varduplex

[R2-2002577](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002577.zip) Introduction of UE capability for ULSUP with FDD band Qualcomm Incorporated, Nokia, OPPO CR Rel-15 38.306 15.9.0 0263 - F NR\_FDD\_bands\_varduplex

* [AT109bis-e][040][NR16 Other] FDD band capability signalling for uplink sharing (QC)

Scope: Treat papers above on FDD band capability signalling for uplink sharing

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

MPE enhancements FR2

[R2-2002527](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002527.zip) LS on MPE enhancements (R4-1916183; contact: Qualcomm) RAN4 LS in Rel-16 NR\_RF\_FR2\_req\_enh To:RAN2

[R2-2002534](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002534.zip) LS on MPE enhancements (R4-2002916; contact: Nokia) RAN4 LS in Rel-16 NR\_RF\_FR2\_req\_enh To:RAN2

1 doc moved here from 6.20.3.1 :

[R2-2002820](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002820.zip) P-MPR Reporting Apple discussion Rel-16 NR\_RF\_FR2\_req\_enh

[R2-2002684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002684.zip) UE FR2 MPE enhancements and solutions Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_RF\_FR2\_req\_enh

[R2-2002685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002685.zip) Introduction of FR2 MPE P-MPR reporting Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.0.0 1515 - B NR\_RF\_FR2\_req\_enh

[R2-2002686](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002686.zip) Introduction of FR2 MPE P-MPR reporting Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.0.0 0707 - B NR\_RF\_FR2\_req\_enh

[R2-2002687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002687.zip) Introduction of FR2 MPE P-MPR reporting Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.0.0 0272 - B NR\_RF\_FR2\_req\_enh

[R2-2002688](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002688.zip) Introduction of FR2 MPE P-MPR reporting Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.1.0 0210 - B NR\_RF\_FR2\_req\_enh

* [AT109bis-e][041][NR16 Other] MPE enhancements FR2 (Nokia)

Scope: Treat papers above on MPE enhancements FR2

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

P bit for Single Entry PHR

[R2-2002532](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002532.zip) LS on the misalignment in P-bit between single entry and multi-entry PHR (R4-2002820; contact: OPPO) RAN4 LS in Rel-16 NR\_RF\_FR2\_req\_enh To:RAN2

[R2-2002616](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002616.zip) P bit in Single Entry PHR MAC CE Samsung discussion Rel-16 NR\_RF\_FR2\_req\_enh

[R2-2003010](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003010.zip) P bit for Single Entry PHR Nokia, Nokia Shanghai Bell, Apple, Ericsson, Lenovo, NTT DOCOMO, INC. CR Rel-16 38.321 16.0.0 0716 - F TEI16 Late

Moved from 5.3.1:

[R2-2002676](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002676.zip) Discussion on P indcatior in single entry PHR OPPO discussion Rel-16

* [AT109bis-e][042][NR16 Other] P bit for Single Entry PHR (OPPO)

Scope: Treat papers above on P bit for Single Entry PHR

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

Bandwidth combination set to asymmetric bandwidths

[R2-2002533](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002533.zip) LS to RAN2 on introduction of channel bandwidth combination set to asymmetric channel bandwidths (R4-2002852; contact: Huawei) RAN4 LS in Rel-16 NR\_n66\_BW To:RAN2

[R2-2003469](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003469.zip) CR on introduction of BCS to asymmetric channel bandwidths (38.331) Huawei, HiSilicon, Telus CR Rel-16 38.331 16.0.0 1563 - B NR\_n66\_BW

[R2-2003470](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003470.zip) CR on introduction of BCS to asymmetric channel bandwidths (38.306) Huawei, HiSilicon, Telus CR Rel-16 38.306 16.0.0 0289 - B NR\_n66\_BW

[R2-2002631](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002631.zip) Introduction of asymmetric BW BCS 1 OPPO CR Rel-16 38.331 16.0.0 1509 - B NR\_n66\_BW

[R2-2002632](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002632.zip) Introduction of asymmetric BW BCS 1 OPPO CR Rel-16 38.306 16.0.0 0267 - B NR\_n66\_BW

[R2-2002633](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002633.zip) Introduction of asymmetric BW BCS 0 OPPO CR Rel-15 38.306 15.9.0 0268 - B NR\_n66\_BW

[R2-2002634](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002634.zip) Introduction of asymmetric BW BCS 0 OPPO CR Rel-16 38.306 16.0.0 0269 - A NR\_n66\_BW

* [AT109bis-e][043][NR16 Other] P bit for Single Entry P Bandwidth combination set to asymmetric bandwidths (Huawei)

Scope: Treat papers above on Bandwidth combination set to asymmetric bandwidths

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

Support for ECN in 5GS

[R2-2002537](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002537.zip) LS on the support for ECN in 5GS (S2-1912765; contact: Qualcomm) SA2 LS in Rel-15 5GS\_Ph1 To:RAN2, SA4 Cc:RAN3, CT1

[R2-2002543](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002543.zip) Reply LS on Support for ECN in 5GS (S4-200298; contact: Qualcomm) SA4 LS in Rel-15 5GS\_Ph1 To:SA2 Cc:RAN2, RAN3, CT1

[R2-2002580](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002580.zip) [DRAFT] Response LS on the support for ECN in 5GS Qualcomm Incorporated LS out Rel-16 5GS\_Ph1 To:SA2 Cc:RAN3, CT1, SA4

[R2-2003426](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003426.zip) Correction to description of ECN Ericsson CR Rel-15 38.300 15.9.0 0218 - F NR\_newRAT-Core

[R2-2003427](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003427.zip) Correction to description of ECN Ericsson CR Rel-16 38.300 16.1.0 0219 - A NR\_newRAT-Core

* [AT109bis-e][044][NR16 Other] Support for ECN in 5GS (Qualcomm)

Scope: Treat papers above on support for ECN in 5GS

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

**UL TX Switching-NR\_FR1**

[R2-2002531](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002531.zip) LS on UE Tx switching period delay and DL interruption (R4-2002816; contact: Apple) RAN4 LS in Rel-16 NR\_RF\_FR1 To:RAN1, RAN2

[R2-2003264](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003264.zip) Report of email discussion [Post109e#33][R16 Other] UL TX Switching-NR\_FR1 ChinaTelecom discussion Rel-16 NR\_RF\_FR1

=> Revised in R2-2003823

R2-2003823 Report of email discussion [Post109e#33][R16 Other] UL TX Switching-NR\_FR1 ChinaTelecom discussion Rel-16 NR\_RF\_FR1

R2-2002689 Clarifications on UL Tx switching Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_RF\_FR1 R2-2000861 Late

[R2-2003266](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003266.zip) 38331CR for UE capability and RRC configuration of supporting UL Tx switching ChinaTelecom CR Rel-16 38.331 16.0.0 1546 - B NR\_RF\_FR1

[R2-2003265](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003265.zip) 38306CR for UE capability of supporting UL Tx switching ChinaTelecom CR Rel-16 38.306 16.0.0 0277 - B NR\_RF\_FR1

[R2-2002805](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002805.zip) On Tx switching Apple CR Rel-16 38.331 16.0.0 1524 - B NR\_newRAT-Core

[R2-2002806](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002806.zip) On Tx switching Apple CR Rel-16 38.306 16.0.0 0275 - B NR\_newRAT-Core

* [AT109bis-e][045][NR16 Other] UL TX Switching-NR\_FR1 (China Telecom)

Scope: Treat papers above on UL TX Switching-NR\_FR1. If convergence is difficult, this may be treated on-line.

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

EN-DC FDD+TDD HPUE

[R2-2003448](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003448.zip) On the support of EN-DC FDD+TDD HPUE Huawei, HiSilicon discussion Rel-16 ENDC\_UE\_PC2\_FDD\_TDD-Core

[R2-2003449](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003449.zip) support of EN-DC FDD+TDD HPUE Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 B ENDC\_UE\_PC2\_FDD\_TDD-Core

[R2-2003450](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003450.zip) support of EN-DC FDD+TDD HPUE Huawei, HiSilicon draftCR Rel-16 38.306 16.0.0 B ENDC\_UE\_PC2\_FDD\_TDD-Core

* [AT109bis-e][046][NR16 Other] EN-DC FDD+TDD HPUE (Huawei)

Scope: Treat papers above on EN-DC FDD+TDD HPUE.

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

NR HST

[R2-2003508](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003508.zip) 38.331 CR on introduction of RRC parameters and UE capabilities for Rel-16 NR HST CMCC, Huawei, HiSilicon, CATT CR Rel-16 38.331 16.0.0 1464 2 B NR\_HST R2-2002085

[R2-2003509](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003509.zip) 38.306 CR on introduction of UE capabilities for Rel-16 NR HST CMCC, Huawei, HiSilicon, CATT CR Rel-16 38.306 16.0.0 0242 2 B NR\_HST R2-2002086

* [AT109bis-e][047][NR16 Other] NR HST (CMCC)

Scope: Treat papers above on NR HST. If convergence is difficult, this may be treated on-line.

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

Temporary Boost – not treated

[R2-2002738](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002738.zip) Temporary Boost Nokia, Nokia Shanghai Bell discussion Rel-16 R2-2000573

[R2-2002739](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002739.zip) LS on Temporary Boost Nokia LS out Rel-16 R2-2000574 To:SA4 Cc:RAN3, SA2

## 6.20 NR TEI16 enhancements

Small Technical Enhancements to NR. TEI should be predominantly within a single WG and fully completed within the same quarter in all affected WGs. RAN2 impact of RAN1/4-led TEI shall be limited to RRC signalling of configuration parameters and UE capabilities (no MAC impact, no RRC procedural impact, etc). Please also see [RP-191602](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191602.zip) endorsed at RAN#84. Please submit to 6.20.x.

NOTE that proponent companies are responsible to ensure that correct CRs are provided in all groups for proposals that have impact in >1 working group.

Time budget: 1 TU

Tdoc Limitation: 2 tdocs. NOTE for TEI, the tdoc limitation applies to new proposals, not to open proposals since previous meeting(s)

### 6.20.1 RAN2 led TEI16 enhancements - Control plane related

#### 6.20.1.1 Open / ongoing proposals

**5G Indicator**

[R2-2002535](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002535.zip) LS on 5G indicator (RP-193265; contact: Intel) RAN LS in Rel-16 NR\_newRAT-Core, TEI16 To:RAN2 Cc:SA, CT, GSMA

1 doc moved from 5.4.2:

[R2-2002660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002660.zip) A RAN Based Solution for the 5G Indicator VODAFONE discussion

[R2-2003420](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003420.zip) EN-DC bandlist for 5G indicator Huawei, HiSilicon, BT, Telefonica, Telecom Italia S.p.A., Samsung discussion Rel-15 36.331 NR\_newRAT

[R2-2003416](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003416.zip) Introduction of bandlist for ENDC for 5G indicator HUAWEI, HiSilicon, Telefonica, Telecom Italia S.p.A., Samsung CR Rel-16 36.331 16.0.0 4214 2 C NR\_newRAT-Core R2-2002098

[R2-2003417](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003417.zip) Introduction of bandlist for ENDC for 5G indicator Huawei, HiSilicon, Telefonica, Telecom Italia S.p.A., Samsung CR Rel-16 36.331 16.0.0 4264 - A NR\_newRAT-Core

[R2-2003418](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003418.zip) Introduction in new SIB of bandlist for ENDC for 5G indicator Huawei, HiSilicon, BT, Samsung CR Rel-15 36.331 15.9.0 4265 - C NR\_newRAT-Core

[R2-2003419](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003419.zip) Introduction in new SIB of bandlist for ENDC for 5G indicator Huawei, HiSilicon, BT, Samsung CR Rel-16 36.331 16.0.0 4266 - A NR\_newRAT-Core

[R2-2002969](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002969.zip) Upper layer indication ZTE Corporation, Sanechips discussion

* [AT109bis-e][048][TEI16] 5G Indicator (Intel)

Scope: Treat papers above on 5G indicator. If convergence is difficult, this may be treated on-line.

Wanted Outcome: Agreed solution in Agreed-in-principle CRs

Deadline: April 28 0700 UTC

**NeedForGap**

[R2-2002770](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002770.zip) Remaining issue on NR NeedForGap signaling MediaTek Inc. discussion Rel-16 TEI16

[R2-2002781](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002781.zip) Introduction of NeedForGap capability for NR measurement - 36.331 MediaTek Inc. CR Rel-16 36.331 16.0.0 4197 3 B NR\_newRAT-Core, TEI16 R2-2002108

[R2-2002782](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002782.zip) Introduction of NeedForGap capability for NR measurement - 36.306 MediaTek Inc. CR Rel-16 36.306 16.0.0 1730 1 B NR\_newRAT-Core, TEI16 R2-2000718

[R2-2002783](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002783.zip) Introduction of NeedForGap capability for NR measurement - 38.300 MediaTek Inc. CR Rel-16 38.300 16.1.0 0191 1 B NR\_newRAT-Core, TEI16 R2-2000719

[R2-2002784](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002784.zip) Introduction of NeedForGap capability for NR measurement - 38.331 MediaTek Inc. CR Rel-16 38.331 16.0.0 1453 2 B NR\_newRAT-Core, TEI16 R2-2002309

[R2-2002785](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002785.zip) Introduction of NeedForGap capability for NR measurement - 38.306 MediaTek Inc. CR Rel-16 38.306 16.0.0 0238 1 B NR\_newRAT-Core, TEI16 R2-2000721

[R2-2002811](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002811.zip) Discussion on NeedForGap Apple discussion TEI16

[R2-2002812](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002812.zip) Draft LS to RAN4 on NeedForGap Apple discussion TEI16

* [AT109bis-e][049][TEI16] Need for Gap (Mediatek)

Scope: Treat papers above on Need for Gap. If convergence is difficult, this may be treated on-line. Keep this simple please.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CRs

Deadline: April 28 0700 UTC

**Overheating**

[R2-2003467](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003467.zip) 36.331 CR for addressing overheating issue in (NG)EN-DC Huawei, Huawei Device, Apple, CATT CR Rel-16 36.331 16.0.0 4176 2 F TEI16 R2-2001325

[R2-2003468](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003468.zip) 38.331 CR for addressing overheating issue in (NG)EN-DC Huawei, Huawei Device, Apple, CATT CR Rel-16 38.331 16.0.0 1413 2 F TEI16 R2-2001326

* [AT109bis-e][050][TEI16] Overheating (Huawei)

Scope: Treat papers above on Overheating.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

**EN-DC cell reselection**

[R2-2003490](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003490.zip) Further consideration on EN-DC cell reselection CMCC,SoftBank, Ericsson, Huawei, ZTE, CATT, vivo, OPPO, Xiaomi discussion Rel-16

[R2-2003491](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003491.zip) 36.331 CR to introduce alternative cell reselection priority for EN-DC CMCC, SoftBank, Ericsson, Huawei, ZTE, CATT, vivo CR Rel-16 36.331 16.0.0 4229 1 B TEI16 R2-2002038

[R2-2003492](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003492.zip) 36.304 CR to introduce alternative cell reselection priority for EN-DC CMCC, SoftBank, Ericsson, Huawei, ZTE, CATT, vivo, OPPO CR Rel-16 36.304 16.0.0 0782 1 B TEI16 R2-2002037

[R2-2003493](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003493.zip) 36.306 CR to introduce alternative cell reselection priority for EN-DC CMCC, SoftBank, Ericsson, Huawei, ZTE, CATT, vivo, OPPO CR Rel-16 36.306 16.0.0 1755 - B TEI16

[R2-2003494](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003494.zip) 38.331 CR to introduce alternative cell reselection priority for SA CMCC, Ericsson, SoftBank, vivo CR Rel-16 38.331 16.0.0 1463 1 B TEI16 R2-2000915

[R2-2003495](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003495.zip) 38.304 CR to introduce alternative cell reselection priority for SA CMCC, Ericsson, SoftBank, vivo CR Rel-16 38.304 16.0.0 0146 1 B TEI16 R2-2000914

[R2-2003496](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003496.zip) 38.306 CR to introduce alternative cell reselection priority for SA CMCC, Ericsson, SoftBank, vivo CR Rel-16 38.306 16.0.0 0290 - B TEI16

[R2-2003723](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003723.zip) Discussion on order of two random access procedures in NR to EN-DC Samsung Electronics Co., Ltd discussion Rel-16 TEI16

[R2-2003724](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003724.zip) Further discussion on EN-DC cell reselection Samsung Electronics Co., Ltd discussion Rel-16 TEI16

[R2-2003733](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003733.zip) CR on separate cell reselection priority in EN-DC cell reselection in 36.331 Samsung Electronics Co., Ltd CR Rel-16 36.331 16.0.0 4284 - F TEI16

[R2-2003739](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003739.zip) CR on separate cell reselection priority in EN-DC cell reselection in 38.331 Samsung Electronics Co., Ltd CR Rel-16 38.331 16.0.0 1581 - F TEI16

[R2-2003754](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003754.zip) Correction on order of two random access procedures in NR to EN-DC HO Samsung Electronics Co., Ltd CR Rel-16 38.331 16.0.0 1584 - F TEI16

* [AT109bis-e][051][TEI16] EN-DC cell reselection (CMCC)

Scope: Treat papers above on EN-DC cell reselection.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

**Missing reportAddNeighMeas**

[R2-2003109](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2003109.zip) Missing reportAddNeighMeas in periodic measurement reporting Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.0.0 1290 2 F TEI16 R2-1913159

* [AT109bis-e][052][TEI16] Missing reportAddNeighMeas (Nokia)

Wanted Outcome: Agreed-in-principle CR

Deadline: April 28 0700 UTC

**TEI16 Corrections - Postponed**

[R2-2002560](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002560.zip) Corrections to PRACH prioritization procedure for MPS and MCS Samsung Electronics Co., Ltd CR Rel-16 38.321 16.0.0 0705 - F TEI16

[R2-2002561](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002561.zip) Corrections to PRACH prioritization procedure for MPS and MCS Samsung Electronics Co., Ltd CR Rel-16 38.331 16.0.0 1506 - F TEI16

[R2-2002581](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002581.zip) Correction on establishment cause value upon enhanced EPS voice fallback Qualcomm Incorporated CR Rel-16 36.331 16.0.0 4236 - F TEI16

[R2-2002677](file:///D:/Documents/3GPP/tsg_ran/WG2/RAN2/2004_R2_109bis-e/Docs/R2-2002677.zip) additional SSB-ToMeasure for smtc2-LP OPPO, ZTE, CMCC discussion Rel-16 TEI16

**Treated in positioning parallel session**

[R2-2003142](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003142.zip) Transfer of unicast RS observations with GNSS integer ambiguity level information Ericsson discussion Rel-16

#### 6.20.1.3 New proposals

This AI is not expected to be treated

[R2-2002970](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002970.zip) Updates to reestablishment procedure ZTE Corporation, Sanechips, Intel Corporation, CATT CR Rel-16 38.331 16.0.0 1143 5 C TEI16 R2-2001015

[R2-2002927](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002927.zip) On combined RRC procedures Nokia, Nokia Shanghai Bell, Ericsson discussion Rel-16 TEI16 R2-2001041

[R2-2002928](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002928.zip) RRC processing delays for combined procedures Nokia, Nokia Shanghai Bell, Ericsson CR Rel-16 38.331 16.0.0 1288 3 F TEI16 R2-2001042

[R2-2002640](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002640.zip) CR to 38.331 on missing freqBandIndicator in NR redirection Qualcomm Incorporated draftCR Rel-16 38.331 16.0.0 F TEI16

[R2-2002641](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002641.zip) CR to 36.331 on missing freqBandIndicator in NR redirection Qualcomm Incorporated draftCR Rel-16 36.331 16.0.0 F TEI16

[R2-2002764](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002764.zip) Clarification on providing network specific uac-AccessCategory1-SelectionAssistanceInfo ZTE Corporation, Sanechips discussion Rel-16 NR\_newRAT-Core

[R2-2002765](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002765.zip) CR on providing network specific uac-AccessCategory1-SelectionAssistanceInfo ZTE Corporation, Sanechips CR Rel-16 38.331 16.0.0 1520 - F NR\_newRAT-Core

[R2-2002792](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002792.zip) SRB only connection enhancement for PDU session change CATT,Huawei, HiSilicon discussion Rel-16 TEI16 R2-2000230

[R2-2002793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002793.zip) SRB only connection ehancement option 1 CATT,Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 F TEI16 R2-2000231

[R2-2002794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002794.zip) SRB only connection ehancement option 2 CATT draftCR Rel-16 38.331 16.0.0 F TEI16 R2-2000232

[R2-2002813](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002813.zip) UE Information for 0-PDCCH Apple discussion

[R2-2002884](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002884.zip) Additional UE capability filtering to limit the total number of carriers in NR Samsung discussion Rel-16 TEI16 R2-2000768

[R2-2003072](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003072.zip) Measurement priority handling in NR Ericsson discussion

[R2-2003476](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003476.zip) On the support of NG-based (i.e. via CN) handover using CGI report Huawei, HiSilicon discussion Rel-16 TEI16 R2-2001188

[R2-2003531](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003531.zip) Signalling enhancement for Inactive state CATT discussion Rel-16 TEI16 [R2-1914532](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_108\Docs\R2-1914532.zip)

[R2-2003532](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003532.zip) Bearer type negotiation CATT discussion Rel-16 TEI16 [R2-1914533](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_108\Docs\R2-1914533.zip)

### 6.20.2 RAN2 led TEI16 enhancements - User plane related

#### 6.20.2.1 Open / ongoing proposals

LCP Mapping Restrictions

[R2-2002740](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002740.zip) LCP Mapping Restrictions Nokia, Deutsche Telekom, Ericsson, Fujitsu, Nokia Shanghai Bell, NTT DOCOMO INC., T-Mobile discussion Rel-16 TEI16 R2-2000576

[R2-2002741](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002741.zip) Dynamic LCP Mapping Restrictions Nokia, Deutsche Telekom, Fujitsu, Nokia Shanghai Bell, NTT DOCOMO INC., T-Mobile CR Rel-16 38.321 16.0.0 0689 1 B TEI16 R2-2000577

[R2-2002835](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002835.zip) Cell restriction for CA duplication OPPO discussion Rel-16 TEI16 R2-2000406

* [AT109bis-e][053][TEI16] LCP Mapping Restrictions (Nokia)

Scope: Treat papers above on LCP Mapping Restrictions.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

**Secondary DRX**

[R2-2003284](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003284.zip) Introduction of secondary DRX group Ericsson, Qualcomm, Samsung, InterDigital, Deutsche Telekom, Verizon discussion Rel-16 NR\_newRAT-Core

[R2-2003285](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003285.zip) Introduction of secondary DRX group Ericsson, Qualcomm, Samsung, InterDigital, Deutsche Telekom, Verizon CR Rel-16 38.306 16.0.0 0282 - C NR\_newRAT-Core

[R2-2003286](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003286.zip) Introduction of secondary DRX group Ericsson, Qualcomm, Samsung, InterDigital, Deutsche Telekom, Verizon CR Rel-16 38.321 16.0.0 0721 - C NR\_newRAT-Core

[R2-2003287](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003287.zip) Introduction of secondary DRX group Ericsson, Qualcomm, Samsung, InterDigital, Deutsche Telekom, Verizon CR Rel-16 38.331 16.0.0 1552 - C NR\_newRAT-Core

[R2-2002836](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002836.zip) Further considerations on secondary DRX group OPPO discussion Rel-16 TEI16 R2-2000407

[R2-2002876](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002876.zip) Views on TEI for Secondary DRX Group vivo discussion Rel-16 TEI16

[R2-2003103](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003103.zip) Discussion on PDCCH-WUS works with Dual DRX Xiaomi Communications discussion

[R2-2003115](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003115.zip) Further details on Secondary DRX group NEC discussion Rel-16 TEI16

* [AT109bis-e][054][TEI16] Secondary DRX (Ericsson)

Scope: Treat papers above on Secondary DRX.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

#### 6.20.2.3 New proposals

This AI is not expected to be treated

[R2-2002912](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002912.zip) CR on PDCP security issue about duplicate detection Samsung, LG Electronics Inc., Nokia, Nokia Shanghai Bell, LG Uplus, Deutsche Telekom CR Rel-16 38.323 16.0.0 0032 4 F TEI16 R2-2000724

[R2-2002998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002998.zip) Retransmission of an RLC SDU with a poll after discard procedure LG Electronics Inc., Ericsson, NTT Docomo, LG Uplus, Sharp discussion Rel-16 TEI16 R2-2001554

[R2-2003053](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003053.zip) CFRA resource handling for BFR upon TAT expiry Nokia, Nokia Shanghai Bell, Apple, ASUSTek discussion Rel-16 TEI16

[R2-2002667](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002667.zip) RNTI ambiguity for CFRA and CBRA of 4-Step RACH Sony discussion Rel-16 TEI16 R2-2000832

1 doc Moved from 6.20.3.1:

[R2-2003593](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003593.zip) Remaining issues on the ambiguity in calculation of RA-RNTI ZTE, Sanechips discussion Rel-16 TEI16

[R2-2002742](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002742.zip) QoS Flow Handling Nokia, Nokia Shanghai Bell discussion Rel-16 TEI16 R2-2000578

[R2-2002743](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002743.zip) MDBV Enforcement Nokia, InterDigital, Nokia Shanghai Bell discussion Rel-16 TEI16 R2-2000579

[R2-2002880](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002880.zip) Unnecessary deciphering for duplicated PDUs Samsung discussion TEI16 R2-2000725

[R2-2002937](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002937.zip) ON Duration adaptation LG Electronics Inc., LG Uplus, Vivo discussion Rel-16 TEI16 R2-2001285

[R2-2003223](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003223.zip) Adaptation of QoS Flow to DRB Mapping for MDBV Enforcement Futurewei discussion Rel-16 TEI16

[R2-2003403](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003403.zip) Maximum Number of DRBs and RLC entities Nokia, Nokia Shanghai Bell discussion Rel-16

[R2-2003611](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003611.zip) Stopping ra-ResponseWindow for contention-free BFR Huawei, HiSilicon, China Unicom discussion Rel-16 TEI16

### 6.20.3 TEI16 enhancements led by other WGs

Documents submitted to this agenda item will only be treated after a decision on the TEI has been made by another group and an LS informing RAN2 of their decision has been received. Tdoc limitation does not apply.

#### 6.20.3.1 Open / ongoing proposals

DSS UE capability

Postpone yet another meeting, R2 can wait for R1 feature list

[R2-2002595](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002595.zip) Introduction of enhanced support for dynamic spectrum sharing Ericsson CR Rel-16 38.331 16.0.0 1426 1 B TEI16 R2-2000133

[R2-2002596](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002596.zip) Introduction of enhanced support for dynamic spectrum sharing Ericsson CR Rel-16 38.306 16.0.0 0221 1 B TEI16 R2-2000134

Under-Reporting CSI-RS Capabilities

Postpone to next meeting, R2 should wait for R1 Reply to LSout from 109e

[R2-2003465](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003465.zip) Discussion on release for under-reporting CSI-RS capabilities Huawei, HiSilicon, China Telecom, CMCC, China Unicom discussion Rel-16 TEI16

[R2-2003466](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003466.zip) Signalling design for under-reporting CSI-RS capabilities Huawei, HiSilicon, China Telecom, CMCC, China Unicom discussion Rel-16 TEI16

eCall over NR

Moved from AI 3:

[R2-2002549](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002549.zip) Reply LS on support for eCall over NR (SP-200287; contact: Qualcomm) SA LS in Rel-16 EIEI, 5GS\_Ph1 To:SA2, SA5, RAN2, CT1, RAN5 Cc:SA1, SA4, RAN, CT

[R2-2003564](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003564.zip) Discussion on eCall over IMS for NR Huawei, HiSilicon discussion Rel-16 TEI16

[R2-2003565](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003565.zip) Introduction of eCall over IMS for NR Huawei, HiSilicon draftCR Rel-16 38.300 16.1.0 C TEI16

[R2-2003566](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003566.zip) Introduction of eCall over IMS for NR Huawei, HiSilicon draftCR Rel-16 38.304 16.0.0 C TEI16

[R2-2003567](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003567.zip) Introduction of eCall over IMS for NR Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 C TEI16

[R2-2003568](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003568.zip) Draft reply LS on support for eCall over NR Huawei discussion Rel-16 TEI16

* [AT109bis-e][055][TEI16] eCall over NR (Huawei)

Scope: Treat papers above on eCall over NR.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

## 6.21 On demand SI in connected

On demand SI reception in RRC\_CONNECTED may be relevant to several Rel-16 WIs (e.g. V2X, positioning, IIoT, etc). This agenda item is for the discussion of the generic procedure for on demand SI in RRC\_CONNECTED; WI specific details of the SI content should be discussed within the appropriate AI for that WI.

Tdoc Limitation: 1 tdoc

Including outcome of the email discussion [Post109e#29][OdSIBconn] Open Issues (Ericsson)

Initial Plan is to treat this AI by email. If difficult to converge, on-line treatment could be possible.

* [AT109bis-e][056][OdSIBconn] On demand SI Open issue (Ericsson)

Scope: Treat papers under 6.21, by treating R2-2003204, R2-2003203 and taking into account comments. SIB9 should not be discussed until IIOT WI has made some conclusions.

Part 1: Agreed Solutions, Deadline: April 24 0700 UTC (can be extended if need)

Part 2: Agreed-in-principle CR(s)

Email Discussion & Summary

[R2-2003204](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003204.zip) Summary of [Post109e#29][OdSIBconn] Open Issues Ericsson discussion Rel-16 NR\_unlic-Core, 5G\_V2X\_NRSL-Core, NR\_IIOT-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_pos-Core

[R2-2003203](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003203.zip) Feature summary for on-demand SIB in CONNECTED Ericsson discussion Rel-16 NR\_unlic-Core, 5G\_V2X\_NRSL-Core, NR\_IIOT-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_pos-Core Late

CR

[R2-2003205](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003205.zip) Introduction of on-demand SIB in CONNECTED with positioning Ericsson draftCR Rel-16 38.331 16.0.0 B NR\_unlic-Core, 5G\_V2X\_NRSL-Core, NR\_IIOT-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_pos-Core

=> Revised in R2-2003787

R2-2003787 Introduction of on-demand SIB in CONNECTED with positioning Ericsson draftCR Rel-16 38.331 16.0.0 B NR\_unlic-Core, 5G\_V2X\_NRSL-Core, NR\_IIOT-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_pos-Core

Other

Covered by Summary

[R2-2002723](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002723.zip) Remaining issues for on-demand system information MediaTek Inc. discussion Rel-16

[R2-2002766](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002766.zip) Repetition of on demand SI request following UE mobility ZTE Corporation, Sanechips discussion Rel-16

[R2-2003070](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003070.zip) Discussion on on-demand SI in RRC-CONNECTED Huawei, HiSilicon discussion Rel-16

[R2-2003123](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003123.zip) Requesting SIBs not supported in the cell Lenovo, Motorola Mobility discussion

[R2-2003543](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003543.zip) Remaining Issues of On Demand SI in RRC Connected Samsung R&D Institute India discussion

[R2-2003582](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003582.zip) Necessity of prohibt timer for SI request in connected mode. LG Electronics France discussion

ASN.1 issues and RRC Corrections

Those are found under AI 6.0.1.

## 6.22 Physical layer enhancements for NR ultra-reliable and low latency case URLLC

(NR\_L1enh\_URLLC-Core; leading WG: RAN1; REL-16; target; June 20; WID: [RP-1915](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191563.zip)84; SR: RP-200090). Treated together with IIOT, AI 6.7. UL intra-UE prioritization and enhanced UL CG transmission should be discussed and addressed under RAN2 IIOT WI (do not submit under this AI), while the other objectives should be discussed under RAN2 eURLLC WI.

Time budget: 1 TU, will be treated together with IIOT.

Tdoc Limitation: 2 tdocs (for AI 6.22, or for 6.7 in addition to the tdoc limitation listed for 6.7)

### 6.22.1 Organizational

Running CRs etc

[R2-2003613](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003613.zip) Running CR for UE feature list for NR eURLLC Huawei, HiSilicon draftCR Rel-16 38.306 16.0.0 B NR\_L1enh\_URLLC-Core

[R2-2003614](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003614.zip) Running CR for UE feature list for NR eURLLC Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 B NR\_L1enh\_URLLC-Core

### 6.22.2 Control Plane

Initial Plan is to treat this AI by email. If difficult to converge, on-line treatment could be possible.

[R2-2003617](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003617.zip) Introduction of the new L1 parameters for eURLLC [H042][H044][H050] Huawei, HiSilicon discussion Rel-16 NR\_L1enh\_URLLC-Core

[R2-2003615](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003615.zip) Mapping between PUCCH resource ID and PUCCH Config for eURLLC Huawei, HiSilicon discussion Rel-16 NR\_L1enh\_URLLC-Core

[R2-2003612](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003612.zip) Running RRC CR by capturing updated L1 parameters for NR eURLLC Huawei, HiSilicon draftCR Rel-16 38.331 16.0.0 F NR\_L1enh\_URLLC-Core

[R2-2003667](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003667.zip) Draft 38.331 CR on L1 parameters LG Electronics draftCR Rel-16 38.331 16.0.0 B NR\_L1enh\_URLLC

* [AT109bis-e][057][URLLC] RRC L1 Configuration (Huawei)

Scope: Treat papers under 6.22.2,

Wanted outcome: Agreed-in-principle RRC CR,

Deadline: April 29 0700 UTC (rapporteur may introduce intermediate deadline if needed)

### 6.22.3 User Plane

Initial Plan is to treat this AI by email. If difficult to converge, on-line treatment could be possible.

[R2-2002714](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002714.zip) on MAC CE design for eURLLC Ericsson discussion NR\_L1enh\_URLLC-Core

[R2-2003616](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003616.zip) Remaining issues of MAC aspects for eURLLC Huawei, HiSilicon discussion Rel-16 NR\_L1enh\_URLLC-Core

* [AT109bis-e][058][URLLC] MAC remaining issues(Huawei)

Scope: Treat papers under 6.22.3, and the MAC impact from R2-2003612

Wanted outcome: Agreed-in-principle MAC CR,

Deadline: April 29 0700 UTC (rapporteur may introduce intermediate deadline if needed)

# 7 Rel-16 LTE Work Items

Documents in these agenda items will be handled in break out sessions

## 7.0 LTE Rel-16 General

### 7.0.1 ASN.1 review

Including outcome of the email discussion [Post109e#52][ASN.1] RRC ASN.1 review LTE specific (Samsung)

R2-2003231 General ASN.1 issues for 36.331 Rel-16 (S001- S006) Samsung Telecommunications discussion Rel-16 Late

R2-2003234 ASN.1 Review file (LTE) Samsung Telecommunications draftCR Rel-16 36.331 16.0.0 F TEI16 Late

R2-2003235 LTE Rel-16 ASN.1 Review, Class 0 and Class 1 issues Samsung Telecommunications report Rel-16 Late

R2-2003389 General ASN.1 issues for 36.331 Rel-16 (S001- S006) Samsung Telecommunications discussion Rel-16 Late Withdrawn

R2-2003392 ASN.1 Review file (LTE) Samsung Telecommunications draftCR Rel-16 36.331 16.0.0 F TEI16 Late Withdrawn

R2-2003393 LTE Rel-16 ASN.1 Review, Class 0 and Class 1 issues Samsung Telecommunications report Rel-16 Late Withdrawn

### 7.0.2 Features and UE capabilities

R2-2002550 LS on Rel-16 RAN1 UE features lists for LTE (R1-2001486; contact: NTT DOCOMO) RAN1 LS in Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_terr\_bcast-Core To:RAN2; Cc:RAN4

## 7.1 Additional MTC enhancements for LTE

(LTE\_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; target; June 20; WID: [RP-191356](file:///C:\Data\3GPP\TSGR\TSGR_84\docs\RP-191356.zip); SR: RP-200309)

Time budget: 2.5 TU

Documents in this agenda item will be handled in a break out session

Some sub-items in 7.1 and 7.2 may be treated jointly.

One CR per specification will be provided by the corresponding rapporteur. No individual company CRs are expected. Companies should provide TPs when needed.

### 7.1.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs.

A web conference may be used for handling some of the discussions in this AI.

R2-2002503 Reply LS on Mobile-terminated Early Data Transmission (C1-201062; contact: Ericsson) CT1 LS in Rel-15 LTE\_eMTC5-Core, NB\_IOTenh3-Core, 5G\_CIoT To:RAN2, SA2 Cc:CT4, RAN3, RAN, SA

R2-2002849 Miscellaneous Rel-16 eMTC corrections Qualcomm Incorporated CR Rel-16 36.331 16.0.0 4239 - F LTE\_eMTC5-Core

R2-2003351 Minor corrections and resolving Editor's Notes in TS36321 Ericsson discussion NB\_IOTenh3-Core, LTE\_eMTC5-Core

### 7.1.2 Mobile-terminated MT early data transmission EDT

MT Early Data transmission for MTC and NB-IoT is treated jointly under this AI.

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on the submitted tdocs). A web conference may be used for handling the discussions in this AI.

### 7.1.3 Scheduling multiple DL/UL transport blocks

Scheduling multiple DL/UL transport blocks with or without DCI for SC-PTM and unicast. Scheduling multiple DL/UL transport blocks for MTC and NB-IoT is treated jointly under this AI.

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on the submitted tdocs). A web conference may be used for handling the discussions in this AI.

R2-2003352 drx-InactivityTimer for LTE-M when scheduling multiple TBs Ericsson discussion LTE\_eMTC5-Core

### 7.1.4 Quality report in Msg3

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on the submitted tdocs). A web conference may be used for handling the discussions in this AI.

R2-2003134 Solution for the short quality reporting for eMTC Ericsson discussion Rel-16

R2-2003182 Msg3 Quality report way forward on open issue Qualcomm Incorporated discussion Rel-16 LTE\_eMTC5-Core

R2-2003183 Introduce 2-bit CQI based on Solution 1 Qualcomm Incorporated draftCR Rel-16 36.321 16.0.0 LTE\_eMTC5-Core

R2-2003343 TP for 2-bit Quality report in Msg3 Huawei, HiSilicon discussion Rel-16 LTE\_eMTC5-Core

R2-2003785 Summary of Channel Quality report open issues Huawei discussion Rel-16 LTE\_eMTC5-Core

### 7.1.5 MPDCCH performance improvement using CRS

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on the submitted tdocs). A web conference may be used for handling the discussions in this AI.

### 7.1.6 Improvements for non-BL UEs

CE mode A and B improvements for non-BL UEs among “enhancements to idle mode mobility”, “UE demodulation performance requirements for 2 RX antennas and full duplex FDD”, “Dual layer DL reception”, “Feedback based on CSI-RS”, “ETWS/CMAS in connected mode”

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on submitted tdocs). A web conference may be used for handling the discussions in this AI.

R2-2002879 Non-BL UE in enhanced coverage mode in “normal” cell Intel Corporation discussion Rel-16 LTE\_eMTC5-Core

R2-2003344 Enhancements to idle mode mobility for non-BL UEs Huawei, HiSilicon discussion Rel-16 LTE\_eMTC5-Core

R2-2003353 S-Criterion interpretation for non-BL UEs Ericsson discussion LTE\_eMTC5-Core

R2-2003791 Summary of AI 7.1.6 Improvements for non-BL UEs Ericsson discussion Rel-16 LTE\_eMTC5-Core

### 7.1.7 Stand-alone deployment

Enable the use of LTE control channel region for DL transmission (MPDCCH/PDSCH) to BL/CE UEs

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on the submitted tdocs). A web conference may be used for handling the discussions in this AI.

R2-2003354 Remaining issues for LTE-M standalone deployment Ericsson discussion LTE\_eMTC5-Core

R2-2003771 Finalization of TP for cell selection at standalone cell Nokia, Nokia Shanghai Bell discussion Rel-16 Late

R2-2003792 Summary of AI 7.1.7 Standalone operation Ericsson discussion Rel-16 LTE\_eMTC5-Core

### 7.1.8 Mobility Enhancements

Improving the DL RSRP and, RSRQ measurement accuracy, through use of RSS, relaxation of RRM measurements for serving cell for UEs using WUS for at least low mobility UEs

Including the outcome of [Post109e#05][eMTC R16] TP for RSS (Ericsson). A web conference may be used for handling the discussions in this AI. No contributions are expected for this AI. Please provide your input to the email discussion.

R2-2003138 Introduction of RSS Configurations Ericsson CR Rel-16 36.331 16.0.0 4246 - B LTE\_eMTC5-Core

R2-2003141 Report on Email discussion RSS Configurations Ericsson discussion Rel-16

R2-2003188 Permit early implementation of relaxed serving cell measurement Qualcomm Incorporated draftCR Rel-16 36.331 16.0.0 LTE\_eMTC5-Core Late

R2-2003814 Addressing FFSs for RSS configuration ZTE Corporation, Sanechips, Ericsson discussion Rel-16 LTE\_eMTC5-Core Late

### 7.1.9 Coexistence with NR

Study NR and LTE specifications to identify possible issues related to coexistence of MTC with NR

Coexistence with NR for MTC and NB-IoT is treated jointly under this AI. This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting. A web conference may be used for handling some of the discussions in this AI.

R2-2003477 Further discussion on NB-IoT coexistence with NR ZTE Corporation, Sanechips discussion Rel-16 NB\_IOTenh3-Core

R2-2003478 Further discussion on eMTC coexistence with NR ZTE Corporation, Sanechips discussion Rel-16 LTE\_eMTC5-Core

### 7.1.10 Connection to 5GC

Connection to 5GC for MTC and NB-IoT is treated jointly under this AI. This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on the submitted tdocs). A web conference of an offline discussion may be used for handling the discussions in this AI.

Includes [Post109e#47][NBIOT/EMTC] Connection to 5GC open issues (Qualcomm)

R2-2002607 Report for [Post109e#47][eMTC/NB-IoT] Connection to 5GC Open Issues Qualcomm India Pvt Ltd discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

R2-2002609 Idle Mode cell reselection based on CN type supported Qualcomm Incorporated, TurkCell discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core R2-1914789

R2-2002610 Early UE capability retrieval enhancements for eMTC/5GC Qualcomm India Pvt Ltd discussion Rel-16 LTE\_eMTC5-Core R2-2000536

R2-2002611 [Draft] LS on early UE capability retrieval for eMTC connected to both EPC and 5GC Qualcomm India Pvt Ltd LS out Rel-16 LTE\_eMTC5-Core To:SA2 Cc:CT1, RAN3

R2-2002929 Draft reply LS on suspension indication to 5G NAS Qualcomm India Pvt Ltd LS out Rel-16 LTE\_eMTC5-Core To:CT1

R2-2003428 AS RAI and optimization of release Ericsson, LG Electronics Inc., Sony, Sierra Wireless, Thales, Lenovo, Motorola Mobility, MediaTek Inc., Turkcell discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core R2-2001478

R2-2003430 LS on AS RAI and optimization of release Ericsson LS out Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core To:SA2 Cc:RAN3

R2-2003796 [Pre109bis-e][NBIOT/eMTC] Summary of eMTC/NB-IoT connected to 5GC Qualcomm discussion Rel-16 LTE\_eMTC5-Core

### 7.1.11 MTC UE capabilities

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting (decision to be made based on the submitted tdocs). A web conference may be used for handling the discussions in this AI.

Includes [Post109e#16] [eMTC R16] 36.306 CR (Huawei)

R2-2003341 Update to UE capabilities for eMTC Huawei, HiSilicon CR Rel-16 36.306 16.0.0 1752 - C LTE\_eMTC5-Core Late

### 7.1.12 ASN.1 review MTC

*Including documents related to class 2/3 ASN.1 review issues that require WI-specific discussion. A web conference may be used for handling the discussions in this AI.*

R2-2002841 [Q501] Corrections to resumption of SRB1 in TS 36.331 subclause 5.3.3.3a Qualcomm Incorporated discussion Rel-16 LTE\_eMTC5-Core

R2-2003268 Capture AS context discard when CN type change ZTE Corporation, Sanechips draftCR Rel-16 36.331 16.0.0 LTE\_eMTC5-Core, NB\_IOTenh3-Core

R2-2003279 Correction on trigger for MT-EDT ZTE Corporation, Sanechips draftCR Rel-16 36.331 16.0.0 LTE\_eMTC5-Core, NB\_IOTenh3-Core

### 7.1.13 Other

MTC specific issues. This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting. A web conference may be used for handling some of the discussions in this AI.

R2-2003185 Interworking between Cat M and NR Qualcomm Incorporated discussion LTE\_eMTC5-Core

R2-2003186 Draft Reply LS on category M devices and NR Qualcomm Incorporated LS out LTE\_eMTC5-Core To:SA2

R2-2003187 Calrify interworking between Cat M and NR is not supported. Qualcomm Incorporated draftCR Rel-16 36.300 16.1.0 F LTE\_eMTC5-Core

## 7.2 Additional enhancements for NB-IoT

(NB\_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; target; June 20; WID: RP-200293; SR: RP-200440)

Time budget: 2.5 TU

Documents in this agenda item will be handled in a break out session

Some sub-items in 7.1 and 7.2 may be treated jointly.

### 7.2.1 Organisational

Including incoming LSs, draft TS, rapporteur inputs, etc

A web conference will be used for handling some of the discussions in this AI.

One CR per specification will be provided by the corresponding rapporteur. No individual company CRs are expected. Companies should provide TPs when needed.

R2-2002587 RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC Document Rapporteur (BlackBerry) other Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

R2-2003249 Miscellaneous corrections to TS 36.300 for Rel-16 NB-IoT Huawei, HiSilicon CR Rel-16 36.300 16.1.0 1277 - F NB\_IOTenh3-Core

R2-2003744 Miscellaneous corrections to 36.331 for Rel-16 NB-IoT Huawei, HiSilicon CR Rel-16 36.331 16.0.0 4287 - F NB\_IOTenh3-Core Late

R2-2003745 Miscellaneous corrections to 36.302 for Rel-16 NB-IoT Huawei, HiSilicon CR Rel-16 36.302 16.0.0 1209 - F NB\_IOTenh3-Core Late

### 7.2.2 UE-group wake-up signal WUS

UE group wake Up signal for MTC and NB-IoT is treated jointly under this Agenda Item.

A web conference will be used for handling some of the discussions in this AI.

Includes [Post109e#32][NBIOT/EMTC] Finalise the 36.304 Text for WUS (Nokia)

Includes [Post109e#45][NBIOT/EMTC] WUS open issues (Ericsson)

All identified critical open issues should be provided to the rapporteur via email discussion Post109e#45 and new contributions on those topics are discouraged.

R2-2002671 On supporting UE group WUS operation with mobility Sony discussion Rel-16 NB\_IOTenh3-Core

R2-2003101 Consideration on WUS paging probability parameter Lenovo, Motorola Mobility discussion Rel-16

R2-2003102 Group WUS for mobile UE Lenovo, Motorola Mobility discussion Rel-16

R2-2003184 Clarification of WUS resource configuration Qualcomm Incorporated draftCR Rel-16 36.331 16.0.0 LTE\_eMTC5-Core

R2-2003328 E-mail-Discussion-Summary for Post109e-32 : Finalise TP for TS36.304 for WUS Nokia, Nokia Shanghai Bell discussion Rel-16

R2-2003329 Draft TP for TS36.304 Nokia, Nokia Shanghai Bell discussion Rel-16

R2-2003431 Report - Email discussion [Post109e#45][NB-IoT/eMTC] WUS open issues Ericsson discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core Late

R2-2003485 Formula for WUS group selection ZTE Corporation, Sanechips discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

R2-2003741 Signalling changes for GWUS Resource mapping for eMTC Nokia Solutions & Networks (I) discussion Rel-16

### 7.2.3 Transmission in preconfigured resources

Transmission in preconfigured resources for MTC and NB-IoT is treated jointly under this Agenda Item.

A web conference will be used for handling some of the discussions in this AI.

Includes [Post109e#46][NBIOT/EMTC] PUR open issues (Huawei)

All identified critical open issues should be provided to the rapporteur via email discussions Post109e#46 and new contributions on those topics are discouraged.

R2-2003257 Complete the HARQ process for PUR ZTE Corporation, Sanechips draftCR Rel-16 36.321 16.0.0 NB\_IOTenh3-Core, LTE\_eMTC5-Core

R2-2003258 Correction on successful PUR transmission indication ZTE Corporation, Sanechips draftCR Rel-16 36.321 16.0.0 LTE\_eMTC5-Core, NB\_IOTenh3-Core

R2-2003267 Correction on TA timer maintenance ZTE Corporation, Sanechips draftCR Rel-16 36.321 16.0.0 LTE\_eMTC5-Core, NB\_IOTenh3-Core

R2-2003278 Capture RRC setup using PUR ZTE Corporation, Sanechips draftCR Rel-16 36.331 16.0.0 LTE\_eMTC5-Core, NB\_IOTenh3-Core

R2-2003331 Security Aspects of PUR Configuration for CP Nokia, Nokia Shanghai Bell discussion

R2-2003355 Moving UL grant handling from MAC to RRC for PUR Ericsson, Huawei, HiSilicon discussion NB\_IOTenh3-Core, LTE\_eMTC5-Core

R2-2003415 TA validation based on serving cell RSRP change (related to RAN4 LSes) Sierra Wireless, S.A. discussion Rel-16 R2-2000443

R2-2003429 Configuration and adjustment of repetition number Sierra Wireless, S.A. discussion Rel-16

R2-2003652 Remaining issues of D-PUR TA timer in MAC ASUSTeK discussion Rel-16 38.321 NB\_IOTenh3-Core

R2-2003653 PUR configuration maintenance during RRC state transition ASUSTeK discussion Rel-16 36.331 NB\_IOTenh3-Core

R2-2003746 Report of email discussion [Post109e#46][NBIOT/EMTC] PUR open issues Huawei report Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core Late

### 7.2.4 NB-IoT Specific

NB-IoT specific topics

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting.

A web conference will be used for handling some of the discussions in this AI.

Includes [Post109e#15][NBIOT] UE specific DRX: DRX cycle values (Sequans)

R2-2003131 To Verify ANR Measurements Ericsson, Nokia, Nokia Shanghai Bell, ZTE Corporation discussion Rel-16

R2-2003133 Logging of CE Level for RLF and ANR measurements Ericsson discussion Rel-16

R2-2003139 Draft LS to RAN4 on ANR Measurements Ericsson [To be RAN2] LS out Rel-16 NB\_IOTenh3-Core To:RAN4

R2-2003247 SON remaining issues Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core

R2-2003291 Remaining FFSs for SON in NB-IoT ZTE Corporation, Sanechips discussion Rel-16 NB\_IOTenh3-Core

R2-2003669 Report of [Post109e#15][NBIOT] UE specific DRX DRX cycle values Sequans Communications discussion Rel-16 NB\_IOTenh3-Core

R2-2003747 Introduction of UE specific DRX for NB-IoT Huawei, HiSilicon, MediaTek, CMCC, China Unicom, Ericsson, Lenovo, Motorola Mobility discussion Rel-16 NB\_IOTenh3-Core

=> Revised in R2-2003780

R2-2003780 Introduction of UE specific DRX for NB-IoT Huawei, HiSilicon, MediaTek, CMCC, China Unicom, Ericsson, Lenovo, Motorola Mobility, Vodafone discussion Rel-16 NB\_IOTenh3-Core

=> Revised in R2-2003815

R2-2003815 Introduction of UE specific DRX for NB-IoT Huawei, HiSilicon, MediaTek, CMCC, China Unicom, Ericsson, Lenovo, Motorola Mobility, Vodafone, China Telecom discussion Rel-16 NB\_IOTenh3-Core

R2-2003748 [Draft] Reply LS on Rel-16 NB-IoT enhancements Huawei LS out Rel-16 NB\_IOTenh3-Core To:CT1, RAN3 Cc:SA2

R2-2003749 [Draft] LS on UE specific DRX in NB-IoT Huawei LS out Rel-16 NB\_IOTenh3-Core To:RAN4

R2-2003786 Summary of SON/ANR open issues Huawei discussion Rel-16 NB\_IOTenh3-Core

### 7.2.5 NB-IoT UE capabilities

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting.

A web conference will be used for handling some of the discussions in this AI.

Includes [Post109e#14][NBIOT] 36.306 CR (Blackberry)

R2-2002588 Updates for Rel-16 additional enhancements NB-IoT BlackBerry UK Limited CR Rel-16 36.306 16.0.0 1746 - C NB\_IOTenh3-Core Late

R2-2003248 UE capabilities, TDD/FDD differentiation and 5GC applicability for NB-IoT and eMTC Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

### 7.2.6 ASN.1 review of NB-IoT

*Including documents related to Class 2/3 ASN.1 review issues that require WI-specific discussion.*

A web conference will be used for handling some of the discussions in this AI.

R2-2003250 [H108][H109] TP on WUS sugnalling for per gap configuration Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core Late

R2-2003251 [H228][H229] TP on multipe TB schedullng in NB-IoT Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core Late

## 7.3 Even further mobility enhancement in E-UTRAN

(LTE\_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; target; Mar 20; WID: RP-190921)

No documents should be submitted to 7.3.

Treated together with 6.9,

A web conference may be used for handling some of the discussions in this WI, and summary document may be provided for some agenda items under 7.3.

### 7.3.1 Organizational

Including incoming LSs and rapporteur inputs (if any).

R2-2003262 36300CR for Introduction of Even futher Mobility enhancement in E-UTRAN ChinaTelecom CR Rel-16 36.300 16.1.0 1278 - B LTE\_feMob

R2-2003263 UE Capability for Rel-16 LTE even further mobility enhancement ChinaTelecom CR Rel-16 36.306 16.0.0 1751 - B LTE\_feMob Late

R2-2003370 UE Capability for Rel-16 LTE even further mobility enhancement Intel Corporation draftCR Rel-16 36.331 16.0.0 LTE\_feMob-Core

R2-2003777 Correction on introduction of DAPS handover China Telecommunications CR Rel-16 36.300 16.1.0 1279 - B LTE\_feMob Late

### 7.3.2 Reduction in user data interruption for dual active protocol stack DAPS handover

DAPS handovers for LTE and NR are treated jointly in under this AI.

No documents should be submitted to 7.3.2. Please submit to 7.3.2.x.

#### 7.3.2.1 Open issues and corrections for user plane aspects of DAPS HO

Including document on user plane-related open issues and corrections for DAPS HO.

*Including UP-related outcome of email discussion [Post109e#11][MOB] Resolving open issues for DAPS (Intel)*

Contributions on issues already resolved by the email discussion Post109e#11][MOB] are discouraged.

Tdoc Limitation per company: 1 tdoc

R2-2002590 Open issues for user plane aspects of DAPS HO Ericsson discussion Rel-16 NR\_Mob\_enh-Core

R2-2002608 PDCP Status Reporting enhancements for DAPS DRBs Qualcomm India Pvt Ltd discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

R2-2002737 PDCP Status Report for UM DRBs in DAPS HO MediaTek Inc. discussion

R2-2002864 Handling of compressed PDCP SDUs stored in reception buffer LG Electronics Inc. discussion LTE\_feMob-Core

R2-2002868 CR on 36.321 for LTE feMob vivo CR Rel-16 36.321 16.0.0 1468 - F LTE\_feMob-Core

R2-2002869 CR on 38.321 for NR mobility enhancement vivo CR Rel-16 38.321 16.0.0 0710 - F NR\_Mob\_enh-Core

R2-2002874 Remaining user plane issues of DAPS vivo discussion Rel-16 LTE\_feMob-Core

R2-2002953 Discussion on PDCP status report for UM DRB OPPO discussion Rel-16 NR\_Mob\_enh-Core

R2-2002997 Handling of security issue for DAPS without key change NEC discussion Rel-16 LTE\_feMob-Core

R2-2003045 Discussion on transmitting ROHC IR packets in target during DAPS HO Huawei, HiSilicon, Vivo, Oppo, NEC, Apple, NTT DOCOMO INC., China Telecom discussion Rel-16 LTE\_feMob-Core

R2-2003330 On Remaining Issues for DAPS UP Nokia, Nokia Shanghai Bell discussion Rel-16

R2-2003665 RoHC handling for inter-gNB and intra-gNB DAPS handover SHARP Corporation discussion Rel-16 LTE\_feMob-Core

#### 7.3.2.2 Open issues and corrections for control plane aspects of DAPS HO

Including document on control plane-related open issues and corrections for DAPS HO other than UE capabilities.

*Including CP-related outcome of email discussion [Post109e#11][MOB] Resolving open issues for DAPS (Intel).*

Contributions on issues already resolved by the email discussion Post109e#11][MOB] are discouraged.

Tdoc Limitation per company: 1 tdoc

R2-2002591 Subsequent RRC Procedures after DAPS handover Ericsson discussion Rel-16 NR\_Mob\_enh-Core

R2-2002860 Clean up the terminology for RRC and PDCP LG Electronics Inc, Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

R2-2002875 Remaining control plane issues of DAPS vivo discussion Rel-16 LTE\_feMob-Core

R2-2002952 Correction on DAPS HO OPPO draftCR Rel-16 38.331 16.0.0 F NR\_Mob\_enh-Core

R2-2003046 Discussion on control plane aspects of DAPS HO Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core

R2-2003108 Remaining control plane issues for DAPS Nokia, Nokia Shanghai Bell discussion Rel-16 LTE\_feMob-Core

R2-2003371 Report of 109b#11 open issues on DAPS Intel Corporation discussion Rel-16 LTE\_feMob-Core, NR\_Mob\_enh-Core

R2-2003372 38.331 CR on NR MOB Intel Corporation draftCR Rel-16 38.331 16.0.0 NR\_Mob\_enh-Core

R2-2003502 Discussion on network coordination and PHR report for DAPS HO CMCC. discussion Rel-16 LTE\_feMob-Core

R2-2003530 Indication of DAPS Handover Execution to the Source ETRI discussion Rel-16 LTE\_feMob-Core, NR\_Mob\_enh-Core

#### 7.3.2.3 UE capabilities for DAPS HO

*Including any UE capability aspects triggered by RAN1/4 or related to existing RAN2 UE capability discussions of DAPS (for both LTE and NR).*

*The documents in this agenda item may be deprioritized in this meeting or used as input to post-meeting email discussion(s).*

Tdoc Limitation per company: 1 tdoc

R2-2002592 Inter-node signalling for DAPS handover Ericsson discussion Rel-16 NR\_Mob\_enh-Core

R2-2002905 Consideration on DAPS Capability LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

R2-2003030 UE capabilities for DAPS Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core Late

R2-2003047 Discussion on open issues for UE capability coordination Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core

R2-2003367 Discussion on capabilities for MOB Intel Corporation discussion Rel-16 LTE\_feMob-Core, NR\_Mob\_enh-Core

### 7.3.3 Conditional handover

*Contributions on conditional handover for LTE and NR are treated jointly in under 6.9.3. Do not use this AI for any item that can be discussed jointly.*

Tdoc Limitation per company: 0 tdoc.

### 7.3.4 ASN.1 review of mobility WIs for LTE RRC

*Including documents related to Class 3 ASN.1 review issues.*

*This agenda item focuses on* ***LTE RRC*** *aspects of both LTE and NR mobility WIs – NR RRC aspects of both LTE and NR mobility WIs should be submitted to 6.9.5. Do not submit contributions on WI-specific open issues that are not captured in the current LTE RRC to this agenda item.*

R2-2003040 Correction CR for conditional handover including RIL E901 Ericsson CR Rel-16 36.331 16.0.0 4243 - F LTE\_feMob-Core

## 7.4 Further performance enhancement for LTE in high speed scenario

(LTE\_high\_speed\_enh2-Core; leading WG: RAN4; REL-16; started: Jun 18; target; Sep 19; WID: RP-181482)

Time budget: 0 TU.

This item is 100%

Only documents related to Class 3 ASN.1 review issues should be submitted.

This agenda item will be treated fuily over email - No web conference is planned for this agenda item.

## 7.5 Other LTE Rel-16 WIs

This agenda item is to be used for LSs and documents relating to Rel-16 LTE but for which there is no existing RAN WI/SI (e.g. LSs from CT/SA requesting RAN2 action) or for which there is no allocated RAN2 time.

Including documents related to Class 3 ASN.1 review issues.

A joint summary document of 7.5 and 7.6 may be provided by session chair.

## 7.6 LTE TEI16 enhancements

Small Technical Enhancements to LTE. TEI should be predominantly within a single WG and fully completed within the same quarter in all affected WGs. RAN2 impact of RAN1/4-led TEI shall be limited to RRC signalling of configuration parameters and UE capabilities (no MAC impact, no RRC procedural impact, etc). Please also see RP-191602 endorsed at RAN#84.

Time budget: 1 TU

Including documents related to Class 3 ASN.1 review issues. New TEI16 proposals are discouraged and may be deprioritized in this meeting.

A joint summary document of 7.5 and 7.6 may be provided by session chair.

R2-2002887 CR on RLC out-of-order delivery configuration Samsung, LG Electronics Inc., Nokia, Nokia Shanghai Bell, Intel, Apple CR Rel-16 36.331 16.0.0 4240 - F TEI16

R2-2002888 LTE RLC out-of-order delivery configuration Samsung, LG Electronics Inc., Nokia, Nokia Shanghai Bell, Intel, Apple discussion TEI16

R2-2003842 Summary of LTE contributions in AIs 7.4, 7.5, 7.6, 7.8 and 7.9 Nokia (RAN2 vice-chair) discussion Late

## 7.7 Support of Indian Navigation Satellite System NavIC

(LCS\_NAVIC; leading WG: RAN2; REL-16; started: Sept 19; target; March-20; WID: RP-192350)

Time budget: 0 TU Final agreement of CRs is expected

This item is 100%

R2-2003821 [CR to add IE NavModel-NavIC-KeplerianSet] Introduction of UE capabilities for DL MIMO efficiency enhancement Reliance Jio CR Rel-16 37.355 16.0.0 0257 - F LCS\_NAVIC-Core

## 7.8 DL MIMO efficiency enhancements for LTE

(LTE\_DL\_MIMO\_EE-Core; leading WG: RAN1; REL-16;target; March-20; WID: RP-182901)

Time budget: 0.5 TU

This item is 100%

This agenda item will be treated fuily over email - No web conference is planned for this agenda item.

Only documents related to Class 3 ASN.1 review issues should be submitted.

R2-2003546 Introduction of UE capabilities for DL MIMO efficiency enhancement Huawei, Hisilicon CR Rel-16 36.331 16.0.0 4272 - F LTE\_DL\_MIMO\_EE-Core

R2-2003547 Introduction of UE capabilities for DL MIMO efficiency enhancement Huawei, Hisilicon CR Rel-16 36.306 16.0.0 1756 - F LTE\_DL\_MIMO\_EE-Core

## 7.9 LTE-based 5G Terrestrial Broadcast

(LTE\_terr\_bcast-Core; leading WG: RAN1; REL-16; target; March-20; WID: RP-182924)

Time budget: 0.5 TU.

This item is 100%

This agenda item will be treated fuily over email - No web conference is planned for this agenda item.

Only documents related to Class 3 ASN.1 review issues should be submitted.

R2-2003364 Correction on the configuration of subframe #0 and #5 for MCH in MBMS dedicated cell Qualcomm Technologies Int CR Rel-16 36.331 16.0.0 4259 - F LTE\_terr\_bcast-Core

R2-2003544 Discussion on MCCH configuration for 0.37kHz SCS Huawei, Hisilicon discussion

R2-2003545 Clarification on MCCH configuration for 0.37kHz SCS Huawei, Hisilicon CR Rel-16 36.331 16.0.0 4271 - F LTE\_terr\_bcast-Core

# 8 Breakout session reports

No documents shall be submitted to this AI or its sub-AIs. It is only for at-meeting-generated contents.

Breakout session reports will be approved by email.

### 8.1 Session on LTE legacy, LTE TEI16 and NR/LTE Rel-16 Mobility

R2-2003801 Report from session on LTE legacy, LTE TEI16 and NR/LTE Rel-16 Mobility Vice Chairman (Nokia) report

### 8.2 Session on SRVCC, CLI, PRN, eMIMO, RACS

R2-2003802 Report from Break-Out Session on SRVCC, CLI, PRN, eMIMO, RACS Vice Chairman (ZTE) report

### 8.3 Session on eMTC

R2-2003803 Report eMTC breakout session Session chair (Ericsson) report

### 8.4 Session on NR-U, Power Savings, NTN and 2-step RACH

R2-2003804 Session minutes for NR-U, Power Savings, NTN and 2-step RACH Session chair (InterDigital) report

### 8.5 Session on Rel-15 and 16 LTE and NR positioning

R2-2003805 Report from session on Rel-15 and 16 LTE and NR positioning Session chair (MediaTek) report

### 8.6 Session on SON/MDT

R2-2003806 Report from SOM/MDT session Session chair (CMCC) report

### 8.7 Session on NB-IoT

R2-2003807 Report NB-IoT breakout session Session chair (Huawei) report

### 8.8 Session on LTE V2X and NR V2X

R2-2003808 Report from session on LTE V2X and NR V2X Session chair (Samsung) report