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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002551.zip), [R2-2003537](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003537.zip), [R2-2003538](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003538.zip), [R2-2002697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002697.zip), [R2-2002698](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002698.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002917.zip), [R2-2002948](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002948.zip), [R2-2002949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002949.zip), [R2-2002886](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002886.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003334.zip), [R2-2003335](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003335.zip), [R2-2003336](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003336.zip), [R2-2003337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003337.zip), [R2-2002985](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002985.zip), [R2-2002986](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002986.zip), [R2-2003697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003697.zip), [R2-2003698](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003698.zip).

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002681.zip), [R2-2002682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002682.zip), [R2-2002683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002683.zip), [R2-2003071](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003071.zip), [R2-2003386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003386.zip), [R2-2003196](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003196.zip), [R2-2003197](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003197.zip), [R2-2002787](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002787.zip), [R2-2003480](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003480.zip), [R2-2003483](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003483.zip),

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003690.zip), [R2-2003691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003691.zip), [R2-2003692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003692.zip), [R2-2003693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003693.zip), [R2-2003694](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003694.zip), [R2-2003695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003695.zip), [R2-2003670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003670.zip), [R2-2003671](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003671.zip), [R2-2003778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003778.zip),

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003690.zip), [R2-2003691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003691.zip), [R2-2003692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003692.zip), [R2-2003693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003693.zip), [R2-2003694](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003694.zip), [R2-2003695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003695.zip), [R2-2003670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003670.zip), [R2-2003671](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003671.zip), [R2-2003778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003778.zip),

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002692.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002552.zip), [R2-2002990](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002990.zip), [R2-2003456](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003456.zip), [R2-2003816](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003816.zip), [R2-2003817](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003817.zip), [R2-2003457](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003457.zip), [R2-2003458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003458.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002571.zip), [R2-2002572](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002572.zip), [R2-2002696](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002696.zip), [R2-2002578](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002578.zip), [R2-2002679](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002679.zip), [R2-2002724](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002724.zip), [R2-2003463](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003463.zip), [R2-2003464](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003464.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003306.zip), [R2-2003307](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003307.zip), [R2-2003280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003280.zip), [R2-2003281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003281.zip), [R2-2003459](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003459.zip), [R2-2003460](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003460.zip), [R2-2003461](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003461.zip), [R2-2003462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003462.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002694.zip), [R2-2002695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002695.zip), [R2-2002637](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002637.zip), [R2-2002636](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002636.zip), [R2-2002989](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002989.zip), [R2-2002678](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002678.zip), [R2-2003541](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003541.zip), [R2-2003542](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003542.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003339.zip), [R2-2003773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003773.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003014.zip), [R2-2002728](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002728.zip), [R2-2003178](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003178.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003011.zip) (and other non-controversial corrections if any), [R2-2003561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003561.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002691.zip) (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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003020.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003813.zip), and [R2-2003726](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003726.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002522.zip), [R2-2002523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002523.zip) and [R2-2002672](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002672.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003012.zip), [R2-2003013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003013.zip), [R2-2003179](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003179.zip), [R2-2003346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003346.zip)

Part 1: Treat meeting input and comments. If more time is needed, e.g. for [R2-2003346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003346.zip), 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003809.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003497.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003226.zip), 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003124.zip), and [R2-2002847](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002847.zip), started immediately (Samsung).

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

Part 1b: LS to R1 on Intra-UE prioritization (Nokia)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003772.zip), 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003782.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003793.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003383.zip), [R2-2003789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003789.zip), [R2-2003381](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003381.zip), [R2-2003382](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003382.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003707.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003656.zip) and [R2-2003657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003657.zip). 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003790.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003770.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003812.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003812.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003204.zip), [R2-2003203](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003203.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003204.zip), [R2-2003203](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003203.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003612.zip)

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.

* [AT109bis-e][060][NR16] MAC eLCID and RACH stopping (LG, Mediatek)

Scope: treat [R2-2003024](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003024.zip) and [R2-2002931](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002931.zip)

Wanted outcome: if agreement can be reached, one or two in-principle-agreed CRs.

Deadline: April 29 0700 UTC

* [AT109bis-e][061][NR16] LS on Conflicting configurations (Huawei)

Scope: Based on R2-2003626 and discussion, make an LS to R1 asking about intentions whether potentially conflicting/potentially similar features can be or are intended to be configured together.

Intended outcome: Approved LS

Deadline: April 29

* [AT109bis-e][062][NR15] LS on FR2 Fallbacks (Mediatek)

Scope: Reply LS to R4, explaining the situation in R2 (could explain also why we have not been able to converge), ask questions that would/could be relevant to technical solution

Intended outcome: Approved LS

Deadline: April 28 0700 UTC

* [AT109bis-e][063][NR15] SRS capability for SRS-only SCell (Huawei)

Scope: Treat R2-2003443, R2-2003444, R2-2003445, R2-2002574

Intended outcome: Agreed-in-principle CRs

Deadline: April 29 0700 UTC

* [AT109bis-e][064][NR15] XDD FRX differentiation (Qualcomm)

Scope: Reply LS to R1, In this context, clarify the meaning of/how current signaling works. Determine whether clarifications to current TS is needed. Can discuss how to extend if/when needed.

Intended outcome: Approved LS, Report and/or clarification CR (if agreed).

Deadline: April 29 0700 UTC

* [AT109bis-e][065][NR RIL] DiscMail ()
* [AT109bis-e][066][NR RIL] DiscMail1 ()
* [AT109bis-e][067][NR RIL] DiscMail2 ()
* [AT109bis-e][068][NR RIL] DiscMail3 ()
* [AT109bis-e][069][NR RIL] DiscMail4 ()
* [AT109bis-e][070][NR RIL] DiscMail5 ()
* [AT109bis-e][071][NR RIL] DiscMail6 ()
* [AT109bis-e][072][NR RIL] DiscMail7 ()
* [AT109bis-e][073][NR RIL] DiscMail8 ()
* [AT109bis-e][074][NR RIL] DiscMail9 ()
* [AT109bis-e][075][NR RIL] DiscMail10 ()
* [AT109bis-e][076][NR RIL] DiscMail11 ()
* [AT109bis-e][077][NR RIL] DiscMail12 ()

Scope: Discussion and implementation of review issues.

Wanted outcome: Updated ASN.1 review file: a) Updated RIL issue information b) Agreed implementation (initial agreement, further review may be needed after implementation)

Deadline: Email discussion Stop at EOM, April 30 (short extension 1 week could be considered if needed).

# 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

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| --- |
| 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

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| --- |
| 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

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| --- |
| *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.

|  |
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| **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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002500.zip) Agenda for RAN2#109bis-e Chairman agenda Late

## 2.2 Approval of the report of the previous meeting

[R2-2002501](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002501.zip) 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)

General

[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 Treated

[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

Treated in [000]. Reply to R2-2000054

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

[R2-2002542](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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002551.zip), [R2-2003537](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003537.zip), [R2-2003538](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003538.zip), [R2-2002697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002697.zip), [R2-2002698](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002698.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002917.zip), [R2-2002948](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002948.zip), [R2-2002949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002949.zip), [R2-2002886](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002886.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003334.zip), [R2-2003335](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003335.zip), [R2-2003336](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003336.zip), [R2-2003337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003337.zip), [R2-2002985](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002985.zip), [R2-2002986](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002986.zip), [R2-2003697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003697.zip), [R2-2003698](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003698.zip).

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002681.zip), [R2-2002682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002682.zip), [R2-2002683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002683.zip), [R2-2003071](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003071.zip), [R2-2003386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003386.zip), [R2-2003196](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003196.zip), [R2-2003197](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003197.zip), [R2-2002787](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002787.zip), [R2-2003480](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003480.zip), [R2-2003483](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003483.zip),

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003690.zip), [R2-2003691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003691.zip), [R2-2003692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003692.zip), [R2-2003693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003693.zip), [R2-2003694](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003694.zip), [R2-2003695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003695.zip), [R2-2003670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003670.zip), [R2-2003671](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003671.zip), [R2-2003778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003778.zip),

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002692.zip) 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

- QC think we need to first clarify the current understanding

* noted

[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

* noted

[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

* noted

Interpreatation of Current signalling = Table 1?

- Docomo agrees with Table1. Oppo agrees as well. ZTE agrees the problematic case is case 6. Vivo agrees. Samsung agrees

- MTK think for case 1, 3 and 8 the settings in the table are not correct. QC agrees, and think the table is conceptual and refeclects what can potentially be set. Huawei have the same comment. ZTE as well. Vivo agrees

- Ericsson think that the case that cannot be supported today is the case 5. Intel agrees.

- Nokia wonders if the table reflects what we should be able to signall.

- Samsung think the cases that cannot be supported don’t need to be supported. Huawei also didn’t find any use case. MTK as well. CATT think we need to check whether there are real cases. QC think there might be cases. Intel agrees we need to check wheter there are new cases

- Ericsson agrees that we shold stick to what we have, and add new signalling for new cases. Think we shold also look at the procedures in 306.

How to change (if found needed)

- Ericsson think new signalling. CATT agrees that this shold be the principle. QC think this is also acceptable. Intel agrees. MTK agrees and think we shold not change the meaning of current signalling.

- Docomo is thinking we should have signalling per FB.

- ZTE wonder how we can have new signalling. If we consider Case 6 is not supported by current signalling, what would the UE then indicate for Case 6.

- Samsung also think this could be per band. Docomo think we also indicated this in the guidline LS.

* In R2 there is no consensus that new cases need to be supported right now. A majority of companies think the signaling could be changed when new specific cases has been identified.
* We reply to R1 LS (QC)
* By Email, Clarify how current signaling works, discuss clarifications to the TS. Can discuss how to extend (explain the possible options). Agree LS out.
* [AT109bis-e][064][NR15] XDD FRX differentiation (Qualcomm)

Scope: Reply LS to R1, In this context, clarify the meaning of/how current signaling works. Determine whether clarifications to current TS is needed. Can discuss how to extend if/when needed.

Intended outcome: Approved LS, Report and/or clarification CR (if agreed).

Deadline: April 29 0700 UTC

[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

DISCSUSSION P5 6 7

- Samsung think such clarifications is not needed. Qc agrees, and the current signalling. Docomo agrees as well. Oppo think we then need to clarify some N/A in the table in the TS. Huawei think we shouldn’t change.

- Chair: Not much support to change.

* Not agreed

[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

- Nokia support

* Both CRs Agreed in principle

[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

[R2-2003269](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

[R2-2002655](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

10 tdocs above not treated

**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

=> revised in R2-2003832

[R2-2003832](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003832.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

- Ericsson indicate that the annex was changed in the revision.

* noted

[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

* noted

DISCUSSION on the two tdocs above

- Nokia think we need to work technically and be careful about an LS.

- LG think we should work on the CRs, and wonder about the timeline for an LS.

- TMO think we don’t know clearly what R4 was asking for, so we should ask what they really intended. TMO think this can be resolved in R4 without R2 CRs. BT think the R4 request was unclear and think we need to ask R4 what they wanted. TEI agrees. Vodafone also agrees and think the LS we worked in last time was a good direction.

- MTK think we should have tech endorsed CRs and can send an LS to R4. Huawei agrees that we should do this. Intel support this way forward. Samsung think this is ok. CMCC support this way forward.

Chair suggestion:

- Chair assumes we will not be able to converge.

- We can reply to R4 LS, and explain the situation in R2.

- We can do some work on the CRs to make them technically ok.

[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

DISCUSSION

- TMO object to have CRs, and think we can send an LS to RP saying it is not feasible.

- LG would like Apple to compromise. Ericsson think Apple are unreasonable. CMCC also would like to send LS and think the LS can be phrased in a neutral way. Samsung agrees. Turkcell agrees.

* Send LS to R4, explaining the situation in R2 (could explain also why we have not been able to converge), ask questions that would/could be relevant to technical solution (MTK).
* Work on CRs to have techncially endorsed CRs to RP, by email to next meeting (assumption is that we can tech endorse CRs also if R4 doesnt reply).
* [AT109bis-e][062][NR15] LS on FR2 Fallbacks (Mediatek)

Scope: Reply LS to R4, explaining the situation in R2 (could explain also why we have not been able to converge), ask questions that would/could be relevant to technical solution

Intended outcome: Approved LS

Deadline: April 28 0700 UTC

* [Post109bis-e][xx][NR15] CRs for FR2 CA Fallback (Apple)

Scope: Based on R2-2002803, R2-2002804, produce CRs that can be technically endorsed.

Intended outcome: Endorsable CRs

Deadline: Next Meeting

**SRS Capability for SRS only SCell**

[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

* [AT109bis-e][063][NR15] SRS capability for SRS-only SCell (Huawei)

Scope: Treat R2-2003443, R2-2003444, R2-2003445, R2-2002574

Intended outcome: Agreed-in-principle CRs

Deadline: April 29 0700 UTC

UE cap codebook parameters

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

Scope: Treat [R2-2002552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002552.zip), [R2-2002990](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002990.zip), [R2-2003456](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003456.zip), [R2-2003816](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003816.zip), [R2-2003817](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003817.zip), [R2-2003457](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003457.zip), [R2-2003458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003458.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003816.zip)

[R2-2003816](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003816.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, Ericsson CR Rel-15 38.306 15.9.0 0283 2 F NR\_newRAT-Core [R2-2003457](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003457.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003817.zip)

[R2-2003817](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003817.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, Ericsson CR Rel-16 38.306 16.0.0 0284 2 A NR\_newRAT-Core [R2-2003458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003458.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002571.zip), [R2-2002572](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002572.zip), [R2-2002696](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002696.zip), [R2-2002578](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002578.zip), [R2-2002679](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002679.zip), [R2-2002724](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002724.zip), [R2-2003463](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003463.zip), [R2-2003464](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003464.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003306.zip), [R2-2003307](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003307.zip), [R2-2003280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003280.zip), [R2-2003281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003281.zip), [R2-2003459](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003459.zip), [R2-2003460](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003460.zip), [R2-2003461](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003461.zip), [R2-2003462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003462.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002694.zip), [R2-2002695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002695.zip), [R2-2002637](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002637.zip), [R2-2002636](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002636.zip), [R2-2002989](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002989.zip), [R2-2002678](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002678.zip), [R2-2003541](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003541.zip), [R2-2003542](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003542.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003339.zip), [R2-2003773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003773.zip)

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.

RIL Issues Email Discussions

DISCUSSION

- 13 groups -> 13 email discussions (13 groups already in the RILs, named “DiscMailX”, X = 0..12).

- Email discussions can be extended.

- End Goal is to agree a solution for each RIL issue (class 2 issues). Rapporteur responsibility to produce and maintain the solution.

- Samsung wonder if this is class 2 or 3 issues. Ericsson think this is now for class 2 issues.

- Vivo wonder how the grouping is done, Ericsson explains that for the moment it is per IE or cpl of IEs.

* [AT109bis-e][065][NR RIL] DiscMail ()
* [AT109bis-e][066][NR RIL] DiscMail1 ()
* [AT109bis-e][067][NR RIL] DiscMail2 ()
* [AT109bis-e][068][NR RIL] DiscMail3 ()
* [AT109bis-e][069][NR RIL] DiscMail4 ()
* [AT109bis-e][070][NR RIL] DiscMail5 ()
* [AT109bis-e][071][NR RIL] DiscMail6 ()
* [AT109bis-e][072][NR RIL] DiscMail7 ()
* [AT109bis-e][073][NR RIL] DiscMail8 ()
* [AT109bis-e][074][NR RIL] DiscMail9 ()
* [AT109bis-e][075][NR RIL] DiscMail10 ()
* [AT109bis-e][076][NR RIL] DiscMail11 ()
* [AT109bis-e][077][NR RIL] DiscMail12 ()

Scope: Discussion and implementation of review issues.

Wanted outcome: Updated ASN.1 review file: a) Updated RIL issue information b) Agreed implementation (initial agreement, further review may be needed after implementation)

Deadline: Email discussion Stop at EOM, April 30 (short extension 1 week could be considered if needed).

RRC CR handling after R2 109bis-e

- During this meeting for most WIs, the corrections are put in WI specific CRs (this is a result of this meeting).

- For a WI, there will be a Cat B functional CR (for most WIs), introducing missing functionality, maybe we keep it “minimal”. Could also contain corrections, see further below.

- Alt A. For a WI, after this meeting, all RRC corrections are merged into the ASN1 Mega-CR, and at next meeting all corrections are done in the context of updating the ASN.1 Mega-CR.

- Alt B. For WI, after this meeting, all RRC corrections are kept separate in a WI specific CR.

- For the continued ASN.1 review:

- If most WIs can follow Alt A, we just continue the ASN.1 review based on the ASN.1 Mega-CR, or:

- We could create a temporary RRC version, merging all CRs, as a base for further review, i.e. asa a base for issues finding and issues discussion. The actual CRs need to be based on March version.

DISCSUSSION

- Samsung think we need a temp RRC in any case. Intel agrees we need the temp RRC. ZTE agrees. Nokia agrees.

- Lenovo think we could apply Alt A and alt B different for differnet WIs. Huawei agrees that this can be different dep on the WI.

- Ericsson wonders if we can have everything in the mega CR.

- Nokia think we just have a CR per WI, and we do the merge after the meeting. LG agrees.

- Chair think that if we don’t merge most things to ASN.1 CR, after this meeting we will need to maintain both ASN.1 CR and Temp RRC version.

- Huawei think that an issue is that the time is short.

- Samsung think we need to think a bit more.

* Continue discussion offline

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

\* H002

\* E032

\*\* S051

All of above treated based on submitted tdocs see below

H001

Huawei indicate that this issue is just about excessive use of the word “info”. Nokia think there is already a guideline saying this shall not be used.

* Agreed (for all instances)

S655

Maybe Requires more thinking. Possibly it is best to use the same structure. Ericsson wonder why size zero is possible. Huawei think size zero could be a way to release, and think we should look for similar cases. MTK agrees size zero is exactly for that.

Samsung wonder if we’d have an email discussion for general things. Intel think the Rapporteur can coordinate. Nokia think we can split the work per “principle”

* Keep open, look for similar cases, see if we can find a similar way for all cases.

S352

Intel think the new ext parameter has somewhat different meaning and this is the reason. Intel think it works same as a critical extension, i.e. a replacement. Nokia agrees, and think the “Ext” is misleading. Huawei think we should have a different name altoghether. Samsung thought it is just a replacement and same name to use.

Docomo wonder what is the problem with noncritical extension. MTK think this could be complex. Nokia think there may be impact to R1 TS. Huawei think we should not duplicate values.

* We consider to Remove Ext (at least)

H200

* The aspect mentioned could be made even clearer than current

I627

Intel clarifies that there was no proposal bec there could be several ways to release. Nokia agrees.

* Treat this together with S655

E133

* Agreed

E134

Lenovo think we should avoid using extension markers in child IEs, and we should check. Nokia agrees that SIBs requires more attention. Huawei wonders if we then extend by parallel list. Ericsson think yes. Samsung agrees.

* Agreed

RIs, Wednesday

\*H003

Treated based on tdoc see below.

G001 – Issue seems correct, treat offline

Nokia think this is a pattern seen in many places.

E039

ZTE agree with the intention and think there should be an independent section. Ericsson think this can be looks further at off-line. Nokia agrees and think we also need to check how this relaed to cond HO. Vivo agrees.

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

Discussion

- Nokia wonder if we can document these guidelines so we don’t need to repeat.

- Samsung think that when switching between versions of IEs (critical extensions) we will need to do that by full config.

P7

- Vivo wonder why and wonder about the DL.

- Intel think that the network always know the UE release so for the DL spares could be used.

- Docomo think we had lot of problems with spare values.

P8

- Lenovo wonder if we really need this.

- Intel agrees that it is not mandatory

- Nokia wonder if we use the same for multiple segments of can they be different. Samsung also wonder.

- Chair: no support now

* ASN.1 should support the signalling to release all Rel-16 fields without having to use Full Config.
* Consider grouping fields related to a feature and introduce setupRelease structure to allow the network to release the fields, where other release mechanism are not available (e.g., fields that use Need M).
* Avoid Need R in an extension if other means to release the field (such as setupRelease discussed in proposal #2) is possible. There are scenarios where Need R is useful and hence this requires careful evaluation on a case by case basis
* Use of Need S to configure a specific value when the field is absent should be minimised. There are scenarios where Need S is useful and hence this requires careful evaluation on a case by case basis.
* Introduce Need code where relevant when a field is marked as “absent” in a conditional presence.
* Avoid spare values in ENUMERATED UL fields

[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

DISCUSSION

- Ericsson and Intel thin indeed M shold be avoided for elements in list.

* Follow the R15 principle that we will avoid using Need M within lists without an AddMod structure.

[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

- MTK think Sequence of Choice is ok, and sequence of sequence is not used. Nokia think the S of S shall indeed be avoided.

- Nokia think we need to check the TS first before we decide to change. We used Seq of Choice in system information and it works. Ericsson agrees.

* Confirm seq of seq shall not be used but there is none in RRC, so no action needed.

IE merge / reuse

[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

DISCUSSION

- QC think this is also discussed in NR-U session.

- Ericsson clarifies that the proposal is that NR-U submits CRs to correct

- Samsung at least think there is a need to clarify things, even if we heep the two different IEs.

* There is support to go in this direction, details need to be looked at.

[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

- Nokia think that for DL we need to do non-crit extension, and possibly also for UL. Huawei think that then we need to continue extending same way. Nokia indicate these are in SIBs

- Ericsson think that “new” is not good in names, and think we need to include the people working with the affected WIs.

- Huawei can attempt to change into merge but with non-critical extensions.

- Ericsson think these cannot be merged, as the features are different on L1 level, and we need to understand how/if we can configure these together, or not.

* Send a LS to R1 asking for clarification what is intended to be possible to be configured together (can consider other cases) (Huawei).
* [AT109bis-e][061][NR16] LS on Conflicting configurations (Huawei)

Scope: Based on R2-2003626 and discussion, make an LS to R1 asking about intentions whether potentially conflicting/potentially similar features can be or are intended to be configured together.

Intended outcome: Approved LS

Deadline: April 29

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

- Huawei thnk the network will not ask logged MDT log at the same time, so SRB2 should be ok. Intel agrees, and think this solution requires response both for SRB1 and SRB2. ZTE agrees

- MTK also think this is not neccsary. Samsung agrees, Nokia agrees too. LG too

- ZTE and Nokia think we could capture a note so network avoids this. LG think this is not need. Samsung also think a note is not needed.

- Chair: not much support.

* Not agreed

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 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

Chair: Suggest to not treat, postpone.

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

Moved here from 6.2.x:

[R2-2002931](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002931.zip) Stopping ongoing Random Access procedure LG Electronics Inc. discussion Rel-16 NR\_unlic-Core

* [AT109bis-e][060][NR16] MAC eLCID and RACH stopping (LG, Mediatek)

Scope: treat [R2-2003024](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003024.zip) and [R2-2002931](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002931.zip)

Wanted outcome: if agreement can be reached, one or two in-principle-agreed CRs.

## 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003014.zip), [R2-2002728](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002728.zip), [R2-2003178](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003178.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003011.zip) (and other non-controversial corrections if any), [R2-2003561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003561.zip) 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.

DISCUSSION

P3

- QC think we already concluded we leave this to implementation.

- ZTE think we didn’t agree to leave to impl. ZTE think option 1 is preferable, e.g. for GBR.

- Samsung think option 2 is simpler. Intel also think we have assumed/agreed Option 2. LG think that if default channel is used it need to support all QoS channels, so option 2 is for sure simpler.

- Ericsson want to keep both option 1 and 2. Samsung wonder how this would work. Ericsson think they wuld not be used at the same time. Ericsson are not completely sure, and if option 1 is similar to P2 then agree with Samsung.

- QC think option 2 is more general.

- Chair proposes to agree option 2. Huawei think option 1 can still be discussed. IAB-MT doesn’t know the QoS.

- Nokia think indeed we can just agree option 2 as we also have P1 and P2.

* The Donor CU can configure the 1:1 or N:1 mapping to BH RLC Channel on the backup egress link of IAB-node before BH RLF. Whether it is configured is up to CU implementation.
* If the regular mapping to BH RLC Channel in the backup egress link is configured by donor CU, IAB node follows the configured BH RLC channel mapping for re-routed packets.
* If the regular mapping to BH RLC Channel in the backup egress link is NOT configured by donor CU, IAB node: uses any BH RLC channel on the backup egress link for re-routed packets by implementation.

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002691.zip) (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!

[R2-2003829](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003829.zip) Summary of IAB User Plane open issues and corrections Samsung Electronics GmbH report Late

DISCUSSION

P2

- LG would like to use the reserved bits for LCID range.

- Nokia would like that as well, and think that the reserved bits are not used.

- Samsung think that 14bits are acc to R3. QC think R3 re-discusses, and thikn that we discussed recently 20 bit flow label, and we should have 16 bits. Nokia think it is in any case better to have reserved values rather than reserved bits. ZTE also support 16bits.

- Chair wonder if it matters whether 14-16bits. Samsung think from use case prespective it doesn’t matter.

- Ericsson think we can align w R3, we should respect R3 decision.

- Huawei thikn we should stick to previous agreement.

- QC indicates that R3 decision was based on a mistake by the WI rapporteur.

- CHAIR: OK, we wait for R3 to rediscuss then, if there was no reason to change the earlier decided 16bits should be applied. Come bck later.

P3

- Samsung point out that we anyway have a common SR section and the SR section need to refer to pre-emptive BSR,

- Ericsson agrees.

- LG think the current TS is ok, and there is no problem. Vivo also think currently there is no problem and we can fix in the future if there are problems.

- Huawei think we should have a separate section. The main problem is that pre-emtive BSR is a regular BSR, and maintenance of regular BSR is the issue. Intel agrees as well.

- Chair think that the rapporteur can decide. Samsung think it might be easier with a separate section.

P4

- Huawei think we don’t need to send an LS as R1 already stated this is per Cell. Intel think we should follow R1 per cell agreement, ZTE agrees and think different TAG can have different situation and different config.

- QC thikn CG is ok, and think we can decide and inform. Vivo agrees. LG agrees, and thikn the propagation is the same. Samsung think we can agree. Nokia think that per-cell doesn’t even work.

- KDDI are ok to send LS to R1.

- Chair propose that we can assume per-cell and ask R1 if the assumption per-cell-group would be ok/better

P5

- LG thikn this procedure have almost no contents and we don’t need a separate section.

- QC think the new section just refer to R1.

P7

- Samsung thikn that sending and cancellation should be specified, and we can leave triggering to impl. LG agrees. Intel think that if we specify sending we should specify cancellation. Huawei thikn we can specify some cancellation conditions but additional cancellation can be applied. Futurewei agrees and think that implementation need flexibility.

- Vivo think we indeed need to specify.

- Chair think we should discuss offline.

P8

- Samsung indicate that everyone was ok with this, but should be in the discussion with P7.

P9

- Chair/QC wonder why we need to discuss this. Chair thikn this is a capability discussion. Huawei agrees this does not need to be discussed. LG has doubts on DRB. Ericsson thikn PDCP will not be used for DRB. Nokia agrees this do not need to be discussed.

- Chair: it seems there is no particular requirements for duplication etc, but there seems to be no reason to functionally prevent this, so this is a capability discussion. No need to decide here .

P10

- LG are ok with this proposal but think this should be in RRC not MAC.

- QC agrees this can be discussed in the context of RRC, suggest this to be part of RRC email discussion.

- Huawei think first two issues are MAC and the last one is RRC.

- Perspecta labs think this indeed impact both MAC and RRC.

- KDDI wonder what is the use case for MSG1 based Si request as IAB MT is always in Connected mode. Do we need to address this use case? Huawei think if we agree this, we don’t need to dicuss in general the SI request for IAB MT. QC think that the reason for a new RACH for Idle mode is that IAB modes may have different coverage char than normal UEs and may be in areas where there is no normal coverage. This was discussed in R1.

* P8/P7 continue offline
* All of the MAC CEs introduced by the IAB WI shall have their identifiers selected from set2 of the one-byte eLCID space.
* Pre-emptive BSR procedure to be captured as a standalone Section (separate from Section 5.4.5 on “legacy” BSR).
* RAN2 to leave the decision on whether the information contained in the Guard Symbol MAC CE applies to the entire cell group, or individual cell on which it is received, to RAN1. RAN2 to send an appropriate LS to RAN1
* RAN2 to introduce a short section on procedural aspects for Timing offset adjustment for IAB.
* Skip P9, this could possibly be a capablity discussion, no need to change other TS for this,
* the IAB specific IAB RACH configuration is used by IAB MT, if configured (exceptions can be discussed), further details to be discussed offline.

*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

[R2-2003830](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003830.zip) CR (IAB MAC - rapporteur corrections and clarifications) Samsung Electronics GmbH CR Rel-16 38.321 16.0.0 0708 1 F NR\_IAB-Core

* Endorsed (baseline for further updates)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003020.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003813.zip), and [R2-2003726](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003726.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003813.zip)

[R2-2003813](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003813.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002522.zip), [R2-2002523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002523.zip) and [R2-2002672](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002672.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002522.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002523.zip) 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

- QC wonder if to include R16 capability in offline.

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003012.zip), [R2-2003013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003013.zip), [R2-2003179](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003179.zip), [R2-2003346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003346.zip)

Part 1: Treat meeting input and comments. If more time is needed, e.g. for [R2-2003346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003346.zip), 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002506.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002513.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002514.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002516.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002530.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002584.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002844.zip) Report of Post109e#40][NR-U] UE capabilities Qualcomm Incorporated report

[R2-2003008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003008.zip) Reply LS on consistent Uplink LBT failure detection mechanism Nokia LS out Rel-16 NR\_unlic-Core To:RAN1 Late

[R2-2003409](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003409.zip) Corrections of NR-U in 38.321 Ericsson CR Rel-16 38.321 16.0.0 0726 - F NR\_unlic-Core

[R2-2003411](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003411.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002582.zip) Clarification on the LBT Failure Indication vivo discussion

[R2-2002583](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002583.zip) Discussion on the UE Processing Time for Autonomous Retransmission vivo discussion

[R2-2002613](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002613.zip) Clash between NR-U and IIoT for the configured grant Samsung discussion Rel-16 NR\_unlic-Core

[R2-2002614](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002614.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002837.zip) Discussion incoming RAN1 LS on LBT failure indication OPPO discussion Rel-16 NR\_unlic-Core

[R2-2002848](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002848.zip) Remaining critical issues for LBT failures Qualcomm Incorporated discussion

[R2-2003004](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003004.zip) Remaining issue on 2-step random access in NR-U Huawei, HiSilicon discussion Rel-16 NR\_unlic-Core

[R2-2003005](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003005.zip) Discussion on the MAC CE for NR-U Huawei, HiSilicon discussion Rel-16 NR\_unlic-Core

[R2-2003006](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003006.zip) Discussion on PDCCH group switching for NR-U Huawei, HiSilicon discussion Rel-16 NR\_unlic-Core

[R2-2003031](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003031.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003050.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003410.zip) UEs not supporting gap-less msgA transmission Ericsson discussion Rel-16 NR\_unlic-Core, NR\_2step\_RACH-Core

[R2-2003498](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003498.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002615.zip) Applicability of NR-U features to licensed carrier Samsung discussion Rel-16 NR\_unlic-Core R2-2000535

[R2-2002719](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002719.zip) On Q-values for Measurements in NR-U Mediatek Inc. discussion

[R2-2002843](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002843.zip) Report of [Post109e#38][NR-U] RRC open issues Qualcomm Incorporated report Late

[R2-2002845](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002845.zip) E-UTRAN and NR-U interworking Qualcomm Incorporated discussion

[R2-2002846](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002846.zip) NR-U RRC Open Issues List Qualcomm Incorporated discussion Late

[R2-2002847](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002847.zip) Miscellaneous corrections for NR-U Qualcomm Incorporated CR Rel-16 38.331 16.0.0 1528 - F NR\_unlic-Core Late

[R2-2002910](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002910.zip) Description on Short Message in TS38.331 LG Electronics Inc. discussion Rel-16

[R2-2002966](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002966.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002968.zip) Draft-Reply LS on LS on UL LBT failure recovery for the target cell ZTE Corporation, Sanechips response

[R2-2003041](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003041.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003408.zip) UL LBT failure recovery for target cell Ericsson discussion Rel-16 NR\_unlic-Core

[R2-2003414](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003414.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002507.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002518.zip) LS on sidelink HARQ (R1-2001426; contact: LGE) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

[R2-2002541](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002541.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002563.zip) (draft)LS response to SA3 on NR V2X security issue ZTE Corporation, Sanechips LS out 5G\_V2X\_NRSL-Core To:SA3

[R2-2002662](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002662.zip) Minor Correction in TS38.300 on SL physical layer measurements Nokia, Nokia Shanghai Bell discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003513](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003513.zip) [DRAFT] LS response to SA3 on the security related issues for NR SL Huawei, HiSilicon LS out 5G\_V2X\_NRSL To:SA3

[R2-2003514](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003514.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003519.zip) RRC Open Issue List for 5G V2X with NR SL Huawei (Rapporteur) other 5G\_V2X\_NRSL Late

[R2-2003559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003559.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003672.zip) Draft LS response to RAN1 on sidelink HARQ Huawei, Hisilicon LS out 5G\_V2X\_NRSL-Core To:RAN1

[R2-2003818](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003818.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002652.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002564.zip) Discussion on NR V2X remaining RRC issues ZTE Corporation, Sanechips discussion 5G\_V2X\_NRSL-Core

[R2-2002567](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002567.zip) (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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002621.zip) Discussion on RRC open issues [N001,N002,N005] OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002622](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002622.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002651.zip) Open issues on system information OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002653](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002653.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002722.zip) Configuration failure handling on PC5 MediaTek Inc. discussion Rel-16

[R2-2002807](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002807.zip) Remaining issues on PC5-RRC procedures Apple discussion 5G\_V2X\_NRSL-Core

[R2-2002821](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002821.zip) Triggering condition for sidelink RSRP reporting MediaTek Inc. discussion Rel-16

[R2-2002828](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002828.zip) Further Discussion on RRC Remaining Issues CATT discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002850](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002850.zip) Left issue on RRC for NR V2X LG Electronics France discussion Rel-16 38.331 5G\_V2X\_NRSL-Core

[R2-2002918](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002918.zip) Summary of [Post109e#54][V2X] RRC Open Issues Huawei (Rapporteur) discussion Late

[R2-2002919](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002919.zip) Discussion on remaining RRC Open issues for 5G V2X with NR SL Huawei, HiSilicon discussion

[R2-2002920](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002920.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002921.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003096.zip) RRC remaining issues for NR V2X Lenovo, Motorola Mobility discussion Rel-16

[R2-2003114](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003114.zip) SL RSRP report triggering Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003293](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003293.zip) Open HARQ Issues Fraunhofer HHI, Fraunhofer IIS discussion R2-2000328

[R2-2003295](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003295.zip) Reporting of Sensing Result for Mode 1 UEs Fraunhofer HHI, Fraunhofer IIS, AT&T, Deutsche Telekom discussion R2-2000327

[R2-2003312](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003312.zip) Remaining issues on RRC for NR V2X Nokia, Nokia Shanghai Bell discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003338](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003338.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003347.zip) RLF handling under multiple PC5-RRC connections Kyocera discussion

[R2-2003520](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003520.zip) Summary document on for AI 6.4.2.1 - RRC aspects Huawei, HiSilicon discussion Late

[R2-2003528](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003528.zip) Remaining issues for Sidelink AS Reconfiguration Qualcomm Finland RFFE Oy discussion

[R2-2003536](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003536.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003645.zip) Remaining issues on RRC specification ASUSTeK discussion Rel-16 38.331 5G\_V2X\_NRSL-Core

[R2-2003646](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003646.zip) Clarification on UE behaviour for sidelink RoHC configuration ASUSTeK draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core

[R2-2003722](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003722.zip) RRC connection initiation trigger for SLRB configuration handling Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003759](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003759.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002604.zip) Open aspects on mode 2 operation Intel Corporation discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002638](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002638.zip) Summary of [Post109e#20] V2X Remaining UE capability issues (OPPO) OPPO report Rel-16 5G\_V2X\_NRSL-Core Late

[R2-2002639](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002639.zip) Summary of capability related Tdoc submitted to R2#109bis-E OPPO report Late

[R2-2002661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002661.zip) Further issues on the mismatch of UE capabilities in unicast sidelink Nokia, Nokia Shanghai Bell discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002771.zip) Remaining Issues on NR V2X Resource Allocation for Zone Configuration ITRI discussion 5G\_V2X\_NRSL-Core

[R2-2002808](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002808.zip) Discussion on Interoperability of V2X UEs camped in different cells Apple discussion 5G\_V2X\_NRSL-Core

[R2-2002829](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002829.zip) Discussion on inter-RAT Cell Selection/Reselection CATT discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002830](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002830.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002859.zip) Left issues on UE capability for NR V2X LG Electronics France discussion Rel-16 38.331 5G\_V2X\_NRSL-Core

[R2-2003097](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003097.zip) Remaining issues of cell (re)selection for NR V2X Lenovo, Motorola Mobility discussion Rel-16

[R2-2003214](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003214.zip) UE capability left issue for NR V2X Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003366](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003366.zip) Remaining issue on RRC state transition for groupcast ITRI discussion 5G\_V2X\_NRSL-Core

[R2-2003515](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003515.zip) Remaining issues on cell reselection for sidelink in TS 38.304 Huawei, HiSilicon discussion

[R2-2003516](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003516.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003603.zip) Clarification on cell reselection CATT draftCR Rel-16 38.304 16.0.0 5G\_V2X\_NRSL-Core

[R2-2003721](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003721.zip) Further discussion on cell reselection for V2X Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003756](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003756.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003779.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002624.zip) Correction on SL configuration procedure [N009] OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002625](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002625.zip) Correction on SL configuration procedure [N009] OPPO draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core

[R2-2002626](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002626.zip) Left issues on inter-RAT UAI configuration and CBR report [N038] OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002627](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002627.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002628.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002629.zip) Correction on RLF report via SUI message [N037, RIL-O306] OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002630](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002630.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002721.zip) Cleanup of requirements on maintenance of PC5-RRC connection [N.016][N.021] MediaTek Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003206](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003206.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003207.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003208.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003209.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003210.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003211.zip) [E061] Correction on sl-Failure in SidelinkUEInformation Ericsson draftCR Rel-16 38.331 16.0.0 F 5G\_V2X\_NRSL-Core Late

[R2-2003212](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003212.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003213.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003215.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003432.zip) Ambiguity on which SL carrier frequency to be released (N.040) vivo discussion

[R2-2003433](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003433.zip) No CBR based PSSCH tx parameters configuration to mode 1 UE (N.041) vivo discussion

[R2-2003434](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003434.zip) Sidelink communication reception (N.042) vivo discussion

[R2-2003435](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003435.zip) Frequency resources configuration for actually used PSFCH transmissions (N.043) vivo discussion

[R2-2003436](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003436.zip) Align PSFCH Configuration of TX and RX resource pools (N.044) vivo discussion

[R2-2003517](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003517.zip) Discussion on Inter-RAT measurement reporting related issue for NR SL in TS 36.331 [N.011] Huawei, HiSilicon discussion

[R2-2003518](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003518.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003560.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003599.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003600.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003601.zip) Clarification on SUI transmission[ Issue #N.024] CATT draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core Late

[R2-2003623](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003623.zip) Discussion on the SL configuration in CU-DU architecture Huawei, HiSilicon discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003624](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003624.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003625.zip) Draft CR to support the SL configuration in CU-DU architecture Huawei, HiSilicon discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003673](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003673.zip) Clarification of SLRB configuration for IP SDU or non-IP SDU Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003674](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003674.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003675.zip) NR V2X TX profile configuration Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core [R2-1915941](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_108\Docs\R2-1915941.zip)

[R2-2003676](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003676.zip) NR V2X TX profile configuration Samsung Electronics Co., Ltd draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

[R2-2003677](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003677.zip) NR Sidelink PDCP out of order delivery configuration Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003678](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003678.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003679.zip) Clarification for SLRB configuration procedures Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003680.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002558.zip) Remaining Issues\_Sidelink CSI Reporting and Interruption handling Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002559.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002565.zip) Discussion on NR V2X remaining MAC issues ZTE Corporation, Sanechips discussion 5G\_V2X\_NRSL-Core

[R2-2002568](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002568.zip) (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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002569.zip) (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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002603.zip) Miscellaneous MAC issues Intel Corporation discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002623](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002623.zip) Draft-CR on left issues of 38.321 OPPO draftCR Rel-16 38.321 16.0.0 B 5G\_V2X\_NRSL-Core

[R2-2002648](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002648.zip) Left issues on MAC running CR OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002809](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002809.zip) Remaining issues on NR V2X MAC Design Apple discussion 5G\_V2X\_NRSL-Core

[R2-2002831](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002831.zip) Remaining Issues on MAC CATT discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002832](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002832.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002955.zip) Discussion on NR-V2X MAC left issues Fujitsu discussion Rel-16 5G\_V2X\_NRSL-Core R2-2000774

[R2-2003025](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003025.zip) Clarification for UL/SL prioritization in MAC spec MediaTek Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003026](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003026.zip) Remaining MAC issues MediaTek Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003110](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003110.zip) MAC left issues Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003112](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003112.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003116.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003122.zip) Remaining MAC Issues Lenovo, Motorola Mobility discussion 5G\_V2X\_NRSL-Core

[R2-2003224](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003224.zip) Groupcast HARQ feedback from RX UE without location information Futurewei discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003240](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003240.zip) Remaining MAC Issues for NR V2X Interdigital discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003292](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003292.zip) Discussion on LCH selection Fraunhofer HHI, Fraunhofer IIS discussion

[R2-2003332](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003332.zip) SL groupcast with Option-2 HARQ Nokia, Nokia Shanghai Bell discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003398](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003398.zip) Remaining issues for SL-SCH MAC subheader Qualcomm Finland RFFE Oy discussion Rel-16 R2-2001550

[R2-2003437](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003437.zip) Remaining MAC issues vivo discussion

[R2-2003521](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003521.zip) Remaining Part of [Offline Disc#704] Identified proposals to V2X MAC LG Electronics Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003522](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003522.zip) Report of [Post109e#21] Remaining MAC Issues (LG) LG Electronics Inc. discussion Rel-16 5G\_V2X\_NRSL-Core Late

[R2-2003523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003523.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003524.zip) Remaining V2X MAC Issues LG Electronics Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003533](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003533.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003555.zip) Discussion on remaining MAC Open issues for 5G V2X with NR SL Huawei, Hisilicon discussion

[R2-2003556](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003556.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003557.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003602.zip) Clarification on the impact of configured grant CATT draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

[R2-2003640](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003640.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003740.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003776.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002566.zip) Discussion on NR V2X remaining user plane issues ZTE Corporation, Sanechips discussion 5G\_V2X\_NRSL-Core

[R2-2002570](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002570.zip) (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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002649.zip) Discussion on PDCP open issues OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002650](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002650.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002810.zip) Remaining issues on NR V2X PDCP Design Apple discussion 5G\_V2X\_NRSL-Core

[R2-2002833](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002833.zip) Remaining Issues on PDCP CATT discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2002834](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002834.zip) 38.323 draftCR for NR V2X CATT draftCR Rel-16 38.323 16.0.0 5G\_V2X\_NRSL-Core

[R2-2002861](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002861.zip) Left issue on SDAP for NR V2X LG Electronics France discussion Rel-16 37.324 5G\_V2X\_NRSL-Core

[R2-2003111](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003111.zip) Report for email discussion Pose109e#19 V2X Remaining RLC issue Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003113](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003113.zip) Editorial Corrections on SDAP for NR sidelink Ericsson CR Rel-16 37.324 16.0.0 0015 - F 5G\_V2X\_NRSL-Core

[R2-2003237](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003237.zip) Report on email discussion [Post109e#23][V2X] Remaining RLM/RLF Issue InterDigital discussion Rel-16 5G\_V2X\_NRSL-Core Late

[R2-2003238](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003238.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003239.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003510.zip) Discussion on the SLRB PDCP header format Huawei, HiSilicon discussion

[R2-2003511](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003511.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003535.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003563.zip) RLF based on HARQ operation ITL discussion Rel-16

[R2-2003668](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003668.zip) Remaining PDCP issues Nokia, Nokia Shanghai Bell discussion 5G\_V2X\_NRSL-Core

[R2-2003681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003681.zip) Discussion for SL PDCP open issues Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2003682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003682.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003683.zip) SL PDCP COUNT wrap around avoidance Samsung Electronics Co., Ltd draftCR Rel-16 38.331 16.0.0 5G\_V2X\_NRSL-Core

[R2-2003774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003774.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002725.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003290.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003305.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002881.zip) Transfer of segmented UECapabilityInformation by SRB2 Samsung discussion Rel-16 RACS-RAN-Core R2-2000765

[R2-2003471](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003471.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003809.zip) 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.

DISCSUSSION

P2 / P1

- Ericsson do not support P2. SIB9 would need a lot of work, and this was not in the summary. On a high level: Reference time is in SIB9 and in Unicast delivery. Ericson think we have not decided which message should apply. RRC reconfiguration or RRC information. Thre may be R3 impact.

- LG agrees that traffic is predictable, and network shold know if the UE need accurate reference time, and think P1 is not needed. MTK agrees with this, and wonder if we will discuss how such request is triggered. Ericsson think indeed this is known by the network, and think this is already replied by SA2. Ericsson think that relying on network impl is the simplest. CATT think it is safe to go with P1 it will always work. Samsung think the gain of UE request is marginal. Nokia think that P1 is more important than P2. The CN information may not always be available. Nokia further think IIOT implementations might not use TSN but instead some other IIOT communication standard.

- Oppo think request should be supported, and think there are situations when the UE request is the only way.

- Samsung agrees with Ericsson, additional work will be needed. Legacy SIB will not be supported for all so some cap indication is needed.

- Intel agrees to P1 and for requested case P2 also work ok. Some change may be needed but we haven’t done stage-3 work yet so ok. Nokia agrees, and doesn’t agree there are blocking issues (Ericsson and Samsung). Vivo agrees as well, and think we could use RRC reconfiguration with these. Huawei also agrees. CATT also think P2 should be attempted first,

- Huawei comment on Ericsson paper that P1 is not needed. Review shows that CN information may not be sufficient.

- ZTE agrees that P2 brings some work, but think we should attempt P1 first.

- Ericsson think that if the UE requests the information then the network do not know if the new info shall be provided or not. Ericsson further wonders if we need then the information in two different messages.

- P1, Nokia think that it doesn’t need to be specified the trigger to ask for this, and point out that we have several such statements already, e.g. overheating. Nokia think furhernore that the network can configure this. Nokia think further that the network could possibly provide the timing information also when not requested by the UE as we don’t specify network behaviour. Samsung are ok with P1 if we use the UE assistance info framework.

- Ericsson think that we should only have one mechanism. We should not tailor On Demand SI too much if we use this meachanism.

* The CONNECTED UE can request the reference time information.

[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

- Intel think this works, but also the alternative works.

* Offline : the signaling solution, (iron out what are the two proposals and their fundamental difference)

[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

[R2-2003294](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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003497.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003497.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003226.zip), 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003124.zip), and [R2-2002847](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002847.zip), started immediately (Samsung).

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

Part 1b: LS to R1 on Intra-UE prioritization (Nokia)

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

DISCUSSION

P2

- Vivo think this is just for PUSCH and not SR.

- LG think this is ok, and the only thing need to be discussed are MAC CEs that are not transmitted due to deprioritzation

- ZTE think BFR and LBT failure MAC CE need to be prioritized. ZTE think that a MAC CE in a deprioritized transmission is not important, we have a retransmission mechanis,

- Nokia think we need to focus now, and can skip optimizations to next release.

- CATT think we now change so Data has higher priority than Control MAC CEs. CATT agrees with LG.

- Huawei think that we need to determine priority for MAC CEs for transmissions that contain only MAC CE.

- Oppo think we should discuss MAC CE priority in next release.

P3

- Lenovo think the case that there is a TB with only MAC CE is a corner case and think this would be up to UE implementation. ZTE agrees we can leave this to UE impl in this release. MTK agrees.

- LG think that Option 1 is the natural one. Ericsson agrees. Samsung agrees as well. Lenovo think that current spec is option 2 as no priority is defined for MAC CE. Huawei agree with Lenovo.

- Vivo think that current spec is option 1 and at least a note is needed to specify Option 2

P5

- Samsung think R1 will not change anything and think R2 shall resolve this issue. Huawei think R1 need to consider to change, and LS should be sent.

- Sony think this only applies for preemtion case, and think R2 TS is ok, but R1 need to change,

- Nokia think R1 will not change at this stage.

- Ericsson think either approach could work, and think we anyway need an LS to explain what we have agreed. There is a gap.

- CATT think there is a big gap between R1 and R2, and R2 can work on a solution meanwhile that assumes no R1 change.

- QC think last time we didn’t send the LS and think the NOTE proposed by Nokia is good.

- IDT think this is not a common case, so we think as well that the note approach is good.

- MTK think we can ask which transmission would take place.

* MAC CE is not considered for grant prioritization in Rel-16.
* On P3, it seems no company have strong reasons that we need to do either Option 1 or 2, can be resolved later (TS rapporteur to choose what is simplest)
* On P5, we send an LS to R1 informing on R2 agreements and the current gap, we explain the solutions on the table and we ask R1 for feedback (quick). LS to R1: Nokia (in email discussion above). LS approval 24h after stable.

[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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003772.zip), 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003782.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003758.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003793.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003793.zip) 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](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

=> Revised in [R2-2003811](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003811.zip)

[R2-2003811](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003811.zip) Measurement Reporting for UE based positioning Ericsson, Deutsche Telekom discussion Rel-16

=> Revised in [R2-2003822](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003822.zip)

[R2-2003822](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003822.zip) Measurement Reporting for UE based positioning Ericsson, Deutsche Telekom discussion Rel-16 NR\_pos-Core

[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

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](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

[R2-2003781](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003781.zip) 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](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

=> Revised in [R2-2003810](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003810.zip)

[R2-2003810](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003810.zip) On the need of unicast tag for positioning si-BroadcastStatus Ericsson, Deutsche Telekom 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](file:///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

## 6.9 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](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2002744.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002744.zip) Corrections to Mobility Enhancements Nokia, Intel Corporation (Rapporteurs) CR Rel-16 38.300 16.1.0 0211 - F NR\_Mob\_enh-Core

[R2-2003043](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003043.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003044.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003368.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003369.zip) 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](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2002589.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002589.zip) RoHC handling during DAPS handover without key change Ericsson discussion Rel-16 NR\_Mob\_enh-Core R2-2000126

[R2-2002799](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002799.zip) Non-DAPS DRB Handling when fallback to source Apple discussion NR\_Mob\_enh-Core

[R2-2002863](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002863.zip) Discussion on consecutive ROHC failure LG Electronics Inc. discussion NR\_Mob\_enh-Core

[R2-2003042](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003042.zip) 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](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2002748.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002748.zip) On measurement and evaluation during CHO execution Futurewei discussion Rel-16 NR\_Mob\_enh-Core

[R2-2002900](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002900.zip) T304 running issue when CHO Execution LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core R2-2001535

[R2-2002951](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002951.zip) Discussion of some remaining issues for CHO OPPO discussion Rel-16 NR\_Mob\_enh-Core

[R2-2002996](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002996.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003035.zip) CHO and MR-DC operation Ericsson discussion NR\_Mob\_enh-Core

[R2-2003105](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003105.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003106.zip) MCG recovery versus recovery via CHO - Rel-16 impact Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core

[R2-2003260](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003260.zip) Further details of CHO configuration and execution China Telecom discussion Rel-16

[R2-2003333](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003333.zip) Clarification on source reconfigiration during CHO Samsung CR Rel-16 38.300 16.1.0 0216 - F NR\_Mob\_enh-Core

[R2-2003422](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003422.zip) Further consideration on conventional HO overriding a CHO command ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

[R2-2003577](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003577.zip) Discussion on leftovers for CHO Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2003609](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003609.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002599.zip) Discussions on VarRLF-Report Setting Quectel discussion

[R2-2002901](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002901.zip) Failure handling of both CHO and MR-DC LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2003036](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003036.zip) Failure handling interaction Ericsson discussion NR\_Mob\_enh-Core

[R2-2003578](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003578.zip) 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](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2002902.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002902.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003037.zip) UE capabilities for CHO Ericsson discussion NR\_Mob\_enh-Core

[R2-2003579](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003579.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002749.zip) Clarifications on issues of CPC-intra-SN Futurewei discussion Rel-16 NR\_Mob\_enh-Core

[R2-2002800](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002800.zip) CPC with SRB3 Configuration Apple discussion NR\_Mob\_enh-Core

[R2-2002903](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002903.zip) Left Issues for CPC in R16 LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core R2-2001536

[R2-2003038](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003038.zip) Remaining issues for conditional PSCell change Ericsson discussion NR\_Mob\_enh-Core

[R2-2003100](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003100.zip) Remaining issues for CPC Lenovo, Motorola Mobility discussion Rel-16

[R2-2003107](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003107.zip) On how to close the open issues for Conditional PSCell Change Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core

[R2-2003327](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003327.zip) Discussion on CPC configuration handling during SCG Release Samsung discussion NR\_Mob\_enh-Core

[R2-2003423](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003423.zip) Remaining issues for CPC ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

[R2-2003440](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003440.zip) Report of [post109e@13][NR MOB] Resolving open issues for CPC CATT discussion Rel-16 NR\_Mob\_enh-Core Late

[R2-2003441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003441.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003799.zip)

[R2-2003799](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003799.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003442.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003580.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002904.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003039.zip) UE capabilities for conditional PSCell change Ericsson discussion NR\_Mob\_enh-Core

[R2-2003581](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003581.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003326.zip) [S350] Discussion on radio bearer handling in DAPS Samsung discussion NR\_Mob\_enh-Core

[R2-2003424](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003424.zip) [Z255] Correction for Pcell change in case of CPC ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

[R2-2003664](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003664.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003383.zip), [R2-2003789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003789.zip), [R2-2003381](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003381.zip), [R2-2003382](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003382.zip) 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

DISCUSSION

P7

- Huawei think this is not critical and we don’t need to agree now. Ericsson think this whole section need revision ayway.

P11

- Vivo think this is discussed elsewhere, in R1. MTK also think this is discussed in different context.

- QC has a different opinion. We don’t need to wait for R1.

- Nokia think we sent an LS so we should wait. CATT agfrees.

- ZTE think that if R1 support this we can agree p11 as-is. Ericsson agrees.

P8a

- MTK think we don’t to decide.

P8bP9b

- Ericsson think these can be discussed in the offline email discussion.

* On P11 we wait for R1.
* On P7 and 8a there is no strong need for a desicion
* Two IEs: idleModeMeasurementsNR and idleModeMeasurementsEUTRA to be used in NR SIB1 to indicate whether the UE performs EUTRA and NR early measurements
* The cell quality derivation parameters (NR: *nrofSS-BlocksToAverage-r16* and *absThreshSS-BlocksConsolidation-r16*; LTE: *maxRS-IndexCellQual* and *threshRS-Index*) will be kept under the ssb-MeasConfig.
* A maximum of 8 cells per carrier can be reported for early measurements in LTE/NR rel-16.
* In LTE, a need code of “Need OR” to be used for the following IEs inside ssb-MeasConfig of MeasIdleCarrierListNR: measTimingConfig-r15, maxRS-IndexCellQual-r15, threshRS-Index-r15 and ssb-ToMeasure-r15.
* To use a new rel-16 IE (in 36.331) to enable the reporting of up to 8 EUTRA carriers in early measurement results
* Confirm the use of the new rel-16 IE *SCellToAddModList* IE (included in latest 36.331 DCCA CR) for SCell addition/modification in *RRCConnectionResume.*
* The *sPCellCommonConfig* for the PSCell is saved as part of the UE AS Inactive AS context.

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

P1

- Huawei think the presence condition for TDm pattern is wrong. Need codes should be same as for reconfiguration. Nokia think we shold not remove the condtion completely.

P2

- Nokia think we should have shorter names.

* Add *p-maxEUTRA, p-maxUE-FR1,* and *tdm-patternConfig* in the *RRCConnectionResume* message. We allow the network to release these configurations when the UE is resumed without SCG. TBD if need codes is “Need OR” etc
* Field descriptions of harq-ACK-SpatialBundlingPUCCH, harq-ACK-SpatialBundlingPUSCH, harq-ACK-SpatialBundlingPUCCH-secondaryPUCCHgroup, and harq-ACK-SpatialBundlingPUSCH-secondaryPUCCHgroup to be updated as shown above to clarify the spatial bundling for the primary and secondary PUCCH can be disabled/enabled independently.

[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

- hw6, same as Z311, proposal not a condition as “reconfig w sync” is needed. Ericsson indicate that this is a condition in current CRs. Ericsson think that also Eutra case need to be captured in this case. ZTE think a condition to parent field is better. On the contents, if needed it could be covered by field description. Ericsson think that would be messy, either ZTE or Huawei way would be good. ZTE think we cannot describe all of this in a Field descr.

- Nokia think that in such case we should have conditions for reconfig with synch. Ericsson think the condition is already there. Huawei think not.

- Samsung think that we need conditions for the IEs to be included, in this case two places? Huawei think there are several levels child-parent ..

- Intel think we need to reevaluate this and think more about guidelines.

* Hw6 / Z311 Offline, this specific issue in DCCA email discussion, general guidline in a separate discussion (011)

### 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003707.zip) 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

P4

- Ericsson wonder if there is inconsistency as we have tied other capabilities. Nokia also have some doubts. MTK have not seen any tie, and agree with Huawei that it is a separate feature and support P4. QC as well. Vivo as well. Intel as well.

- Huawei think that the validity area is a very specific feature,

- intel think we should keep all Rel-16 features optional.

P5

- Nokia then think this is just for IODT

- ZTE wonders why we use CA in the name of the first field as this can be for DC. Huawei agrees this can be changed. MTK agrees the naming is wrong and think the two capabilities is for different deplyments and they should be separate. QC agrees.

- Apple explain that ca is used for intra LTE ..

- Apple and Samsung and LG support this

P7

- Nokia wonder what this means. Huawei think it means always delete

- Ericsson wonder if conditional would make sense that b is support if a is supported.

- QC think the caps shall be seprate/independent. MTK also support separate, but could consider conditional. Intel agrees with MTK. (both 7 and 9).

- Nokia can live with separate if it is conditional. Huawei think we can try that

* Remove FFS1 in endc-IdleInactiveMeasurements-r16, i.e. a LTE UE that supports *endc-IdleInactiveMeasurements-r16* is not required to support *ca-IdleInactiveMeasurements-r16*.
* Remove FFS2 in endc-IdleInactiveMeasurements-r16, i.e. in LTE, endc-IdleInactiveMeasurements-r16 applies to LTE IDLE, INACTIVE, and RRC connection suspension states.
* In NR, UE capability for MCG RLF recovery via SCG does not distinguish between NR and E-UTRA SCG.
* Discuss whether it is agreeable that a LTE UE that supports idleInactiveValidityAreaList-r16 is not required to support ca-IdleModeValidityArea-r15 (i.e. remove the FFS).
* We will have 2 separate NR capabilities, ca-idle-inactive-MeasReport-r16 and nedc-idle-inactive-MeasReport-r1, to distinguish LTE and NR measurements (naming TBD)
* Split resumeWithSCells -r16 in two separate LTE capabilities:  
  a) not deleting stored MCG SCell configuration when initiating the resume procedure"  
  b) (re-)configuration of MCG SCells in the RRCConnectionResume message",

**Condition: if Ue support a the UE also must support b**

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003656.zip) and [R2-2003657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003657.zip). 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

* Noted

DISCSSUSION

- Ericsson think there is a problem bec now MN do not need to read SN configuration. Ericsson thikn that in any case the power sharing can work in intra-vendor scenarios,

- Nokia think that large T\_offset is anyway a problem which would bring bad performance and should not have been asked. QC and Apple think R2 sholdn’t express any opinion.

- Apple think R1 are ok with that R2 design inter node message.

- Chair think we can : a) do nothing, b) design inter-node coord,

- QC think we should do b)

- vivo agree with QC, and think that in mansy cases MN can decode SN configuration.

- Huawei prefers a), and leave it to network implementation.

- CATT thikn we can tell R1 that this can work in intra-vendor scenario. Samsung think that anyway R1 will discuss again and we can wait. Intel agrees with Samsung.

- ZTE think there are problems also for intra vendor scenario and think we should discuss solutions.

Chair summary on Toffset: In the current standard, there is no explicit support for the R1 WA (MN is not required to read/understand SN configuration). There is some support among R2 companies to make an effort to specify new functions that might resolve this, but several companies don’t want to standardize anything. Several companies think that non-standard network implementation can support/enable the R1 WA. For now thre is not sufficient support among companies to take action in R2. Chair is not sure how mature this attitude is and suggest to wait. Possibly we send a Reply LS to R1 from Next meeting.

**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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003790.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003790.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003770.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003812.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003812.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003812.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002601.zip) Report of email discussion [Post109e#42][PowSav] UE capabilities Intel Corporation discussion Rel-16 NR\_UE\_pow\_sav

[R2-2002602](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002602.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002842.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002797.zip) PDCCH-WUS Mechanism Apple discussion NR\_UE\_pow\_sav-Core

[R2-2002839](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002839.zip) Remaining issues of DCP impact on SCell dormancy OPPO discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2002866](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002866.zip) Remaining issues for DCP vivo discussion Rel-16 FS\_NR\_UE\_pow\_sav

[R2-2002930](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002930.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003032.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003288.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003562.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002670.zip) Power Saving UE assistance information Sony discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2002798](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002798.zip) Value Range for UE Assistance Information Apple discussion NR\_UE\_pow\_sav-Core

[R2-2002838](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002838.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003229.zip) Adopting general UE assistance reporting framework to UE power saving Samsung Telecommunications discussion Rel-16

[R2-2003289](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003289.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003472.zip) Discussion on clarification for max MIMO layer and antenna port Huawei, HiSilicon discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2003473](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003473.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002665.zip) UE power saving for inter frequency measurements Sony discussion Rel-16 NR\_UE\_pow\_sav-Core R2-2000827

[R2-2002735](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002735.zip) Configurations for RRM Measurement Relaxation MediaTek Inc. discussion

[R2-2002791](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002791.zip) Report of [Post109e#44][PowSav] RRM open issues CATT discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2002865](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002865.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002867.zip) Configurations for RRM Measurement Relaxation vivo discussion Rel-16 FS\_NR\_UE\_pow\_sav

[R2-2002950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002950.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003219.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003324.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002521.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002524.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002544.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002545.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002896.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003487.zip) draft TS 38.314 CMCC draft TS Rel-16 38.314 0.1.0 NR\_SON\_MDT-Core

[R2-2003488](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003488.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002555.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002606.zip) Remaining Issues of UE Location Information Qualcomm Incorporated discussion Rel-16

[R2-2002731](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002731.zip) [C201 C203 C204] Discussion on Location Related Measurement Collection in MDT CATT discussion Rel-16 NR\_SON\_MDT-Core

[R2-2002732](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002732.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002733.zip) [C253 C256 C257] Discussion for CEF Report CATT discussion Rel-16 NR\_SON\_MDT-Core

[R2-2002747](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002747.zip) [C253 C256 C257] Corrections for CEF Report CATT draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

[R2-2002826](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002826.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003074.zip) Open issues associated of MDT Ericsson discussion

[R2-2003076](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003076.zip) [E002] On mobilityState reporting Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

[R2-2003084](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003084.zip) [E010] On stopping T330 upon going to idle Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

[R2-2003085](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003085.zip) [E012] On logging TAC in CEF report Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

[R2-2003086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003086.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003087.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003088.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003091.zip) [E026] On creation of MeasQuantityResultsLogged-r16 Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

[R2-2003093](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003093.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003104.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003117.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003118.zip) [C265] Corrections on Recording the UE History Information CATT draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

[R2-2003120](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003120.zip) Introduction of TAC Information in CEF Report CATT draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

[R2-2003121](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003121.zip) Miscellaneous corrections for 37.320 CATT draftCR Rel-16 37.320 16.0.0 F NR\_SON\_MDT-Core

[R2-2003158](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003158.zip) Resolving MDT stage 2 open issues Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

[R2-2003159](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003159.zip) Miscellaneous corrections Nokia (Rapporteur) CR Rel-16 37.320 16.0.0 0082 - F NR\_SON\_MDT

[R2-2003160](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003160.zip) N011, N012, N013, N014 on PLMN Id association with cell Id Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

[R2-2003161](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003161.zip) N015 on referencing TS23.122 Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

[R2-2003499](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003499.zip) Removal of Management Based MDT Allowed IE for NR MDT CMCC discussion Rel-16 NR\_SON\_MDT-Core

[R2-2003500](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003500.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003574.zip) Minor issues on MDT Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2003798](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003798.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002751.zip) Discussion on metric of number of active UEs in RRC connected NTT DOCOMO INC. discussion

[R2-2002897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002897.zip) Remaining issues on L2 measurement vivo discussion

[R2-2002898](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002898.zip) CR37320 for M5 ~ M7 vivo CR Rel-16 37.320 16.0.0 0079 - B NR\_SON\_MDT-Core

[R2-2003073](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003073.zip) Open issues of L2 measurements Ericsson discussion

[R2-2003165](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003165.zip) Correction of DL packet delay Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

[R2-2003486](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003486.zip) Summary of AI 6.12.3 L2 measurements CMCC (Summary Rapporteur) discussion Rel-16 NR\_SON\_MDT-Core Late

[R2-2003489](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003489.zip) Miscellaneous corrections for draft TS 38.314 CMCC discussion Rel-16 NR\_SON\_MDT-Core

[R2-2003575](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003575.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002562.zip) Corrections to RA Report\_S480\_S481\_S482\_S483\_S484\_S485 Samsung Electronics Co., Ltd discussion Rel-16 NR\_SON\_MDT-Core

[R2-2002720](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002720.zip) Remaining Aspects on UE History Information Mediatek Inc. discussion

[R2-2002760](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002760.zip) Discussion on terminology of handover failure in rel-16 SON MDT NTT DOCOMO INC. discussion

[R2-2002761](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002761.zip) Discussion on UE capability for location reporting in SCG failure NTT DOCOMO INC. discussion

[R2-2002827](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002827.zip) Remaining issues for NR SON: [S472] [S473] [S475] [S476] [S477] [S478] [S479] Samsung discussion NR\_SON\_MDT-Core

[R2-2002923](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002923.zip) [Z152] Correction to RACH report and RLF report ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core

[R2-2002924](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002924.zip) Enhancement on RLF report for MRO ZTE Corporation, Sanechips discussion Rel-16 NR\_SON\_MDT-Core

[R2-2003075](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003075.zip) Open issues associated to SON functions Ericsson discussion

[R2-2003077](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003077.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003080.zip) [E009] On LTE previousPCell inclusion in NR RLFReport Ericsson draftCR Rel-16 38.331 16.0.0 B NR\_SON\_MDT-Core

[R2-2003081](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003081.zip) [E009] On NR previousPCell inclusion in LTE RLFReport Ericsson draftCR Rel-16 36.331 16.0.0 B NR\_SON\_MDT-Core

[R2-2003082](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003082.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003083.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003089.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003090.zip) [E023] On including beamFailureRecoveryFailure in SCGFailureInformationNR message Ericsson draftCR Rel-16 36.331 16.0.0 F NR\_SON\_MDT-Core

[R2-2003092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003092.zip) [E028] On SON-MDT related UE capabilities addition Ericsson draftCR Rel-16 38.331 16.0.0 F NR\_SON\_MDT-Core

[R2-2003119](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003119.zip) Consideration on Adding the Re-connection Attempt Cell Identity CATT, CMCC discussion

=> Revised in [R2-2003784](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003784.zip)

[R2-2003784](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003784.zip) Consideration on Adding the Re-connection Attempt Cell Identity CATT, CMCC discussion

[R2-2003162](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003162.zip) N016 on missing RA-report availability indicator Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

[R2-2003163](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003163.zip) N017 RA-report also for failed RA procedures Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

[R2-2003164](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003164.zip) N018 Actions upon successful completion of random-access procedure Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT

[R2-2003576](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003576.zip) Minor issues on SON Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2003800](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003800.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003009.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002585.zip) Remaining Issues on Resource Selection in 2-setp RACH vivo discussion

[R2-2002668](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002668.zip) msgB-RNTI ambiguity for CFRA and CBRA of 2-Step RACH Sony discussion Rel-16 NR\_2step\_RACH-Core R2-2000833

[R2-2002840](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002840.zip) Remaining issues of 2-step RACH OPPO discussion Rel-16 NR\_2step\_RACH-Core Late

[R2-2002965](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002965.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003007.zip) Discussion on remaining issues of 2-step RA Huawei, HiSilicon discussion Rel-16 NR\_2step\_RACH-Core

[R2-2003356](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003356.zip) Handling invalid POs for MsgA transmissions Ericsson discussion Rel-16 NR\_2step\_RACH-Core

[R2-2003357](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003357.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003362.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003666.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002556.zip) Issues - 2 step RA Samsung Electronics Co., Ltd discussion Rel-16 NR\_2step\_RACH-Core

[R2-2002878](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002878.zip) RAN2 related UE capability for 2-step RACH Intel Corporation discussion Rel-16 NR\_2step\_RACH-Core

[R2-2003255](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003255.zip) Remaining issue on 2-step CFRA Qualcomm Incorporated discussion Rel-16 NR\_2step\_RACH-Core

[R2-2003649](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003649.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002510.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002511.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002528.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003365.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002885.zip) Additional frequency information for CLI measurements Samsung CR Rel-16 38.331 16.0.0 1531 - F NR\_CLI\_RIM

[R2-2002909](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002909.zip) Additional configuration for CLI resources LG Electronics Inc. discussion Rel-16

[R2-2002911](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002911.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003380.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002883.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002870.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002871.zip) Correction on RLM RS configuration (RIL v102) vivo CR Rel-16 38.331 16.0.0 1530 - F NR\_eMIMO-Core

[R2-2003181](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003181.zip) [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:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003795.zip)

[R2-2002557](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002557.zip) Issues - SCell BFR Samsung Electronics Co., Ltd discussion Rel-16 NR\_eMIMO-Core

[R2-2002605](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002605.zip) Discussion on pending BFR SR upon SCell deactivation Sharp, Samsung discussion NR\_eMIMO-Core

[R2-2002872](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002872.zip) Discussion on the SCell BFD on the deactivated SCell vivo discussion Rel-16 NR\_eMIMO-Core

[R2-2002873](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002873.zip) Correction on the SP SRS ActivationDeactivation MAC CE vivo discussion Rel-16 NR\_eMIMO-Core

[R2-2002882](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002882.zip) Considerations on the number of pathloss RSs indicated by MAC CE Samsung discussion Rel-16 NR\_eMIMO-Core

[R2-2002926](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002926.zip) SR configuration for SCell beam failure recovery Lenovo, Motorola Mobility discussion Rel-16 NR\_eMIMO-Core

[R2-2002954](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002954.zip) CC list-based SRS Activation/Deactivation MAC CE design OPPO discussion Rel-16 NR\_eMIMO-Core

[R2-2002957](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002957.zip) [Post109e#17] Identified other open issues Fujitsu discussion Rel-16 NR\_eMIMO-Core

[R2-2003051](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003051.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003052.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003252.zip) Correction on new DL MIMO MAC CE Qualcomm Incorporated discussion Rel-16 NR\_eMIMO-Core

[R2-2003253](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003253.zip) Cancellation the pending BFR SR Qualcomm Incorporated discussion Rel-16 NR\_eMIMO-Core

[R2-2003358](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003358.zip) Change LCID to eLCID for MIMO MAC CEs Ericsson CR Rel-16 38.321 16.0.0 0723 - F NR\_eMIMO-Core

[R2-2003588](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003588.zip) Remaining issue on aborting of ongoing RACH triggred by SR ZTE, Sanechips discussion Rel-16 NR\_eMIMO-Core

[R2-2003618](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003618.zip) Discussion on open issues on BFR MAC CE Google Inc. discussion Rel-16

[R2-2003650](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003650.zip) Remaining issues regarding cancellation of triggered BFRs for SCell ASUSTeK discussion Rel-16 38.321 NR\_eMIMO-Core

[R2-2003651](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003651.zip) Discussion on completion of RA procedure for SCell beam failure recovery ASUSTeK discussion Rel-16 38.321 NR\_eMIMO-Core

[R2-2003663](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003663.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003795.zip) Summary of proposed corrections\_AI\_6\_16\_3 Samsung Electronics Co., Ltd discussion Rel-16 NR\_eMIMO-Core

BFR on SpCell

[R2-2002795](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002795.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003034.zip) Consideration on SpCell BFR MAC CE LG Electronics Inc. discussion NR\_eMIMO-Core

[R2-2003713](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003713.zip) BFR MAC CE for SpCell Huawei, HiSilicon discussion Rel-16 NR\_eMIMO-Core

Timer based BFR MAC CE Transmission

[R2-2002796](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002796.zip) Timer based BFR MAC CE Transmission Apple, Nokia, Nokia Shanghai Bell discussion NR\_eMIMO-Core

[R2-2003589](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003589.zip) Remaining issues on BFR on SCell ZTE, Sanechips discussion Rel-16 NR\_eMIMO-Core

[R2-2003712](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003712.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003345.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002502.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002659.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002666.zip) Blacklist/whitelist for PCI range signaling and stage-3 details Sony discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2002745](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002745.zip) Further consideration on the PCI range ZTE Corporation, Sanechips discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2002746](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002746.zip) Further consideration on the cell reselection for the licensed spectrum ZTE Corporation, Sanechips discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2003319](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003319.zip) Cell reselection restriction for SNPN and CAG Intel Corporation discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2003501](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003501.zip) Remaining Issues the PCI Range CMCC discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2003507](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003507.zip) Remaining issues on access and mobility control for NPN CMCC discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2003529](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003529.zip) Discussion on the ANR for NPN vivo discussion

[R2-2003604](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003604.zip) Emergency sessions on CAG-only cell for non-CAG capable R16 UEs LG Electronics France discussion NG\_RAN\_PRN-Core

[R2-2003606](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003606.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002593.zip) Cell selection and reselection for NPN Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2002594](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002594.zip) Manual selection of PNI NPNs when CAG is broadcast Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2002734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002734.zip) Discussion on HRNNs Reporting Issue CATT discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2002736](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002736.zip) Discussion on UE Behavior in Licensed Band with Non-CAG Member Cell CATT discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2003259](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003259.zip) Consideration of HRNN and UAC in PRN China Telecom discussion Rel-16

[R2-2003261](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003261.zip) Remaining issues discussion on NPN China Telecom discussion Rel-16

[R2-2003394](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003394.zip) Emergency call support on CAG-only cells Qualcomm Incorporated discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2003421](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003421.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003474.zip) Discussion on manual CAG selection Huawei, HiSilicon, China Telecom discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2003475](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003475.zip) Discussion on mechanisms for the network to control manual NPN selection Huawei, HiSilicon, China Telecom discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2003558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003558.zip) Some Issues related to 38.304 Samsung R&D Institute India discussion

[R2-2003605](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003605.zip) Intra-frequency reselection upon selecting non-suitable SNPN cell LG Electronics France discussion NG\_RAN\_PRN-Core

[R2-2003608](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003608.zip) 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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_109bis-e\Docs\R2-2002811.zip) Discussion on NeedForGap Apple discussion TEI16

[R2-2002812](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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

[R2-2003724](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_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\TSGR2_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\TSGR2_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

* [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\TSGR2_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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_107bis\Docs\R2-1913159.zip)

* [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\TSGR2_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\TSGR2_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\TSGR2_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\TSGR2_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)

[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

[R2-2003754](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_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

### 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003204.zip), [R2-2003203](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003203.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003787.zip)

[R2-2003787](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003787.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

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003612.zip)

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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003231.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002550.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002503.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002849.zip) Miscellaneous Rel-16 eMTC corrections Qualcomm Incorporated CR Rel-16 36.331 16.0.0 4239 - F LTE\_eMTC5-Core

[R2-2003351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003351.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003352.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003134.zip) Solution for the short quality reporting for eMTC Ericsson discussion Rel-16

[R2-2003182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003182.zip) Msg3 Quality report way forward on open issue Qualcomm Incorporated discussion Rel-16 LTE\_eMTC5-Core

[R2-2003183](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003183.zip) Introduce 2-bit CQI based on Solution 1 Qualcomm Incorporated draftCR Rel-16 36.321 16.0.0 LTE\_eMTC5-Core

[R2-2003343](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003343.zip) TP for 2-bit Quality report in Msg3 Huawei, HiSilicon discussion Rel-16 LTE\_eMTC5-Core

[R2-2003785](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003785.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002879.zip) Non-BL UE in enhanced coverage mode in “normal” cell Intel Corporation discussion Rel-16 LTE\_eMTC5-Core

[R2-2003344](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003344.zip) Enhancements to idle mode mobility for non-BL UEs Huawei, HiSilicon discussion Rel-16 LTE\_eMTC5-Core

[R2-2003353](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003353.zip) S-Criterion interpretation for non-BL UEs Ericsson discussion LTE\_eMTC5-Core

[R2-2003791](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003791.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003354.zip) Remaining issues for LTE-M standalone deployment Ericsson discussion LTE\_eMTC5-Core

[R2-2003771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003771.zip) Finalization of TP for cell selection at standalone cell Nokia, Nokia Shanghai Bell discussion Rel-16 Late

[R2-2003792](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003792.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003138.zip) Introduction of RSS Configurations Ericsson CR Rel-16 36.331 16.0.0 4246 - B LTE\_eMTC5-Core

[R2-2003141](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003141.zip) Report on Email discussion RSS Configurations Ericsson discussion Rel-16

[R2-2003188](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003188.zip) Permit early implementation of relaxed serving cell measurement Qualcomm Incorporated draftCR Rel-16 36.331 16.0.0 LTE\_eMTC5-Core Late

[R2-2003814](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003814.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003477.zip) Further discussion on NB-IoT coexistence with NR ZTE Corporation, Sanechips discussion Rel-16 NB\_IOTenh3-Core

[R2-2003478](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003478.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002607.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002609.zip) Idle Mode cell reselection based on CN type supported Qualcomm Incorporated, TurkCell discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core [R2-1914789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_108\Docs\R2-1914789.zip)

[R2-2002610](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002610.zip) Early UE capability retrieval enhancements for eMTC/5GC Qualcomm India Pvt Ltd discussion Rel-16 LTE\_eMTC5-Core R2-2000536

[R2-2002611](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002611.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002929.zip) Draft reply LS on suspension indication to 5G NAS Qualcomm India Pvt Ltd LS out Rel-16 LTE\_eMTC5-Core To:CT1

[R2-2003428](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003428.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003430.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003796.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003341.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002841.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003268.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003279.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003185.zip) Interworking between Cat M and NR Qualcomm Incorporated discussion LTE\_eMTC5-Core

[R2-2003186](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003186.zip) Draft Reply LS on category M devices and NR Qualcomm Incorporated LS out LTE\_eMTC5-Core To:SA2

[R2-2003187](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003187.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002587.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003249.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002671.zip) On supporting UE group WUS operation with mobility Sony discussion Rel-16 NB\_IOTenh3-Core

[R2-2003101](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003101.zip) Consideration on WUS paging probability parameter Lenovo, Motorola Mobility discussion Rel-16

[R2-2003102](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003102.zip) Group WUS for mobile UE Lenovo, Motorola Mobility discussion Rel-16

[R2-2003184](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003184.zip) Clarification of WUS resource configuration Qualcomm Incorporated draftCR Rel-16 36.331 16.0.0 LTE\_eMTC5-Core

[R2-2003328](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003328.zip) E-mail-Discussion-Summary for Post109e-32 : Finalise TP for TS36.304 for WUS Nokia, Nokia Shanghai Bell discussion Rel-16

[R2-2003329](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003329.zip) Draft TP for TS36.304 Nokia, Nokia Shanghai Bell discussion Rel-16

[R2-2003431](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003431.zip) Report - Email discussion [Post109e#45][NB-IoT/eMTC] WUS open issues Ericsson discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core Late

[R2-2003485](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003485.zip) Formula for WUS group selection ZTE Corporation, Sanechips discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2003741](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003741.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003257.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003258.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003267.zip) Correction on TA timer maintenance ZTE Corporation, Sanechips draftCR Rel-16 36.321 16.0.0 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2003278](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003278.zip) Capture RRC setup using PUR ZTE Corporation, Sanechips draftCR Rel-16 36.331 16.0.0 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2003331](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003331.zip) Security Aspects of PUR Configuration for CP Nokia, Nokia Shanghai Bell discussion

[R2-2003355](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003355.zip) Moving UL grant handling from MAC to RRC for PUR Ericsson, Huawei, HiSilicon discussion NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2003415](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003415.zip) TA validation based on serving cell RSRP change (related to RAN4 LSes) Sierra Wireless, S.A. discussion Rel-16 R2-2000443

[R2-2003429](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003429.zip) Configuration and adjustment of repetition number Sierra Wireless, S.A. discussion Rel-16

[R2-2003652](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003652.zip) Remaining issues of D-PUR TA timer in MAC ASUSTeK discussion Rel-16 38.321 NB\_IOTenh3-Core

[R2-2003653](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003653.zip) PUR configuration maintenance during RRC state transition ASUSTeK discussion Rel-16 36.331 NB\_IOTenh3-Core

[R2-2003746](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003746.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003131.zip) To Verify ANR Measurements Ericsson, Nokia, Nokia Shanghai Bell, ZTE Corporation discussion Rel-16

[R2-2003133](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003133.zip) Logging of CE Level for RLF and ANR measurements Ericsson discussion Rel-16

[R2-2003139](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003139.zip) Draft LS to RAN4 on ANR Measurements Ericsson [To be RAN2] LS out Rel-16 NB\_IOTenh3-Core To:RAN4

[R2-2003247](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003247.zip) SON remaining issues Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core

[R2-2003291](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003291.zip) Remaining FFSs for SON in NB-IoT ZTE Corporation, Sanechips discussion Rel-16 NB\_IOTenh3-Core

[R2-2003669](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003669.zip) Report of [Post109e#15][NBIOT] UE specific DRX DRX cycle values Sequans Communications discussion Rel-16 NB\_IOTenh3-Core

[R2-2003747](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003747.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003780.zip)

[R2-2003780](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003780.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003815.zip)

[R2-2003815](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003815.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003748.zip) [Draft] Reply LS on Rel-16 NB-IoT enhancements Huawei LS out Rel-16 NB\_IOTenh3-Core To:CT1, RAN3 Cc:SA2

[R2-2003749](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003749.zip) [Draft] LS on UE specific DRX in NB-IoT Huawei LS out Rel-16 NB\_IOTenh3-Core To:RAN4

[R2-2003786](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003786.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002588.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003248.zip) 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](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2003250.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003250.zip) [H108][H109] TP on WUS sugnalling for per gap configuration Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core Late

[R2-2003251](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003251.zip) [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](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2003262.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003262.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003263.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003370.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003777.zip) 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](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2002590.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002590.zip) Open issues for user plane aspects of DAPS HO Ericsson discussion Rel-16 NR\_Mob\_enh-Core

[R2-2002608](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002608.zip) PDCP Status Reporting enhancements for DAPS DRBs Qualcomm India Pvt Ltd discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2002737](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002737.zip) PDCP Status Report for UM DRBs in DAPS HO MediaTek Inc. discussion

[R2-2002864](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002864.zip) Handling of compressed PDCP SDUs stored in reception buffer LG Electronics Inc. discussion LTE\_feMob-Core

[R2-2002868](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002868.zip) CR on 36.321 for LTE feMob vivo CR Rel-16 36.321 16.0.0 1468 - F LTE\_feMob-Core

[R2-2002869](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002869.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002874.zip) Remaining user plane issues of DAPS vivo discussion Rel-16 LTE\_feMob-Core

[R2-2002953](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002953.zip) Discussion on PDCP status report for UM DRB OPPO discussion Rel-16 NR\_Mob\_enh-Core

[R2-2002997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002997.zip) Handling of security issue for DAPS without key change NEC discussion Rel-16 LTE\_feMob-Core

[R2-2003045](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003045.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003330.zip) On Remaining Issues for DAPS UP Nokia, Nokia Shanghai Bell discussion Rel-16

[R2-2003665](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003665.zip) 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](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2002591.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002591.zip) Subsequent RRC Procedures after DAPS handover Ericsson discussion Rel-16 NR\_Mob\_enh-Core

[R2-2002860](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002860.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002875.zip) Remaining control plane issues of DAPS vivo discussion Rel-16 LTE\_feMob-Core

[R2-2002952](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002952.zip) Correction on DAPS HO OPPO draftCR Rel-16 38.331 16.0.0 F NR\_Mob\_enh-Core

[R2-2003046](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003046.zip) Discussion on control plane aspects of DAPS HO Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core

[R2-2003108](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003108.zip) Remaining control plane issues for DAPS Nokia, Nokia Shanghai Bell discussion Rel-16 LTE\_feMob-Core

[R2-2003371](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003371.zip) Report of 109b#11 open issues on DAPS Intel Corporation discussion Rel-16 LTE\_feMob-Core, NR\_Mob\_enh-Core

[R2-2003372](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003372.zip) 38.331 CR on NR MOB Intel Corporation draftCR Rel-16 38.331 16.0.0 NR\_Mob\_enh-Core

[R2-2003502](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003502.zip) Discussion on network coordination and PHR report for DAPS HO CMCC. discussion Rel-16 LTE\_feMob-Core

[R2-2003530](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003530.zip) 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](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2002592.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002592.zip) Inter-node signalling for DAPS handover Ericsson discussion Rel-16 NR\_Mob\_enh-Core

[R2-2002905](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002905.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003047.zip) Discussion on open issues for UE capability coordination Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core

[R2-2003367](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003367.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003040.zip) 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](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_109bis-e\\Docs\\R2-2002887.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002887.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2002888.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003821.zip) [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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003546.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003547.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003364.zip) 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](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003544.zip) Discussion on MCCH configuration for 0.37kHz SCS Huawei, Hisilicon discussion

[R2-2003545](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003545.zip) 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