3GPP TSG-RAN WG2 Meeting #111 electronic R2-2xxxxxx

Online, August 17th - 28th, 2020

Source: RAN2 Chairman (Mediatek)

Title: Skeleton Notes

# Email Discussion List, Main Session

Email discussions with Deadline ***Short UE Cap*** are expected to produce endorsed Draft CRs (to be merged w main NR UE caps), with the deadline ***Endorsed Draft CRs ready Aug 21***

* [AT111-e][000] Organizational Main (Chairman)

Scope:

Deadline:

* [AT111-e][001][NR15] NR Stage-2 corrections (ZTE)

Scope: Treat [R2-2006870](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006870.zip), [R2-2007222](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007222.zip), [R2-2007223](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007223.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts.

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, if any, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][002][NR15] NR MAC corrections (Samsung)

Scope: Treat [R2-2006680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006680.zip), [R2-2006681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006681.zip), [R2-2007135](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007135.zip), [R2-2006657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006657.zip), [R2-2007725](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007725.zip), [R2-2007726](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007726.zip), [R2-2007727](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007727.zip), [R2-2007897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007897.zip), [R2-2007899](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007899.zip), [R2-2007861](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007861.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][003][NR15] L1 Parameters (vivo)

Scope: Treat [R2-2007057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007057.zip), [R2-2007058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007058.zip), [R2-2007504](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007504.zip), [R2-2006683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006683.zip), [R2-2006995](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006995.zip), [R2-2006996](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006996.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][004][NR15] L2 Parameters and Security (CATT)

Scope: Treat [R2-2008038](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008038.zip), [R2-2008039](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008039.zip), [R2-2006891](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006891.zip), [R2-2006892](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006892.zip), [R2-2007348](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007348.zip), [R2-2007349](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007349.zip), [R2-2006993](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006993.zip), [R2-2006994](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006994.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][005][NR15] Misc Configuration (ZTE)

Scope: Treat [R2-2008091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008091.zip), [R2-2008092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008092.zip), [R2-2007264](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007264.zip), [R2-2007265](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007265.zip), [R2-2006889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006889.zip), [R2-2006890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006890.zip), [R2-2007121](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007121.zip), [R2-2007122](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007122.zip), [R2-2008086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008086.zip), [R2-2008087](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008087.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][006][NR15] Measurments and System Information (ZTE)

Scope: Treat [R2-2006676](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006676.zip), [R2-2006677](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006677.zip), [R2-2008042](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008042.zip), [R2-2007405](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007405.zip)-7410, [R2-2006878](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006878.zip), [R2-2007942](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007942.zip)-7944 (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs, and possibly LS out.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][007][NR15] Inter Node and NR Misc (Ericsson)

Scope: Treat [R2-2006884](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006884.zip), [R2-2006885](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006885.zip), [R2-2007674](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007674.zip), [R2-2007675](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007675.zip), [R2-2007643](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007643.zip), [R2-2007644](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007644.zip), [R2-2006999](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006999.zip), [R2-2007000](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007000.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][008][NR15] NR UAI (Huawei)

Scope: Treat [R2-2007792](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007792.zip), [R2-2007793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007793.zip), [R2-2007794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007794.zip), [R2-2007795](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007795.zip), [R2-2006986](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006986.zip), [R2-2006987](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006987.zip), [R2-2006997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006997.zip), [R2-2006998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006998.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][009][NR15] LTE SIB extension issue (NTT DOCOMO)

Scope: Treat [R2-2008083](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008083.zip), [R2-2007426](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007426.zip), R2-2008107 (proponents to drive)

Part 1: Start after on-line initial discussion, Confirm consequences of the issue, Try to find acceptable work-arounds, put solutions on the table – with initial round of comments to understand which could be acceptable.

Deadline: Aug 20, 0900 UTC.

Part 2: TBD. Urgency might depend on Whether acceptable Workarounds are found or not

Deadline: EOM

* [AT111-e][010][NR15] UE cap Clarifications (Huawei)

Scope: Treat [R2-2007209](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007209.zip), [R2-2007210](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007210.zip), [R2-2007211](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007211.zip), [R2-2007798](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007798.zip), [R2-2007799](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007799.zip), [R2-2007800](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007800.zip), [R2-2007796](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007796.zip), [R2-2007797](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007797.zip), [R2-2007885](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007885.zip), [R2-2007887](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007887.zip), [R2-2007850](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007850.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][011][NR15] UE cap Additions (vivo)

Scope: Treat [R2-2007303](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007303.zip), [R2-2007304](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007304.zip), [R2-2007305](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007305.zip), [R2-2007306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007306.zip), [R2-2007212](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007212.zip), [R2-2007213](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007213.zip), (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][012][NR15] Idle mode (QC)

Scope: Treat [R2-2007064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007064.zip), [R2-2007097](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007097.zip), [R2-2007119](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007119.zip), [R2-2007120](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007120.zip), [R2-2008040](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008040.zip), [R2-2008041](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008041.zip) (proponents to drive), Treat R2-2007963 (AI 6.1.3), include other corrections to be merged with rapporteur CR (if any)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][013][NR16] RRC Misc I (Ericsson)

Scope: Treat [R2-2007641](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007641.zip), [R2-2007642](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007097.zip), [R2-2007020](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007119.zip), R2-2006915, , R2-2008109 (proponents to drive), include other corrections to be merged with R16 RRC rapporteur CR (if any)

Part 1: Decision whether to make corrections, identify agreeable parts.

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][014][NR16] RRC Misc II (Ericsson)

Scope: Treat R2-2007275, R2-2007276, [R2-2007077](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007119.zip), R2-2006915, R2-2006934 (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts.

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][015][NR16] UE cap Main (Intel, NTT Docomo)

Scope: Treat assigned tdocs, merge endorsed output from other R16 UE caps (306 331) email discussions, take into account updated feature lists from R1 and R4. Produce final mega CRs 38306 38331.

Part 1: W1 Agree/Endorse 331 306 changes based on assigned tdocs.

Deadline for comments: Aug 20, 1000 UTC.

Part 2: W2 Review of updated R1 R4 feature lists. Agree on updates to 306 331 capturing updates from R1 and R4 based on rapporteur proposal, and merged endorsed output of other email discussions, Start TBD (Tuesday Aug 25?).

* [AT111-e][016][NR16] UE cap TRS bandwidth (Nokia)

Scope: Treat R2-2007498, R2-2007499, R2-2008089, R2-2008090 (proponents to drive)

Deadlines: Short NR UE cap

* [AT111-e][017][NR16] UE cap Beam Switch Timing (Lenovo)

Scope: Treat R2-2006880, R2-2006881, R2-2006882, R2-2007505, R2-2007506 (proponents to drive),

Deadlines: Short NR UE cap

* [AT111-e][018][NR16] UE cap MR-DC Power Class (Huawei)

Scope: Treat R2-2007112, R2-2007113, R2-2007114, R2-2008077, R2-2008078 (proponents to drive),

Deadlines: Short NR UE cap

* [AT111-e][019][NR16] UE cap UL TX switching (China Telecom)

Scope: Treat R2-2006985, 7604, 7949, 7085, 8106, 7086, 7950, 7087, 6895, 6896

Deadlines: Short UE Caps

* [AT111-e][020][NR16] UE cap RF FR2 (Nokia)

Scope: Treat R2-2007403, R2-2007082, R2-2007083, R2-2007380, R2-2007381

Deadlines: Short UE Caps

* [AT111-e][021][NR16] UE cap NR-DC (Qualcomm)

Scope: Treat R2-2006558, R2-2007946, R2-2007605,

Deadlines: Short UE cap

* [AT111-e][022][NR16] Early Implementation (CMCC)

Scope: Treat R2-2008102, R2-2008103, R2-2006716, R2-2007231

Expected Outcome: Agreed CR 38331

Deadline: CR Agreed by EOM, Deadline for comments 1 day earlier, or as set by rapporteur

* [AT111-e][023][NR16] NG-ENDC capability (vivo)

Scope: Treat R2-2008080, R2-2008081, R2-2008082

Deadline: Short UE cap

* [AT111-e][024][NR16] MAC Misc Corrections (Samsung)

Scope: Treat R2-2007717, R2-2007061, R2-2007713, include other corrections to be merged with rapporteur CR (if any)

Deadline: EOM

* [AT111-e][025][NR16] 38304 Misc Corrections (Qualcomm)

CANCELED

* [AT111-e][026][IAB] Stage-2 Corrections (Qualcomm)

Scope: Treat R2-2006504, 8363, 6963, 7315, 7374, 7509, 7539, 7545, 7536, 7535, 7965. Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27 0900 UTC

* [AT111-e][027][IAB] BAP Corrections (Huawei)

Scope: Treat further R2-2007484, 7966, 7316, 7483, 7967, 7317

Determine agreeable parts, Agree CRs

Deadline: Aug 26, Intermediate deadlines by Rapporteur if needed.

* [AT111-e][028][IAB] MAC Corrections (Samsung)

Scope: Treat R2-2007199, 7319, 7318, 7728, 7969, 7320, 7968. Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 25, Intermediate deadlines by Rapporteur if needed.

* [AT111-e][029][IAB] RRC Corrections (Ericsson)

Scope: Treat R2-2007323, 7972, 7976, 7507, 7520, 7522, 7524, 7975, 7324, 7534, 7970, 8088, 7538, 7973, 7162, 7974, 7977, 7978, 7321/7322, 7546, 7979, 7325, and 7982 (if needed)

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27, Intermediate deadlines by Rapporteur if needed.

* [AT111-e][030][IAB] UE capabilities (Nokia)

Scope: Treat R2-2008105, 6959, 7508 7980, 7981

Deadline: Short UE cap

* [AT111-e][031][IIOT] RRC Corrections (Ericsson)

Scope: Treat R2-2006888, 6710/6711, 6828, 6727, 7142/7151, 7388. Determine agreeable parts in a first phase, PDCP duplication part that overlaps with stage-2 discussion should await conclusions first. Agree CRs in a second phase

Deadline: Aug 26 0900 UTC. Intermediate deadlines by Rapporteur if needed.

* [AT111-e][032][IIOT] MAC support for PDCP duplication (ZTE)

Scope: Multi-entry MAC CE: Use R2-2007132 as baseline, can treat R2-2006698 and 6726 to bring in additional aspects, if any, Treat R2-2007390. Activation Deactivation: Treat R2-2007531,6600 (Take into account on-line discussion).

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

* [AT111-e][033][IIOT] MAC Corrections II (Samsung)

Scope: HARQ PID for SPS: Treat R2-2006712/7527 (related to RRC discussion), and R2-2007136. UE autonoumous retransmission: Treat R2-2007147, 7530, 6863, 7389, 8055

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

* [AT111-e][034][IIOT] EHC Corrections (Samsung)

Scope: Take into account on-line outcome, Treat R2-2008044, 6728, 8030, 8034, 8035

Determine agreeable parts, Agree CRs

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

* [AT111-e][036][NR-R4] CSIRS L3 and RF FR1 (CATT)

Scope: Treat R2-2007001, R2-2007002, R2-2007065

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 26 0900 UTC, Intermediate deadlines by Rapporteur if needed

* [AT111-e][037][NR-R4] MPE (Interdigital)

Scope: TBD after on-line

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Agreed CRs EOM, Deadline for comments at least 24h before. Intermediate deadlines by Rapporteur if needed.

* [AT111-e][038][TEI16] Full Rate UP IP (Deutsche Telekom)

Scope: Treat R2-2006538, 6715, 6825, 6826, 6907, 6908, 6909, 7586, 7638

Determine agreeable parts in a first phase, Agree CRs and Reply LS (if needed) in a second phase

Deadline: Agreed CRs/LS EOM, Deadline for comments at least 24h before. Intermediate deadlines by Rapporteur if needed.

* [AT111-e][039][TEI16] Secondary DRX corrections (Ericsson)

Scope: Treat R2-2007062, 7370, 7486, 7258, 7890

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Agreed CRs EOM, Deadline for comments at least 24h before. Intermediate deadlines by Rapporteur if needed.

* [AT111-e][040][TEI16] SMTC and NeedforGap Corrections (Nokia)

Scope: Treat R2-2007117, 7118, 7849, 7959

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

* [AT111-e][041][TEI16] Other Corrections (Huawei)

Scope: Treat R2-2007948, 7962, 7945, 8007

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

* [AT111-e][042][NR15] LTE Other (Nokia)

Scope: Treat [R2-2006997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006997.zip), [R2-2006998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006998.zip), R2-2007350, R2-2007351 (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

* [AT111-e][043][IIOT] Stage 2, DC CA duplication clarifications (Nokia)

Scope: take into account online discussion, Treat R2-2006918, 6919, 7133, 7891, 8056, 6637, 7138, 7387, 7149, 7150, Determine agreeable parts. Agree CRs

Deadline: Aug 26 0900 UTC. Intermediate deadlines by Rapporteur if needed.

* [AT111-e][044][IIOT] Intra UE prioritization (Apple)

Scope: Determine agreeable parts (before CRs), take into account on-line outcome. Agree CRs and LS out. Treat R2-2006920, 7127, 7237, 8058, 7106, 7107, 7108

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

# 1 Opening of the meeting

**This e-Meeting**

- This e-Meeting follows 3GPP principles for e-Meetings.

- RAN2 111 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.

- Descriptions on how this meeting is conducted can be found in tdoc on Guidelines under agenda item 2.4 below

## 1.1 Call for IPR

|  |
| --- |
| The attention of the delegates of this Working Group is drawn to the fact that **3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners **to inform their respective Organizational Partners of Essential IPRs** they become aware of.  The delegates were asked to take note that they were hereby invited:   * to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP. * to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (https://www.etsi.org/images/files/IPR/etsi-ipr-form.doc) |

NOTE: IPRs may be declared to the Director-General or Chairman of the SDO, but not to the RAN WG2 Chairman.

## 1.2 Network usage conditions

## 1.3 Other

|  |
| --- |
| In accordance with the Working Procedures it is reaffirmed that:  (i) compliance with all applicable antitrust and competition laws is required;  (ii) timely submissions of work items in advance of TSG or WG meetings are important to allow for full and fair consideration of such matters; and  (iii) the chairman will conduct the meeting with strict impartiality and in the interests of 3GPP |

Note on (i): In case of question please contact your legal counsel.

Note on (ii): WIDs don’t need to be submitted to the RAN2 meeting and will typically not be discussed here either.

# 2 General

## 2.1 Approval of the agenda

[R2-2006500](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006500.zip) Agenda for RAN2#111-e Chairman agenda Late

## 2.2 Approval of the report of the previous meeting

[R2-2006501](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006501.zip) RAN2#110bis-e Meeting Report MCC report Late

## 2.3 Reporting from other meetings

Brief Reporting from RP 88e:

1) TU’s are used as the nominal planning parameter also for e-Meetings. [RP-201361](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201361.zip) contains the endorsed TU plan for 2020 Q3. Note that the R2 part contains an error, R17 Other TU should be 0.5.

2) Release-16 is functionally frozen and ASN.1 is now considered formally frozen.

RAN2 Chair Comment: Still for Rel-16 UE capabilities, NBC changes can be accepted on consensus, and could be tolerated for other cases if there is consensus and a clear need (i.e. the statements in the R2 report in [RP-200521](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200521.zip) were not challenged).

4) RP discussion on finalizing the R16 UE capabilities can be found in [RP-201284](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201284.zip) where proposals 2, 3 and 4 are endorsed.

5) RAN2 scope for support of functionality for Rel-16 WI is 100% completed, except RAN2 CRs for a couple of RAN4 led topics.

6) FR2 fallback: This topic will be readdressed at RAN#89 in Sep -20, and not in WGs.

7) Secondary DRX: Tech Endorsed R2 CRs were approved.

## 2.4 Others

[R2-2008391](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008391.zip) RAN2#111-e Meeting Guidelines ETSI MCC

**Rapporteur changes**

**Spec former rapporteur proposed new rapporteur**

38.306 Naveen Palle (Intel) Seau Sian Lim (Intel)

36.331 Himke Vandervelde (Samsung) Seungri Jin (Samsung)

# 3 Incoming liaisons

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

# 4 EUTRA corrections Rel-15 and earlier

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

Only essential corrections. No documents should be submitted to 4. Please submit to 4.x

## 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. No web conference is planned for this agenda item

[R2-2006838](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006838.zip) 36331\_R15\_Clarification for NPRACH carrier selection ZTE Corporation, Sanechips, MediaTek Inc CR Rel-15 36.331 15.10.0 4354 - F NB\_IOTenh2-Core

[R2-2006840](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006840.zip) 36331\_R16\_Clarification for NPRACH carrier selection ZTE Corporation, Sanechips, MediaTek Inc CR Rel-16 36.331 16.1.1 4356 - A NB\_IOTenh2-Core

[R2-2007330](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007330.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-15 36.300 15.10.0 1264 3 F NB\_IOTenh2-Core, LTE\_eMTC4-Core R2-2005932

[R2-2007331](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007331.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-16 36.300 16.2.0 1265 2 F NB\_IOTenh2-Core, LTE\_eMTC4-Core R2-2005933

[R2-2007332](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007332.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-15 36.304 15.6.0 0795 2 F NB\_IOTenh2-Core, LTE\_eMTC4-Core R2-2005934

[R2-2007333](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007333.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-16 36.304 16.1.0 0796 2 F NB\_IOTenh2-Core, LTE\_eMTC4-Core R2-2005935

[R2-2007334](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007334.zip) Discussion of WUS last used cell Huawei, HiSilicon discussion Rel-15 NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2007566](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007566.zip) Way forward on WUS usage upon RRC connection release without S1 setup/release Qualcomm Incorporated discussion Rel-15 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. No web conference is planned for this agenda item

[R2-2007327](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007327.zip) Discussion of UP EDT for DRB using RLC AM Huawei, HiSilicon discussion Rel-15 NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2007328](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007328.zip) Clarification to UP-EDT Huawei, HiSilicon CR Rel-15 36.300 15.10.0 1298 - F NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2007329](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007329.zip) Clarification to UP-EDT Huawei, HiSilicon CR Rel-16 36.300 16.2.0 1299 - A NB\_IOTenh2-Core, 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.

[R2-2006777](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006777.zip) Corrections to data inactivity monitoring considering SL logical channels Samsung Electronics Co., Ltd CR Rel-15 36.321 15.9.0 1487 - F LTE\_eV2X-Core

[R2-2006778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006778.zip) Corrections to data inactivity monitoring considering SL logical channels Samsung Electronics Co., Ltd CR Rel-16 36.321 16.1.0 1488 - A LTE\_eV2X-Core

[R2-2007898](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007898.zip) Sidelink synchronization ID Qualcomm Finland RFFE Oy, Apple, Ericsson, Kyocera, ZTE, CATT, InterDigital, Lenovo, Motorola Mobility draftCR Rel-16 36.331 16.1.1 LTE\_eV2X

## 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.

[R2-2008051](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008051.zip) UE E-CID measurement reporting Nokia, Nokia Shanghai Bell CR Rel-15 36.305 15.5.0 0091 - F LCS\_LTE

## 4.5 Other LTE corrections Rel-15 and earlier

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

Including outcome of [Post110-e][254][LTE Capa] TDD/FDD differentiation or Rel-15 and earlier (Huawei)

Including outcome of [Post110-e][255][LTE CA] Clarification on non-contigous CA capabilities (Nokia)

[R2-2007517](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007517.zip) Summary on [Post110e-][255][LTE CA] Clarification on non-contiguous CA capabilities (Nokia) Nokia, Nokia Shanghai Bell discussion Rel-12 LTE\_CA-Core Late

[R2-2007518](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007518.zip) Clarification to Fallback band combination definition Nokia, Nokia Shanghai Bell CR Rel-16 36.306 16.1.0 1782 - F TEI16

[R2-2007554](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007554.zip) Corrections to the field descriptions for TDD/FDD capability differentiation Huawei, HiSilicon CR Rel-15 36.331 15.10.0 4389 - F TEI15

[R2-2007555](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007555.zip) Corrections to the field descriptions for TDD/FDD capability differentiation Huawei, HiSilicon CR Rel-16 36.331 16.1.0 4390 - A TEI15

[R2-2007556](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007556.zip) Report of [Post110-e][254][LTE Capa] TDD/FDD differentiation or Rel-15 and earlier (Huawei) Huawei, HiSilicon discussion Rel-15 TEI15

[R2-2007579](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007579.zip) Corrections on idle mode measurements Ericsson CR Rel-15 36.300 15.10.0 1305 - F LTE\_euCA-Core

R2-2007580 Corrections on idle mode measurements Ericsson CR Rel-15 38.300 15.10.0 0283 - F LTE\_euCA-Core Withdrawn

[R2-2007589](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007589.zip) Corrections on idle mode measurements Ericsson Inc. CR Rel-15 36.331 15.10.0 4392 - F LTE\_euCA-Core

[R2-2007697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007697.zip) Correction on T312 timer information ZTE Corporation, Sanechips CR Rel-16 36.331 16.1.0 4401 - F HetNet\_eMOB\_LTE-Core

[R2-2007719](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007719.zip) Correction on PDU generation for UL spatial multiplexing – Option 1 ASUSTeK CR Rel-14 36.321 14.12.0 1497 - F LTE\_LATRED\_L2-Core, TEI14

[R2-2007720](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007720.zip) Correction on PDU generation for UL spatial multiplexing – Option 2 ASUSTeK CR Rel-14 36.321 14.12.0 1498 - F LTE\_LATRED\_L2-Core, TEI14

[R2-2007721](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007721.zip) Correction on PDU generation for UL spatial multiplexing – Option 1 ASUSTeK CR Rel-15 36.321 15.9.0 1499 - A LTE\_LATRED\_L2-Core, TEI14

[R2-2007722](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007722.zip) Correction on PDU generation for UL spatial multiplexing – Option 2 ASUSTeK CR Rel-15 36.321 15.9.0 1500 - A LTE\_LATRED\_L2-Core, TEI14

[R2-2007723](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007723.zip) Correction on PDU generation for UL spatial multiplexing – Option 1 ASUSTeK CR Rel-16 36.321 16.1.0 1501 - A LTE\_LATRED\_L2-Core, TEI14

[R2-2007724](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007724.zip) Correction on PDU generation for UL spatial multiplexing – Option 2 ASUSTeK CR Rel-16 36.321 16.1.0 1502 - A LTE\_LATRED\_L2-Core, TEI14

[R2-2007843](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007843.zip) Minor changes collected by Rapporteur Samsung CR Rel-15 36.331 15.10.0 4413 - F TEI15

[R2-2008022](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008022.zip) ROHC decompression failure at PDCP re-establishment Samsung discussion Rel-15 TEI15, LTE\_HRLLC-Core

[R2-2008023](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008023.zip) CR on PDCP re-establishment when t-Reordering is used Samsung CR Rel-15 36.323 15.6.0 0288 - F TEI15, LTE\_HRLLC-Core

[R2-2008027](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008027.zip) CR on PDCP re-establishment when t-Reordering is used Samsung CR Rel-16 36.323 16.1.0 0289 - F LTE\_HRLLC-Core, TEI16

# 5 Rel-15 WI: New Radio (NR) Access Technology

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 19: WID: [RP-191971](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_85\Docs\RP-191971.zip))

Only essential corrections

## 5.1 Organisational

Incoming LSs, etc.

## 5.2 Stage 2 corrections

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

### 5.2.1 TS 3x.300

PWS – Treated on line

[R2-2007030](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007030.zip) Discussion on regional Public Warning Systems Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

* noted

5 docs moved from 5.4.1.5:

[R2-2007253](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007253.zip) Clarification for KPAS and EU-alert Ericsson, Nokia discussion Rel-15 NR\_newRAT-Core

* noted

DISCUSSION

- Ericsson think that for CBS only EU-alert and KPAS is mentioned. Ericsson don’t know where this is specifief that more systems use this.

- Chair proposes to start with the stage-2 clarification.

- QC have some sympathy for Huawei proposal and think it becomes problematic to list all systems.

- ZTE think that Huawei CR is a bit too slim and think we should list all regional warning systems.

- Nokia think that the text shall at least be correct, and think the mixing of ETWS and CMAS is not correct as the mechanisms are different.

- Ericsson also think the Huwei text is not correct, and think it is safer to just list KPAS and EU-alert as we know this works.

- LG think that in LTE we specify explicitly, and support Ericsson Nokia CRs. Samsung also support Ericsson Nokia proposal.

- Oppo agrees with the intention of Huawei.

- Huawei think that clarification should be future proof, and we could use “e.g.”. For example CT1 specification is generic and allows operator specific messages that are none of the listed systems.

- QC also think this is not so important and we could also go with Ericsson and Nokia CRs.

- vivo think also that for the future we shouldn’t update further.

- Huawei are fine with the stage-2 CRs from Nokia and Ericsson but think we should not have the stage-3 ones.

- Ericsson think that stage-3 CRs further clarify but could be ok to not have this.

* Will have a stage-2 clarification

[R2-2007254](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007254.zip) Clarification for KPAS and EU-alert 38.300 Ericsson, Nokia CR Rel-15 38.300 15.10.0 0231 1 F NR\_newRAT-Core R2-2004846

[R2-2007255](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007255.zip) Clarification for KPAS and EU-alert 38.300 Ericsson, Nokia CR Rel-16 38.300 16.2.0 0232 1 A NR\_newRAT-Core R2-2004847

* both agreed

[R2-2007256](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007256.zip) Clarification for KPAS and EU-alert 38.331 Ericsson, Nokia CR Rel-15 38.331 15.10.0 1628 2 F NR\_newRAT-Core R2-2006234

[R2-2007257](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007257.zip) Clarification for KPAS and EU-alert 38.331 Ericsson, Nokia CR Rel-16 38.331 16.1.0 1629 2 A NR\_newRAT-Core R2-2006235

* both not agreed

2 Not Treated:

[R2-2007031](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007031.zip) Clarification on regional Public Warning Systems Huawei, HiSilicon CR Rel-15 38.300 15.10.0 0266 - F NR\_newRAT-Core

[R2-2007032](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007032.zip) Clarification on regional Public Warning Systems Huawei, HiSilicon CR Rel-16 38.300 16.2.0 0267 - A NR\_newRAT-Core

* [AT111-e][001][NR15] NR Stage-2 corrections (ZTE)

Scope: Treat [R2-2006870](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006870.zip), [R2-2007222](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007222.zip), [R2-2007223](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007223.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts.

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, if any, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

[R2-2008425](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008425.zip) Summary of offline 001 - NR Stage 2 corrections ZTE

- [001] Chair: Proposals are agreed. On P2, I suggest that Rapporteurs of 37340 3x300 discuss together. In other TSes I think we try to be careful aboiut this particular language (as there is some significance to it). Should however also be careful about R16-only R15-related language updates.

* [001] Noted

Treated by email

[R2-2006870](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006870.zip) Clarification on NCGI ZTE corporation, Sanechips, Nokia (Rapporteur) CR Rel-16 38.300 16.2.0 0260 - F NR\_newRAT-Core

* [001] Agreed

Moved from 5.2:

[R2-2007222](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007222.zip) Correction on Timing advance group related clarification vivo CR Rel-15 38.300 15.10.0 0270 - F NR\_newRAT-Core

[R2-2007223](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007223.zip) Correction on Timing advance group related clarification vivo CR Rel-16 38.300 16.2.0 0271 - A NR\_newRAT-Core

* [001] Topic is postponed, and assigned to TS rapporteurs. Can consider these CRs postponed (until issue decided by rapporteurs).

### 5.2.2 TS 37.340

## 5.3 Stage 3 user plane corrections

### 5.3.1 MAC

All treated by email, at least initially:

* [AT111-e][002][NR15] NR MAC corrections (Samsung)

Scope: Treat [R2-2006680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006680.zip), [R2-2006681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006681.zip), [R2-2007135](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007135.zip), [R2-2006657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006657.zip), [R2-2007725](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007725.zip), [R2-2007726](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007726.zip), [R2-2007727](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007727.zip), [R2-2007897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007897.zip), [R2-2007899](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007899.zip), [R2-2007861](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007861.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

R2-200xxxx Report of [AT111-e][002][NR15] NR MAC corrections (Samsung) Samsung

- [002] Aug 25, intermediate: Chair: it seems that all proposals are agreeable except P4’s, which are still discussed.

CSI-RS

[R2-2006680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006680.zip) Correction to SP CSI-RS/CSI-IM Resource Set Activation/Deactivation MAC CE handling Samsung CR Rel-15 38.321 15.9.0 0770 - F NR\_newRAT-Core

[R2-2006681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006681.zip) Correction to SP CSI-RS/CSI-IM Resource Set Activation/Deactivation MAC CE handling Samsung CR Rel-16 38.321 16.1.0 0771 - A NR\_newRAT-Core

* [002] Both not pursued

HARQ

[R2-2007135](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007135.zip) Clarification on HARQ process ID determination for SPS OPPO, Samsung CR Rel-15 38.321 15.9.0 0803 - F NR\_newRAT-Core

* [002] Only NOTE 1 in R2-2007135 is agreed, and 'that takes place' shall be removed from NOTE 1. OPPO provides the revision of R2-2007135.

UL Grant

[R2-2006657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006657.zip) Clarification on operations in a bundle of UL grants Samsung CR Rel-15 38.321 15.9.0 0767 - F NR\_newRAT-Core

* [002] Agreed

[R2-2007725](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007725.zip) DRX with bundle transmission of configured uplink grant ASUSTeK discussion Rel-16 38.321 NR\_newRAT-Core

[R2-2007726](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007726.zip) Correction on DRX with bundle transmission of configured uplink grant ASUSTeK CR Rel-15 38.321 15.9.0 0834 - F NR\_newRAT-Core

[R2-2007727](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007727.zip) Correction on DRX with bundle transmission of configured uplink grant ASUSTeK CR Rel-16 38.321 16.1.0 0835 - A NR\_newRAT-Core

[R2-2007897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007897.zip) Correction to not (re)starting drx-InactivityTimer when dynamic grant is skipped MediaTek Inc. CR Rel-15 38.321 15.9.0 0848 - F NR\_newRAT-Core

[R2-2007899](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007899.zip) Correction to not (re)starting drx-InactivityTimer when dynamic grant is skipped MediaTek Inc. CR Rel-16 38.321 16.1.0 0849 - A NR\_newRAT-Core

* [002] Both not pursued

MSG3

[R2-2007861](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007861.zip) Clarification on collision between uplink grant for MSG3 retransmission and DG Huawei, HiSilicon CR Rel-15 38.321 15.9.0 0843 - A NR\_newRAT-Core

* [002] not pursued

### 5.3.2 RLC

### 5.3.3 PDCP

Minor potentially easy, treat on-line

[R2-2007059](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007059.zip) 38323 CR PDCP entity associated with AM RLC entity LG Electronics Inc., Ericsson CR Rel-15 38.323 15.6.0 0051 - F TEI15

- Nokia think there is a small spelling error above the change that can be fixed as well.

- Huawei want to keep aligned text between LTE and NR. LG was thinking about this, but the style is different to LTE and this change is simpler. Samsung agree with LG.

* Revised in R2-200xxxy (take into account the spelling error), revision is agreed unseen

[R2-2007060](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007060.zip) 38323 CR PDCP entity associated with AM RLC entity LG Electronics Inc., Ericsson CR Rel-16 38.323 16.1.0 0052 - F TEI16

* Revised in R2-200xxxx (take into account the spelling error), revision is agreed unseen

### 5.3.4 SDAP

## 5.4 Stage 3 control plane 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.

L1 Parameters

* [AT111-e][003][NR15] L1 Parameters (vivo)

Scope: Treat [R2-2007057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007057.zip), [R2-2007058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007058.zip), [R2-2007504](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007504.zip), [R2-2006683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006683.zip), [R2-2006995](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006995.zip), [R2-2006996](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006996.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

R2-200xxxx Summary of offline discussion #003: NR L1 Parameters vivo

DISCUSSION

- [003] INTERMEDIATE Aug 25 Chair understands P1 P2 and P3 are agreeable. On the P4 clarification it seems inconsistent

[R2-2007057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007057.zip) Clarification on the absence of pathlossReferenceRSs Huawei, HiSilicon CR Rel-15 38.331 15.10.0 1773 - F NR\_newRAT-Core

[R2-2007058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007058.zip) Clarification on the absence of pathlossReferenceRSs Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1774 - A NR\_newRAT-Core

* [003] Both Merged, The field description of *pathlossReferenceRSs* needs to be updated: change the condition “When the field is absent” to “If the field is not configured”. This change is merged into Rapporteur’s CR for Rel-15/16 specification.

[R2-2007504](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007504.zip) Correction on aperiodicSRS resource vivo CR Rel-15 38.331 15.10.0 1851 - F NR\_newRAT-Core

[R2-2006683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006683.zip) Correction on aperiodicSRS resource vivo CR Rel-16 38.331 16.1.0 1729 - A NR\_newRAT-Core

* [003] Both Partly merged, The reference clause in the field description of *aperiodicSRS-ResourceTriggerList* needs to be updated: change “6.1.1.2” to “6.1”. This change is merged into Rapporteur’s CR for Rel-15/16 specification.
* [003] RAN2 confirms that if the field *slotOffset* in *SRS-ResourceSet* is absent, only the UE supporting *zeroSlotOffsetAperiodicSRS* applies no offset (value 0). Network configures the *slotOffset* for UEs not supporting *zeroSlotOffsetAperiodicSRS*. No TS change is needed for this.

[R2-2006995](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006995.zip) Correction on the Cross Carrier Scheduling Configuration CATT CR Rel-15 38.331 15.10.0 1763 - F NR\_newRAT-Core

[R2-2006996](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006996.zip) Correction on the Cross Carrier Scheduling Configuration CATT CR Rel-16 38.331 16.1.0 1764 - F NR\_newRAT-Core

L2 Parameters and Security

* [AT111-e][004][NR15] L2 Parameters and Security (CATT)

Scope: Treat [R2-2008038](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008038.zip), [R2-2008039](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008039.zip), [R2-2006891](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006891.zip), [R2-2006892](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006892.zip), [R2-2007348](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007348.zip), [R2-2007349](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007349.zip), [R2-2006993](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006993.zip), [R2-2006994](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006994.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

R2-2008476 Report of ‎[AT111-e][004][NR15] L2 Parameters and Security (CATT)‎ CATT

* [004] noted, Proposals agreed, see below

L2 param

[R2-2008038](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008038.zip) Reconfiguring RoHC and setting the drb-ContinueROHC simultaneously Qualcomm Incorporated CR Rel-15 38.331 15.10.0 1978 - F NR\_newRAT-Core

[R2-2008039](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008039.zip) Reconfiguring RoHC and setting the drb-ContinueROHC simultaneously Qualcomm Incorporated CR Rel-16 38.331 16.1.0 1979 - A NR\_newRAT-Core

* [004] Both agreed

[R2-2006891](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006891.zip) CR to clarify UE behaviour after TAT expiry due to reconfigurationWithSync ZTE Corporation, Sanechips CR Rel-15 38.331 15.10.0 1750 - F NR\_newRAT-Core

[R2-2006892](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006892.zip) CR to clarify UE behaviour after TAT expiry due to reconfigurationWithSync ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1751 - A NR\_newRAT-Core

* [004] Revised, the contents is agreed with the change added NOTE1 shall refer to 38.321. The revisions are agreed unseen

Security

[R2-2007348](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007348.zip) Clarification on NR PDCP COUNT wrap around Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.10.0 1834 - F NR\_newRAT-Core

[R2-2007349](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007349.zip) Clarification on NR PDCP COUNT wrap around Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1835 - A NR\_newRAT-Core

- Aug 25 intermediate: Rapp: The changes proposed in R2-2007348 and R2-2007349 are agreeable. To discuss and decide further whether these changes are merged with Rapporteur’s CR or not.

[R2-2006993](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006993.zip) Correction on Presence Condition of securityConfig CATT CR Rel-15 38.331 15.10.0 1761 - F NR\_newRAT-Core

[R2-2006994](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006994.zip) Correction on Presence Condition of securityConfig CATT CR Rel-16 38.331 16.1.0 1762 - F NR\_newRAT-Core

* [004] both no pursued.

**Misc Configuration**

* [AT111-e][005][NR15] Misc Configuration (ZTE)

Scope: Treat [R2-2008091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008091.zip), [R2-2008092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008092.zip), [R2-2007264](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007264.zip), [R2-2007265](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007265.zip), [R2-2006889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006889.zip), [R2-2006890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006890.zip), [R2-2007121](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007121.zip), [R2-2007122](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007122.zip), [R2-2008086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008086.zip), [R2-2008087](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008087.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

R2-2008423 [AT111-e][005][NR15] Misc Configuration (ZTE) ZTE Corporation

* [005] Noted, proposals agreed, see below

[R2-2008091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008091.zip) Clarification on re-establishment procedure (R15) ZTE corporation, Sanechips CR Rel-15 38.331 15.10.0 1987 - F NR\_newRAT-Core Late

[R2-2008092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008092.zip) Clarification on re-establishment procedure (R16) ZTE corporation, Sanechips CR Rel-16 38.331 16.1.0 1988 - A NR\_newRAT-Core Late

* [005] Both not pursued

[R2-2007264](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007264.zip) Incorrect creation of SCG MAC entity Ericsson CR Rel-15 38.331 15.10.0 1814 - F NR\_newRAT-Core

[R2-2007265](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007265.zip) Incorrect creation of SCG MAC entity Ericsson CR Rel-16 38.331 16.1.0 1815 - A NR\_newRAT-Core

* [005] Both not pursued

[R2-2006889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006889.zip) CR on condition of SyncAndCellAdd ZTE Corporation, Sanechips CR Rel-15 38.331 15.10.0 1748 - F NR\_newRAT-Core

[R2-2006890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006890.zip) CR on condition of SyncAndCellAdd ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1749 - A NR\_newRAT-Core

- [005] Intermediate Aug 25, Rap: Update the wording in CRs (R2-2006889/R2-2006890) as proposed by QC (i.e. use “to the same sPCell” instead).

* [005] Both revised

[R2-2007121](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007121.zip) Clarification on the UE dedicated configuration of rlf-TimersAndConstants Apple CR Rel-15 38.331 15.10.0 1788 - F NR\_newRAT-Core

[R2-2007122](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007122.zip) Clarification on the UE dedicated configuration of rlf-TimersAndConstants Apple CR Rel-16 38.331 16.1.0 1789 - A NR\_newRAT-Core

* [005] Both not pursued

[R2-2008086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008086.zip) Clarification on the SRB configuration for fullConfig during RRC Resume procedure (R15) ZTE corporation, Sanechips CR Rel-15 38.331 15.10.0 1985 - F NR\_newRAT-Core

[R2-2008087](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008087.zip) Clarification on the SRB configuration for fullConfig during RRC Resume procedure (R16) ZTE corporation, Sanechips CR Rel-16 38.331 16.1.0 1986 - F NR\_newRAT-Core

- [005] Intermediate Aug 25, Rap: Update CRs (R2-2008086/R2-2008087) based on the comments from MediaTek.

* [005] Both revised

#### 5.4.1.2 RRM and Measurements and Measurement Coordination

Including late drop

* [AT111-e][006][NR15] Measurments and System Information (ZTE)

Scope: Treat [R2-2006676](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006676.zip), [R2-2006677](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006677.zip), [R2-2008042](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008042.zip), [R2-2007405](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007405.zip)-7410, [R2-2006878](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006878.zip), [R2-2007942](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007942.zip)-7944 (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs, and possibly LS out.

Deadline: Aug 26, 0900 UTC.

R2-200xxxx Offline-006[NR15] Measurements and System Information ZTE

UAC delay tolerant in shared NW

**Proposal 3.1: Go for R16 solution to allow the flexibility for a certain PLMN not to configure the uac-AccessCategory1-SelectionAssistanceInfo field for RAN sharing case. The R16 enhancement for this issue should be optional w/o capability signaling for the UE.**

**Proposal 3.2: Introduce UAC-AccessCategory1-SelectionAssistanceInfo-v16xy with value {a, b, c, notConfigured} which dummifies the existing UAC-AccessCategory1-SelectionAssistanceInfo when configured.**

**Proposal 3.3: The same solution should be applied for Access Category 1 handling for NR and EUTRA connected to 5GC**

[R2-2006676](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006676.zip) Clarification of measCycleSCell in measObjectNR NTT DOCOMO INC. CR Rel-15 38.331 15.10.0 1727 - F NR\_newRAT-Core

[R2-2006677](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006677.zip) Clarification of measCycleSCell in measObjectNR NTT DOCOMO INC. CR Rel-16 38.331 16.1.0 1728 - A NR\_newRAT-Core

- [006] Chair: the consequence if not approved seems to be that an IE is sent sometimes also when not needed. There is not much support to have this change.

* [006] Both Not Pursued

#### 5.4.1.3 System information

Channel BW

Moved from 5.4.1.1

[R2-2008042](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008042.zip) SIB1 to include all supported channel bandwidths by the gNB Qualcomm Incorporated CR Rel-16 38.331 16.1.0 1980 - F NR\_newRAT-Core, TEI16

* [006] Not Pursued

UAC delay tolerant in shared NW

[R2-2007405](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007405.zip) Clarification on network specific uac-AccessCategory1-SelectionAssistanceInfo ZTE corporation, Sanechips, CMCC discussion Rel-15 NR\_newRAT-Core

Moved from 5.4.1.5

[R2-2006878](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006878.zip) Network-specific access barring for delay tolerant service Lenovo, Motorola Mobility discussion Rel-15 NR\_newRAT-Core

Moved from 6.1.1

[R2-2007942](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007942.zip) ASN.1 issue on uac-AccessCategory1-SelectionAssistanceInfo vivo discussion

[R2-2007406](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007406.zip) draft CR on network specific uac-AccessCategory1-SelectionAssistanceInfo in TS38.331-R15 solution ZTE corporation, Sanechips, CMCC draftCR Rel-15 38.331 15.10.0 NR\_newRAT-Core

[R2-2007407](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007407.zip) draft CR on network specific uac-AccessCategory1-SelectionAssistanceInfo in TS36.331-R15 solution ZTE corporation, Sanechips, CMCC draftCR Rel-15 36.331 15.10.0 LTE\_5GCN\_connect-Core

[R2-2007408](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007408.zip) draft CR on network specific uac-AccessCategory1-SelectionAssistanceInfo in TS38.331-R16 solution ZTE corporation, Sanechips, CMCC, Nokia draftCR Rel-16 38.331 16.1.0 NR\_newRAT-Core

[R2-2007409](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007409.zip) draft CR on network specific uac-AccessCategory1-SelectionAssistanceInfo in TS36.331-R16 solution ZTE corporation, Sanechips, CMCC, Nokia draftCR Rel-16 36.331 16.1.1 LTE\_5GCN\_connect-Core

[R2-2007410](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007410.zip) [Draft] LS on UAC Access Category 1 selection ZTE corporation, Sanechips LS out Rel-15 NR\_newRAT-Core To:CT1 Cc:SA2

2 Moved from 6.1.1

[R2-2007943](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007943.zip) 38.331 CR for uac-AccessCategory1-SelectionAssistanceInfo vivo CR Rel-16 38.331

[R2-2007944](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007944.zip) 36.331 CR for eab-Param vivo CR Rel-16 36.331 16.1.1 4417 - F LTE\_5GCN\_connect-Core

16.1.0 1947 - F NR\_newRAT-Core

ON-Line discussion Aug 25

- Lenovo are ok with 3.1 but not 3.2. R15 solution is not broken.

- Chairs understanding is that R15 is broken, i.e. barring cannot be independently configured for each PLMN in a shared network scenario. ZTE agrees, and think this configuration should be a per-PLMN solution. Nokia also agrees. It doesn’t work for network sharing scenarios. Chair is not sure this is urgent.

- Ericsson agrees that this not urgent, and think that the case in focus now is not the only weakness with EAB, e.g. currently in procedure text information is indicated to higher layers, which is not expected by higher layers.

- LG does not object have some solution, but think the problem can be softened by network implementation.

- QC think it works but different networks of network sharing is forced to use the same configuration. Nokia agrees that this involves that if one operator has a configuration for AC1, other operators also must have it (i.e. cannot choose to not bar). Huawei think this is not the case, the barring configuration can be set so that in reality it corresponds to no barring.

- Ericsson wonders that if we have a rel-16 solution, what happens to Rel-15. Current solution on the table is that a cell either broadcast R15 or R16 information. This cannot work for R15 UEs. Chair think that such solution can work if there is no R15 UEs that has deployed the feature (which may be the case).

- ZTE think we can have an email discussion.

* Postponed

#### 5.4.1.4 Inter-Node RRC messages

* [AT111-e][007][NR15] Inter Node and NR Misc (Ericsson)

Scope: Treat [R2-2006884](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006884.zip), [R2-2006885](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006885.zip), [R2-2007674](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007674.zip), [R2-2007675](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007675.zip), [R2-2007643](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007643.zip), [R2-2007644](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007644.zip), [R2-2006999](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006999.zip), [R2-2007000](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007000.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

[R2-2008412](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008412.zip) Summary of [AT111-e][007][NR15] Inter Node and NR Misc (Ericsson) Ericsson

* [007] Noted

[R2-2006884](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006884.zip) Clarification on CG-ConfigInfo for NR-DC and NE-DC Google Inc. CR Rel-15 38.331 15.10.0 1745 - F NR\_newRAT-Core

[R2-2006885](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006885.zip) Clarification on CG-ConfigInfo for NR-DC and NE-DC Google Inc. CR Rel-16 38.331 16.1.0 1746 - A NR\_newRAT-Core

* [007] Intermediate conclusion: Intention is agreed. Final CRs (revisions or merge) treated in [103].

[R2-2007674](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007674.zip) Clarification on scg-RB-Config Huawei, HiSilicon CR Rel-15 38.331 15.10.0 1877 - F NR\_newRAT-Core

[R2-2007675](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007675.zip) Clarification on scg-RB-Config Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1878 - A NR\_newRAT-Core

* [007] Both Agreed

#### 5.4.1.5 Other

**NR Misc Corrections**

[R2-2007643](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007643.zip) Miscellaneous non-controversial corrections Set VII Ericsson CR Rel-15 38.331 15.10.0 1871 - F NR\_newRAT-Core

[R2-2007644](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007644.zip) Miscellaneous non-controversial corrections Set VII Ericsson CR Rel-16 38.331 16.1.0 1872 - A NR\_newRAT-Core, TEI16

- [007] Intermediate Aug25: Revision is expected, Rapp: The CRs in R2-2007643 and R2-2007644 are considered as baseline to include further misc corrections.

[R2-2006999](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006999.zip) Corrections Based on the Rule of Field and IE Usage CATT CR Rel-15 38.331 15.10.0 1765 - F NR\_newRAT-Core

[R2-2007000](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007000.zip) Corrections Based on the Rule of Field and IE Usage CATT CR Rel-16 38.331 16.1.0 1766 - F NR\_newRAT-Core

* [007] Merged (Partly) with Rapporteur CRs (see email discussion outcome)

UE assistance information

* [AT111-e][008][NR15] NR UAI (Huawei)

Scope: Treat [R2-2007792](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007792.zip), [R2-2007793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007793.zip), [R2-2007794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007794.zip), [R2-2007795](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007795.zip), [R2-2006986](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006986.zip), [R2-2006987](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006987.zip), [R2-2006997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006997.zip), [R2-2006998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006998.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

R2-200xxxx Summary of offline 008 – NR UAI Huawei

[R2-2007792](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007792.zip) Correction on condition of stopping overheating prohibit timer Huawei, HiSilicon CR Rel-15 38.331 15.10.0 1905 - F NR\_newRAT-Core

[R2-2007793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007793.zip) Correction on condition of stopping overheating prohibit timer Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1906 - A NR\_newRAT-Core

* [008] Both Agreed

[R2-2007794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007794.zip) Correction on UE assistance information transmission for handover case Huawei, HiSilicon CR Rel-15 38.331 15.10.0 1907 - F NR\_newRAT-Core

[R2-2007795](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007795.zip) Correction on UE assistance information transmission for handover case Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1908 - A NR\_newRAT-Core

- [008] Intermediate Aug 25: Chair: It seems at least some change can be agreed, so I assume we will have CRs.

* [008] Both revised

Moved from 5.4.1.1

[R2-2006986](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006986.zip) Further correction on UEAssistanceInformation upon reconfiguration with sync CATT CR Rel-15 38.331 15.10.0 1759 - F NR\_newRAT-Core

[R2-2006987](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006987.zip) Further correction on UEAssistanceInformation upon reconfiguration with sync CATT CR Rel-16 38.331 16.1.0 1760 - F NR\_newRAT-Core

* [008] both not agreed

### 5.4.2 LTE changes related to NR

LTE Other

* [AT111-e][042][NR15] LTE Other (Nokia)

Scope: Treat [R2-2006997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006997.zip), [R2-2006998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006998.zip), R2-2007350, R2-2007351, (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

[R2-2008408](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008408.zip) Summary of [AT111-e][042][NR15] LTE Other (Nokia) Nokia

* [042] Noted, proposals are agreed, see below

[R2-2006997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006997.zip) Correction on the Presence Condition for drb-ToAddModList CATT CR Rel-15 36.331 15.10.0 4363 - F NR\_newRAT-Core

[R2-2006998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006998.zip) Correction on the Presence Condition for drb-ToAddModList CATT CR Rel-16 36.331 16.1.1 4364 - F NR\_newRAT-Core

- [042] Intermedite Aug 25: Chair: It seems some change is agreeable

* [042] Both revised

Moved from 5.4.2

[R2-2007350](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007350.zip) Clarification about UL 256QAM Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.10.0 4382 - F NR\_newRAT-Core

[R2-2007351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007351.zip) Clarification about UL 256QAM Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.1.0 4383 - A NR\_newRAT-Core

[042] Intermedite Aug 25: Chair: It seems some change is agreeable

* [042] Both revised

LTE SIB Extension

Online first – then email

* [AT111-e][009][NR15] LTE SIB extension issue (NTT DOCOMO)

Scope: Treat [R2-2008083](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008083.zip), [R2-2008367](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007426.zip), R2-2008107 (proponents to drive)

Part 1: Start after on-line initial discussion, Confirm severity/consequences of the issue, Try to find acceptable solutions, put solutions on the table, gather initial round of comments to understand which could be acceptable.

Deadline: Aug 20, 0900 UTC.

Part 2: Technically endorsed CRs

Deadline: EOM

R2-2008427 Report of email discussion [AT111-e][009][NR15] LTE SIB extension issue NTT Docomo

DISCUSSION Aug 25

- NTT Docomo think the same issue is present for all SIBs after “…”

- IT is clarified that CMCC has at lest 5M UEs that canont be SW upgraded and that has this issue

- CMCC think P1 is reasonable. Most problematic UEs are IoT UEs, and they have a life time of around 10 years.

- MTK think still this is due to wrong UE impl, but are wonder if we really need to fix this for the other SIBs. MTK understand Options 2 and 3 can work. MTK are NOT ready to accept standards change at this meeting and think it is unfair to penalize UEs with correct implementation.

- QC agrees this is due to wrong UE implementation and UEs should be fixed.

- VDF cannot accept to alter the operation of the network, i.e. it must be possible to have full flexibility for the network, i.e. no restriction of SIB tramissions etc.

- TMO US think some problamtic UEs are old, think we could either a) deny service for the problemaic UEs that cannot be upgraded, or b) have a std solution, unless there is the luxury to be able to serve problematic UEs on separate freq, but that is not common.

- Softbank think O2 O3 are not sufficient. O2 only work for SIB24 and for O3 it is not acceptable from service privisioning point of view. Need a std solution. Telecom Italia support Softbank, and think SIB26a is also needed. KDDI agree with SB and Telecom italia and KDDI has lots of problematic UEs. Also to KDDI the workaround O3 is not acceptable, Turkcell agrees, O3 is not acceptable, and think there is no way to firce the suncrber to upgrade the phones, and think further that VDF are correct that network cannot have restrictions. BT agrees with Softbank, and think we need a standards solution.

- AT&T are still assessing the magnitude of the situation, if it is big AT&T think UEs cannot be replaced and not easy updgraded either. Verizon are also still assessing the issue.

- Docomo have some understanding for vendors perspective, which the correct implementation and think RP should decide.

- Apple agrees w MTK and QC, and think there is no clear understanding on how severe this issue is, and think is it also very early to tech endorse CRs, and also not sure about other SIBs than SIB24, not ready to go woth a solution with Standards Impact.

- Samsung are willing to help resolve this, but think that then Rel-15 UEs (that support NR SA) need to be upgraded over the air. Samsung think that at RP the severity need to be discussed. Chair wonder if such UEs can use workaround O2 (redirection)

- Nokia think a STD solution is very problematic. Ericsson agrees and think we need to know better how serious this issue is, and think that the possibility of workarounds need to be discussed at RP

- Oppo agrees with MTK and other vendors, think it is too early. Oppo think that for Tech Endorsed CRs we should choose in R2 to use either SIB1 or SIB3.

- Huawei think tech endorsed CRs is premature. Think RP shall decide first.

- LG think we should not penalize correct UEs.

- Lenovo wonder if this is a precedent for the future. Chair think not.

- BT think also for next RP may be too short time.

- QC think we need R12 CRs for this, if we go with a STD solution.

- CMCC support to have endorsed CRs for RP.

- Docomo think we need to decide ASAP, most operators have not yet launched NR stand-alone.

DISC FOR the CRs Aug 25

- QC think only SIB1 extension should be considered.

- MTK think we can consider both SIB1 and SIB3. We should not have a solution from Rel-12.

- Docomo think that the order of the SIBs in the scheduling info list can be used for a UE to determine where SIBs are transmitted. IF this is in SIB3 it is complex for the UE to acquire the SIBs.

- Chair think we can discuss by email from which release we would make correction, obviously none of the SIBs have been deployed until now.

- CMCC think that SIB1 is better, but think it is safer to put scheduling info in another SIB than SIB1.

- VDF think we should have the CRs from Rel-12, to be clear and clean.

- VDF think that if there indeed are issues it is urgent. But are not sure about the magnitude of the problem.

- Nokia wonder if the old information need to be dummified. What about other cases with … extensions. Do they also need to be fixed. Chair think there are … extensions that has also worked well (in SIBs).

- LG would prefer to extend SIB1.

- Huawei hesitate to have CRs from Rel-12. Think that Rel-12 UEs need to be upgraded.

- Docomo think that if someone want to use SIB19 etc then old UEs need to be upgraded, but think only NR SA deployment is interesting.

- QC think we shall stay “clean” and fix from Rel-12. QC think SIB1 is better.

- Chair: Think SIB1 is the opinion of most companies.

- Lenovo wonder if the soluton proposed works. Docomo think that the proposed kind of non-critical extension works well as there are other examples.

- Ericsson think that we need to be clear on the coverpage in indicating consequences. This is a non-backwards compatible solution in principle.

* RP need to decide (R2 cannot achieve consensus)
* R2 prepare tech endorsed CRs for a standardized solution

For the CRs to be tech endorsed

* RAN2 to address the SIB scheduling issue, from SIB19 and onwards (defined after the extension marker).
* Introduce an additional scheduling information for SIB19 and onwards in SIB1 (i.e. Solution 1), only in SIB3 if problems are found with SIB1.
* Assume the correction is from R12 (when the first problematic SIB was introduced).

Moved from 6.16

[R2-2007426](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007426.zip) Discussion on SIB24 issue CMCC discussion Rel-16 TEI16

* revised

[R2-2008367](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008367.zip) Discussion on SIB24 issue CMCC discussion Rel-16 TEI16

[R2-2008083](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008083.zip) Problem on SI scheduling via an extended field NTT DOCOMO, INC. discussion Rel-15 36.331 NR\_newRAT-Core Late

[R2-2008107](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008107.zip) Workaround for LTE SIB24 issue0 MediaTek discussion Late

* 3 docs noted

DISCUSSION Aug 17

- Docomo think this is urgent, so we need a solution ASAP, it is in fact too late already.

- CMCC think > 5M UEs have this issue, so this it important and urgent.

- TMO US also think this is urgent and have UEs in the field that are afflicted, but think we need to be careful, this is not easy.

- Nokia think solutions are varying, and think the TS is ok, and the impact to current UEs are not trivial. We should be careful.

- Samsung think we cannot avoid TS change, and think we need to do this this week. Samsung think that if SIB24 is sent in same SI message as older SIB there are also issues, and we should address this.

- Chair wonder if this affects also the other SIBs indicated after “…”. Docomo think maybe, and we might need to check.

- LG think we need to find a solution with minimum impact, and would prefer minimum impact to standards.

- QC agree with all opinions, an think this indeed may be complex.

- Chair’s understanding is that both workarounds and final solutions are interesting, and that we should attempt to have a solution at this meeting, we can assess the maturity towards the end of the meeting.

- Lenovo think R5 have a new test case to avoid this kind of issues. Docomo think UEs in reality cannot be upgraded so this doesn’t resolve the current issue. CMCC explains that many UEs cannot be upgraded. KDDI agrees.

- TMO has tried workarounds and think they don’t work.

- Ericsson would like to understand how many problem UEs can be upgraded.

- Apple also think we need to be careful, and there are significant drawbacks for correctly implemented UEs.

- DT and Ericsson would like to understand how serious this issue is, and DT are not ok to remove any flexiblility. DT think this is a wrong implementation, and are surprised that we are doing this.

- LG Uplus has this issue and point out that problematic UEs are on all frequencies.

- Intel also think we should be careful, especially since we have non-upgradable UEs.

* Continue by email, solutions with and without TS impact may be discussed. It is also interesting to understand better the magnitude of the problem.
* We can attempt to have a solution at this meeting, need to put solutions on the table and understand the impacts, we can assess the maturity towards the end of the meeting.

### 5.4.3 UE capabilities and Capability Coordination

Including Late Drop.

Clarifications

* [AT111-e][010][NR15] UE cap Clarifications (Huawei)

Scope: Treat [R2-2007209](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007209.zip), [R2-2007210](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007210.zip), [R2-2007211](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007211.zip), [R2-2007798](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007798.zip), [R2-2007799](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007799.zip), [R2-2007800](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007800.zip), [R2-2007796](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007796.zip), [R2-2007797](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007797.zip), [R2-2007885](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007885.zip), [R2-2007887](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007887.zip), [R2-2007850](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007850.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

[R2-2008428](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008428.zip) Summary of offline 010 Rel-15 UE cap Clarifications Huawei, HiSilicon

* [010] Noted, agreements are reflected below

[R2-2007209](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007209.zip) Clarification on the BandCombination ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

* [010] Noted
* [010] R2 confirms that the supportedBandListNR should contain all bands that the UE supports, while the supportedBandCombinationList may not contain all supported bands. (already reflected in TS no change needed).

[R2-2007210](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007210.zip) CR on the BandCombination (R15) ZTE Corporation, Sanechips CR Rel-15 38.331 15.10.0 1799 - F NR\_newRAT-Core

[R2-2007211](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007211.zip) CR on the BandCombination (R16) ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1800 - A NR\_newRAT-Core

- [010] Intermediate: Chair: Changes to reflect intentions of P1 and P2 in the disc doc seems agreeable, but details need further modification.

- [010] Intermediate: Rap: It is agreeable that the BandCombinationList and the FreqBandList also include the NR non-CA band combination, and the definition of “non-CA” should be clarified and reflected correctly

* [010] Both revised

[R2-2007798](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007798.zip) Discussion on the ambiguity for the capabilities associated with multiple bands/Cells Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

[R2-2007799](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007799.zip) Corrections on the capabilities associated with multiple bands/Cells Huawei, HiSilicon CR Rel-15 38.306 15.10.0 0388 - F NR\_newRAT-Core

[R2-2007800](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007800.zip) Corrections on the capabilities associated with multiple bands/Cells Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0389 - A NR\_newRAT-Core

=> all three revised before treatment

R2-2008368 Discussion on the ambiguity for the capabilities associated with multiple bands/Cells Huawei, HiSilicon

* [010] Noted
* [010] the UE needs to indicate capabilities (*simultaneousTxSUL-NonSUL, dynamicSwitchSUL*) for both SUL band and the paired NUL band, and the network only enables this configuration for the bands pair where these capabilities are indicated for both SUL and NUL band.
* [010] confirm that the network could only configure PUCCH on the bands where *twoPUCCH-Group* is indicated if two PUCCH groups are configured.
* [010] for interpretation of FGs applicable to cross-carrier operation, RAN2 waits for RAN1 conclusion.

R2-2008369 Corrections on the capabilities associated with multiple bands/Cells Huawei, HiSilicon

R2-2008370 Corrections on the capabilities associated with multiple bands/Cells Huawei, HiSilicon

* [010] Both revised, impl the agreements above.

[R2-2007796](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007796.zip) Clarification on PDSCH rate-matching capabilities Huawei, HiSilicon CR Rel-15 38.306 15.10.0 0386 - F NR\_newRAT-Core

[R2-2007797](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007797.zip) Clarification on PDSCH rate-matching capabilities Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0387 - A NR\_newRAT-Core

- [010] Rap: almost all companies seem to agree with the intention of the CRs, and some companies raised some suggestions to the detailed changes in the CR. It is proposed to pursue the CR and update is needed to address the comments accordingly.

* [010] Both revised

[R2-2007885](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007885.zip) Clarification on the simultaneousRxTxInterBandCA capability in NR-DC MediaTek Inc. CR Rel-15 38.306 15.10.0 0395 - F NR\_newRAT-Core

[R2-2007887](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007887.zip) Clarification on the simultaneousRxTxInterBandCA capability in NR-DC MediaTek Inc. CR Rel-16 38.306 16.1.0 0396 - A NR\_newRAT-Core

- [010] Rap:In the discussion majority of companies prefers to check with RAN4 first before making the change, and several companies seem to have different understanding on how to interpret the current simultaneousRxTxInterBandCA capability. It is therefore proposed to send an LS to confirm the requirement, and the CRs are postponed to next meeting as companies might need more time to think about the interpretation.

* [010] Both Postponed
* [010] Send an LS to RAN4 to confirm the requirement on simultaneousRxTxInterBandCA support for NR-DC case (treat LS in [010])

[R2-2007850](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007850.zip) xDD and FRx differentiation on UE capabilities which are not signalled by ENUMERATED {supported} Samsung discussion Rel-15 NR\_newRAT-Core

- [010] Rap: There is no support on the proposal and companies think there were no such cases existing. Thus the proposal seems not be to pursued

* [010] Noted, not agreed

Additions

* [AT111-e][011][NR15] UE cap Additions (vivo)

Scope: Treat [R2-2007303](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007303.zip), [R2-2007304](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007304.zip), [R2-2007305](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007305.zip), [R2-2007306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007306.zip), [R2-2007212](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007212.zip), [R2-2007213](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007213.zip), (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

R2-200xxxx Report of ‎[AT111-e][011][NR15] UE cap Additions (vivo) vivo

Missing Constraints

[R2-2007303](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007303.zip) Corrections on UE capability constraints vivo CR Rel-15 36.331 15.10.0 4377 - F NR\_newRAT-Core

[R2-2007305](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007305.zip) Corrections on UE capability constraints vivo CR Rel-16 36.331 16.1.1 4378 - A NR\_newRAT-Core

* [011] Not Pursued

[R2-2007304](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007304.zip) Corrections on UE capability constraints vivo CR Rel-15 38.306 15.10.0 0377 - F NR\_newRAT-Core

[R2-2007306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007306.zip) Corrections on UE capability constraints vivo CR Rel-16 38.306 16.1.0 0378 - A NR\_newRAT-Core

- [011] Intermendate, RAP: The CRs in R2-2007304 and R2-2007306 are considered as baseline to update the cover page issues and the additional editorial corrections.

* [011] both revised

Support for Odd Bandwidths

[R2-2007212](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007212.zip) CR on support of 35MHz and 45MHz channel bandwidth (R15) ZTE Corporation, Sanechips CR Rel-15 38.306 15.10.0 0374 - F NR\_newRAT-Core

[R2-2007213](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007213.zip) CR on support of 35MHz and 45MHz channel bandwidth (R16) ZTE Corporation, Sanechips CR Rel-16 38.306 16.1.0 0375 - A NR\_newRAT-Core

- [011] Rap: All companies agree that now it’s too early to deal with the signalling support on 35MHz and 45MHz channel bandwidth, as RAN4 has not started the work yet. The consensus is to wait for the RAN4 feedback before RAN2 makes any decision on these CRs. So the rapporteur suggests postponing the discussion on the CRs R2-2007212/2007213.

* [011] Both postponed, until RAN2 receives LS from RAN4.

Further Enhancements

[R2-2007084](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007084.zip) Clarification on CGI reporting in EN-DC and NE-DC Apple discussion Rel-15 NR\_newRAT-Core

DISCUSSION on-line

- QC think the current status is a result of conscious decisions. There is no change required. Ericsson agrees, and think introducing a new capability will just cause issues.

- Huawei think for EN-DC the change is nbc.

- Apple think we can now take into account R4 outcomes.

- Apple think tht from test point of view it is preferable to test aligned / non-aliged DRX separately and we should have different capabilities.

- MTK have some sympathy, e.g. for the requirement to have separate testing, and think an additional capability could be considered for R16.

- LG have some sympaty but think there is nothing broken and this is R15 and don’t support.

- Chair: not much support

* Not agreed

### 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)

* [AT111-e][012][NR15] Idle mode (QC)

Scope: Treat [R2-2007064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007064.zip), [R2-2007097](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007097.zip), [R2-2007119](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007119.zip), [R2-2007120](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007120.zip), [R2-2008040](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008040.zip), [R2-2008041](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008041.zip) (proponents to drive), Treat R2-2007963 (AI 6.1.3), include other corrections to be merged with rapporteur CR (if any)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

DISCUSSION

- QC would like to combine email discussions [012] and [025].

* [025] is canceled, and contents is added to this one [012]

R2-200xxxx Report of [AT111-e][012][NR15] Idle mode Qualcomm inc.

Rel-16

Moved here from 6.1.3

[R2-2007963](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007963.zip) Miscellaneous corrections (Rapporteur) Qualcomm Incorporated CR Rel-16 38.304 16.1.0 0184 - D TEI16

* [012] revised
* [012] Contents is agreed with the following changes: correct typo in WI code (remove dash), remove reference to 22.261.

[R2-2007064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007064.zip) Corrections to 36.304 Nokia, Nokia Shanghai Bell CR Rel-16 36.304 16.1.0 0805 - F NR\_IAB\_enh-Core, NB\_IOTenh3-Core, NR\_UE\_pow\_sav-Core

* [012] revised
* [012] The first four changes is agreed. WI code TEI16 should be added on the cover page. The fifth change on GWUS can be re-visited if not covered by the outcome of the email discussion 305.

[R2-2007097](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007097.zip) Correction on suitable cell definition Apple CR Rel-16 38.304 16.1.0 0179 - D NR\_newRAT-Core

* [012] Merged w rapporteur CR
* [012] Add the following changes in R2-2007097 to the 38.304 rapporteur CR: In the definition of “suitable cell”, add “for Roaming” to the list of “Forbidden Tracking Areas”. Registration area” changes to “tracking area” in the description of exception case in clause 4.5
* [012] Introduce the following change in 36.304 rapporteur CR: “Registration area” changes to “tracking area” in the description of exception case in clause 4.5

Rel-15

[R2-2007119](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007119.zip) Srxlev Calculation for IRAT Cell Reselection Apple, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, ZTE Corporation, Sanechips, CATT CR Rel-15 36.304 15.6.0 0806 - F NR\_newRAT-Core

[R2-2007120](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007120.zip) Srxlev Calculation for IRAT Cell Reselection Apple, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, ZTE Corporation, Sanechips, CATT CR Rel-16 36.304 16.1.0 0807 - A NR\_newRAT-Core

- [012] Intermediate,Rap: Agreeable with the following changes, Add the additional text suggested by Huawei, Remove NE-DC and NR-DC from impacted architectures, Change “clarification” to “correction” in the CR title, Correct typo (missing space before bracket) in reference to 38.331, Correct typo in WI code (use “newRAT”)

- [012] Intermediate, Chair: For information, how is this supposed to work? When are these offsets applied?

* [012] both revised

2 Moved From 4.5

[R2-2008040](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008040.zip) Correction for Qrxlevmin description in SIB24 Qualcomm Incorporated CR Rel-15 36.331 15.10.0 4420 - F LTE\_eMob-Core

[R2-2008041](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008041.zip) Correction for Qrxlevmin description in SIB24 Qualcomm Incorporated CR Rel-16 36.331 16.1.1 4421 - A LTE\_eMob-Core

- [012] Intermediate, Rap: Contents is Agreeable with the following changes: Use the text “Actual value Qrxlevmin = field value \* 2 [dBm].” for *q-RxLevMin* and similar for *q-RxLevMinSUL,* Change the reference from 36.304 to 38.304, Change WI code to “NR\_newRAT-Core”.

* [012] Both Revised

## 5.5 Positioning corrections

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.

R2-2006665 Correction on 38.305 in Table 4.3-1Supported versions of UE positioning methods CATT CR Rel-15 38.305 15.6.0 0026 - F NR\_newRAT-Core

R2-2006666 Correction on 38.305 in Table 4.3-1Supported versions of UE positioning methods CATT CR Rel-16 38.305 16.1.0 0027 - A NR\_newRAT-Core

R2-2006667 Correction on 36.305 in Table 4.3-1Supported versions of UE positioning methods CATT CR Rel-15 36.305 15.5.0 0089 - F NR\_newRAT-Core

R2-2006668 Correction on 36.305 in Table 4.3-1Supported versions of UE positioning methods CATT CR Rel-16 36.305 16.1.0 0090 - A NR\_newRAT-Core

# 6 Rel-16 NR Work Items

Essential corrections. While high maintenance intensity is expected, Rel-16 corrections are treated separately per WI.

## 6.1 Rel-16 General

### 6.1.1 Cross WI RRC corrections

Early item

[R2-2008108](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008108.zip) Guidelines for RRC changes at RAN2#111e Ericsson discussion TEI16 Late

- Chair think that NBC changes can be accepted but we should be somewhat restrictive and we should do such change it is resolves a problem. Qc agrees this should be done only when needed – no nice to have. Huawei agrees. ZTE as well.

- Samsung think NBC changes shall be indicated, e.g. cover sheet. Chair: have asked session chairs to track and report. Nokia think we can indicate on the cover sheet. QC think the NBC is just ASN.1 NBC. Ericsson agrees. Intel brings fresh examples from UE caps work. Ericsson think we need to keep it simple.

- LG wonder if this applies also to non-RRC CRs. Chair think we might have some cases of MAC CE changes.

* R2 assumes that for Rel-16 at R2 111-e NBC changes for NR and LTE can be accepted if there is consensus.

General RRC

* [AT111-e][013][NR16] RRC Misc I (Ericsson)

Scope: Treat [R2-2007641](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007641.zip), [R2-2007642](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007097.zip), [R2-2007020](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007119.zip), R2-2006915 R2-2008109 (proponents to drive), include other corrections to be merged with R16 RRC rapporteur CR (if any)

Part 1: Decision whether to make corrections, identify agreeable parts.

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

[R2-2008413](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008413.zip) Summary of [AT111-e][013][NR16] RRC Misc I Ericsson

DISCUSSION W1:

- Ericsson suggest to discuss extension for ToAddMod list by email to necxt meeting. Intel agrees and this is not critical

- Ericsson think 8109 overlaps with another doc, Chair suggest rapporteur to fix this

- Chair: Make rest of decisions by email.

* Noted

[R2-2008426](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008426.zip) Summary of [AT111-e][013][NR16] RRC Misc I Ericsson

* [013] Noted, agreements reflected below.

[R2-2007641](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007641.zip) ASN.1 corrections to maintain backwards compatibility Ericsson, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1869 - F TEI16

* [013] agreed

[R2-2008109](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008109.zip) Correction on DLInformationTransferMRDC and RRCReconfigurationComplete Samsung CR Rel-16 38.331 16.1.0 1989 - F LTE\_NR\_DC\_CA\_enh-Core Late

- [013] Intermediate Rapporteur input: According to the companies input, it looks like there is a good consensus on not having the first change but having, instead, the second one. For the third change, this is not nothing essential and it may not be critical to have. However, it is difficult to formulate a clear proposal for this CR and thus we suggest to further discuss it online.

- [013] Chair: Discussion is fluctuating but there is a Draft revision, which is quite different to the orinigal CR with a new Title: Correction on field descrption of mrdc-SecondaryCellGroup in NR-DC. Maybe a new round of comments are needed,

[R2-2007642](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007642.zip) Remaining ASN.1 review issues Ericsson CR Rel-16 38.331 16.1.0 1870 - F NR\_eMIMO-Core, TEI16

- [013] Intermediate Rapporteur input: According to the replies, it seems that the intention of the CR can be agreed, but a further revision may be needed to ensure that the change it captures correctly the RAN1 understanding. Therefore, we can agree with the intention and work of the exact change during the second week.

- [013] Chair: Will have this CR, convergence on detailed updates by email.

* [013] Revised (details by email)

R2-200xxxx Remaining ASN.1 review issues Ericsson CR Rel-16 38.331 16.1.0 1870 - F NR\_eMIMO-Core, TEI16

[R2-2007020](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007020.zip) Clarification on the presence of the field *si-RequestConfigSUL* Fujitsu CR Rel-16 38.331 16.1.0 1772 - F NR\_newRAT-Core

- [013] Rapporteur Intermediate input: According to the replies, companies seems to agree to have this editorial change and to include it in the Rapporteur’s CR (also for Rel-15).

- [013] Chairman: This seems to be a clarification, to avoid potential misunderstanding. It is not clear whether such misunderstanding would be likely. If agreed, this is a R15 change. It seems there is support but there is also some reluctance. Some companies don’t want to do this unless a wider consistency check has been done. In general, there is some support, so we can check next meeting.

* [013] Postponed

[R2-2006915](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006915.zip) Extension scenarios for ToAddMod lists MediaTek Inc. discussion Rel-16 NR\_newRAT-Core

- [013] Rapporteur input: According to the replies, it looks like that the intention of the contribution can be agreed, but more time may be needed to come up with a CR for implementing all the proposals. Therefore, given that this is not critical to agree in this meeting, details can be worked out in an email discussion to the next meeting.

* [013] Principles in this document are agreed
* Discussed by email to next meeting.
* [Post111-e][NR16] Extension scenarios for ToAddMod lists ()

Scope:

Intended outcome:

Deadline:

On demand SI

* [AT111-e][014][NR16] RRC Misc II (Ericsson)

Scope: Treat R2-2007275, R2-2007276, [R2-2007077](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007119.zip), R2-2006915, R2-2006934 (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts.

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

[R2-2008414](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008414.zip) Summary of [AT111-e][014][NR16] RRC Misc II Ericsson

- Intermediate summary.

* [014] Noted, agreements captured below

[R2-2007275](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007275.zip) Miscellaneous correction regarding on demand SIB in CONNECTED Ericsson CR Rel-16 38.331 16.1.0 1820 - F 5G\_V2X\_NRSL-Core, NR\_pos-Core

- [014] Rapporteur input: According to thereplies, it looks okay (in principle) to have this CR, but a revision is needed to take into account the input received in this email discussion.

* [014] Revised, the CR is considered as baseline for misc corrections and a revision is provided to address further inputs from companies.

[R2-2008483](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008483.zip) Miscellaneous correction regarding on demand SIB in CONNECTED Ericsson CR Rel-16 38.331 16.1.0 1820 - F 5G\_V2X\_NRSL-Core, NR\_pos-Core

[R2-2007276](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007276.zip) Redundant procedural text of on demand SIB in CONNECTED Ericsson CR Rel-16 38.331 16.1.0 1821 - F 5G\_V2X\_NRSL-Core, NR\_pos-Core

- [014] Rapporteur input: According to the replies from companies, it looks like something is needed to address the issue of the redundant text in the specification. The actual changes in the CR can be discussed during the second week.

- [014] CHAIR: It seems the current TS is not broken, but it also seems there is interest to do some change to reduce the overhead in procedure text. Assume something can be agreed along these lines in the end.

* [014] revised

R2-2008484 Redundant procedural text of on demand SIB in CONNECTED Ericsson CR Rel-16 38.331 16.1.0 1821 - F 5G\_V2X\_NRSL-Core, NR\_pos-Core

Move from 6.1.3

[R2-2007077](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007077.zip) Corrections to on demand SI acquisition in RRC\_CONNECTED Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1780 - F 5G\_V2X\_NRSL-Core, NR\_pos-Core

- [014] Rapporteur input:According to the replies, the intention of the CR can be agreed but whether to have the proposed change it depends from the outcome of R2-2007276.

2 docs Moved here from Pos:

[R2-2007076](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202008%20-%20RAN2_111-e,%20Online\Extracts\R2-2007076_CR1779_38331_Rel16_Corrections%20to%20acquisition%20of%20posSIB(s)%20in%20RRC_CONNECTED.docx) Corrections to acquisition of posSIB(s) in RRC\_CONNECTED Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1779 - F NR\_pos-Core

- [014] Rapporteur input: According to the replies, the intention of the CR is agreed but whether to have the proposed change it depends from the outcome of R2-2007276.

[R2-2006755](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202008%20-%20RAN2_111-e,%20Online\Extracts\38331_CR1736_(Rel-16)_R2-2006755.docx) Correction on on-demand SI in RRC\_CONNECTED CATT CR Rel-16 38.331 16.1.0 1736 - F NR\_pos-Core

- [014] Rapporteur input: According to the replies, companies are fine to agree on the last change for removing the duplicate stop of T350, but the other change seems to not have much support.

* [014] Merged. The duplicate stop of T350 is agreed and is included in revision of the misc correction CR in R2-2007275.

DCCA and Mobility

[R2-2006934](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006934.zip) Handling of CPC in fast MCG recovery Intel Corporation CR Rel-16 38.331 16.1.0 1755 - F NR\_Mob\_enh-Core, LTE\_NR\_DC\_CA\_enh-Core

- [013] Rapporteur input: According to the replies, it seems that there is good support for the changes proposed in the CR. Therefore, we suggest:

* [014] revised. The intention of the CR in R2-2006934 is agree and a revision is provided to take into account companies’ inputs.

### 6.1.2 Feature Lists and UE capabilities

Includes UE capability updates related to R1 and R4 feature lists. Including outcome of email discussion [Post110-e][082][NR16] UE Capabilities (Intel, NTT Docomo). V2X capabilities are handled separately under the V2X WI. Minimum capabilites for IAB is handled separately under the IAB WI.

* [AT111-e][015][NR16] UE cap Main (Intel, NTT Docomo)

Scope: Treat assigned tdocs, merge endorsed output from other R16 UE caps (306 331) email discussions, take into account updated feature lists from R1 and R4. Produce final mega CRs 38306 38331.

W1 Agree/Endorse 331 306 changes based on assigned tdocs.

Deadline for comments (for the simepl assigned parts, assigned tdcos) Aug 20, 1000 UTC.

Resolution of Complex matters, E.g. RILs from the endorsed CR (from the email discussion before the meting) can continue until the end.

W2 Review of updated R1 R4 feature lists. Agree on updates to 306 331 capturing updates from R1 and R4 based on rapporteur proposal, and merged endorsed output of other email discussions, Start (Tuesday Aug 25, assuming timely delivery from R1 and R4).

Wanted outcome: Agreed CRs 306 331

On-Line 20/8:

- Nothing controversial, continue by email.

- Docomo think there are proposals to change the signalling granularity, but no comments so far.

- Intel think that part 1 is just small things from tdocs assigned, the RILs in the tdoc contain the complex parts.

- Continue by email. Can treat controversial issues on-line (companies are encouraged to discuss by email).

On-Line 24/8

Chair wonder whether there are other issues:

- Intel urges everyone to participate in the resolution of the RILs.

- Huawei wonder how to treat RILs where rapporteur has not yet made any proposals.

- Intel confirm that there are indeed rapporteur proposals for all the RIL, and it is in the draft folder. Huawei think some are missing. Intel think if such cases are found it need to be pointed out.

- Docomo think there is a tdoc, but some issues are very difficult and company opinions may be needed before any proposal is done.

- Chair think rapporteur can set intermediate deadline and point out solution direction.

On-Line 27/8

- Intel has sent out color coded versions of feature lists R1 and R4. There has been no comments so far, but it reflects what will attempt to be implemented.

[R2-2008424](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008424.zip) Report of email discussion AT111-e][015][NR16] UE cap Main Part1 Intel, NTT Docomo

- CATT wonder what happened with a LTE CR for the SONMDT CRs.

* All 4 proposals are agreed.

[R2-2006646](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006646.zip) Correction on RLF Report for Inter-RAT MRO NR CATT CR Rel-16 36.306 16.1.0 1778 - F NR\_SON\_MDT-Core

- CATT explains that this CR was left over as its NR counterpart (not exactly identical) was merged into the main discussion.

* CR is agreed

Organisation at R2 111-e for R16 NR UE caps

1. Confirm that NR R16 UE capability CRs will be two mega CRs 38331 38306, including all WIs.

2 The UE capabilities main email discussion / current AI 6.1.2 will take into account updated R1 R4 feature lists, except for WIs for which this is done in separate long discussions / treatment (see below)

4 Separate Short Discussions/Treatment, will not take into account further updated R1 R4 feature list: Endorsed Draft CRs ready Aug 21.

5 Separate Long Discussions/Treatment, shall take into account further updated R1 R4 feature list: Endorsed Draft CRs ready Aug 28.

6 Separate endorsed Draft CRs 38331 38306 are then merged into the mega CRs, in the UE capabilities Main discussion. The merged result is reviewed, but it is not intended to repeat already done discussions.

7 UE capabilities for V2X, NR Mobility Enh, NR positioning, are separate long discussions.

DISCUSSION

- Huawei think Aug 26 is too little time to take into account R1 R4 feature list. Oppo agrees that Aug 26 is too short. Chair agrees, and think 28 might work, or maybe that is also too short.

- Ericsson think that the deadline for the short discussions is too short, it is not easy to do endorsement during this time. Intel think the short ones can be Aug 21, most of the discussions can converge quickly.

- Chair think that if there are further opnions, discussion could continue in [015].

- Chair: Otherwise the plan seems ok

* Plan above is endorsed

DISCUSSION 2

- QC wonder what is the time line.

- Docomo think we should fix old issues before addressing new ones. RIL issues need to be fixed ASAP.

- Chair point out that we nominally have 1 week after the meeting, exceptionally 1.5 week to finish the CRs to RP.

- Intel think we will first review the updated feature list to decide what to implement/not implement. Plan to distribute this today.

[R2-2008539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008539.zip) Report of email discussion [AT111-e][015][NR16] UE cap Main - Class 3 issues Intel, NTT Docomo

DISCUSSION

- Intel indicates that “other” RILs in thie doc don’t need discussion but will be impl

* Clarify what the legacy UE behaviour is, if ul-FullPwrMode-r16 is not supported, by referring to the relevant section of RAN1 spec.
* Merge CA-ParametersNR-v16xy in 16.1 version. Not only for this IE, but the other IEs are also updated in 16.1 version.
* On PDCCH blind decoding capabilities, two variants of the number of blind decoding are defined, rather than defining “Rel-15/16” capabilities
* The meaning of “across all serving cells” is clarified for the capability of activeConfiguredGrant and sps in 38.306.

LS in

[R2-2006508](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006508.zip) LS on updated Rel-16 NR parameter lists (R1-2005051; contact: Qualcomm) RAN1 LS in Rel-16 NR\_unlic-Core, 5G\_V2X\_NRSL-Core, NR\_L1enh\_URLLC-Core, NR\_eMIMO-Core, NR\_UE\_pow\_sav-Core, NR\_pos-Core, NR\_RF\_FR1 To:RAN2, RAN3

- QC think that for the main WIs everything is implemented in the June version.

* Noted, already taken into account

[R2-2006510](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006510.zip) LS on updated Rel-16 RAN1 UE features lists for NR (R1-2005096; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-16 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, TEI16, NR\_CLI\_RIM-Core To:RAN2, RAN4

* Noted, already taken into account

[R2-2006511](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006511.zip) LS on updated Rel-16 RAN1 UE features lists for NR after RAN1#101-e (R1-2005109; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-16 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, TEI16, NR\_CLI\_RIM-Core To:RAN2, RAN4

* Noted, already taken into account

[R2-2006526](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006526.zip) LS on introducing UE capability for power class for NR band in MR-DC combination ([RP-201392](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201392.zip); contact: Huawei) RAN LS in Rel-16 TEI16 To:RAN2 Cc:RAN4

* Noted, topic will be treated based on contributions

LS in during meeting

[R2-2008441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008441.zip) LS on updated Rel-16 RAN1 UE features lists for NR RAN1 LS in Rel-16

* Noted

On-line 24/8

- Intel wonder about the following: “Regarding FG18-7 in UE features list for MR-DC/CA”. MTK think this is not discussed in the DCCA WI and more time is needed to understand. Huawei agrees more time is needed. Apple agrees. Intel wonder if we should now consider this “FFS” and thus remove this from signalling. Ericsson also need more time, but possibly this need to be removed. Chair think that if this cannot be resolved in time we remove it.

- Intel wonder about the rest of the items, where discussions are still ongoing. R1 has removed the word FFS, but informs in many cases that discussion is still ongoing. Intel suggest to assume “no FFS”. Ericsson think it would be safer to not include these in R2 TS. MTK agrees with Ericsson but think we can dicuss case-by-case.

- Chair: Please pay attention to the LS, decide case-by-case, what to implement.

[R2-2008443](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008443.zip) LS on Rel-16 RAN4 UE features lists for LTE and NR RAN4 LS in Rel-16

* Noted

On-line 24/8

- Intel think that in the R4 LS there are still FFSes, and the FFS parts will not be implemented.

- MTK wonder how we continue on the DCCA parts. Chair think we already decided to treat it in the main email discussion [015] (assuming this is about R2-2008064), once the R4 LS was received, so now it can be treated.

**General**

[R2-2006936](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006936.zip) Report of email discussion [Post109bis-e][082] UE Capabilties Intel Corporation, NTT DoCoMo discussion Rel-16 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

PRESENTATION

- P1 reflected in Draft LS

- P2 forwarded to NR Mobility Session.

- P3 forward to NE Mobility session, except HOIntraFIAB

- P5 forwarded to NR Mobility Session.

- P6.1, 6.2, 6.3 refected in Draft LS

DISCUSSION

P3

- Oppo wonder what the word “consistently” means, the new condition, think this is not needed.

- QC support the proposal, and the consistency is there already in the current agreement. Huawei has the same understanding as QC.

- Oppo wonder if this is a general principle. Intel think yes. Huawei think this is only when diff for both xDD and FRx.

- Huawei think HO capabilities are particularly complex

* P1, P6 are agreed (will reivew the LS next)
* HO-IntraF-IAB-r16 is signalled per Band, with the consistency condition expressed in P3
* P2, 3, 5 will be treated in the NR mobility session.
* Autonomous gaps treated separately

[R2-2006937](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006937.zip) Rel-16 UE capabilities based on RAN1 and RAN4 feature lists and RAN2 corrections Intel Corporation, NTT DoCoMo CR Rel-16 38.331 16.1.0 1756 - 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

=> Revised in R2-2008118

R2-2008118 Rel-16 UE capabilities based on RAN1 and RAN4 feature lists and RAN2 corrections Intel Corporation, NTT DoCoMo CR Rel-16 38.331 16.1.0 1756 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

* Endorsed (as the baseline, monday)

[R2-2006938](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006938.zip) Rel-16 UE capabilities based on RAN1 and RAN4 feature lists and RAN2 corrections Intel Corporation, NTT DoCoMo CR Rel-16 38.306 16.1.0 0370 - 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

=> Revised in R2-2008119

R2-2008119 Rel-16 UE capabilities based on RAN1 and RAN4 feature lists and RAN2 corrections Intel Corporation, NTT DoCoMo CR Rel-16 38.306 16.1.0 0370 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

* Endorsed (as the baseline, monday)

[R2-2006940](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006940.zip) Reply LS on Rel-16 UE feature lists Intel Corporation LS out Rel-16 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 To:RAN1, RAN4

- Intel informs that R4 will not make decisions on mobility UE cap, they leave it completely to R2. Huawei are not sure, and think an LS doesn’t harm in any case.

* Remove point 2 and the corresponding action from this LS. This will be informed in LS after decisions in NR Mobility session.
* With this change the LS is approved in R2-2008395.

RRM Enhancements

Autonomous gap, Easy Agreement on-line?

[R2-2006893](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006893.zip) CR to 38.331 on UE autonomous gap related capabilities ZTE Corporation, Sanechips, Ericsson, Nokia, Nokia Shanghai Bell, MediaTek Inc, Qualcomm Incorporated, Intel Corporation CR Rel-16 38.331 16.1.0 1752 - F NR\_RRM\_enh-Core

- ZTE indicate that this CR is NBC.

* Endorsed (to be merged)

[R2-2006894](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006894.zip) CR to 38.306 on UE autonomous gap related capabilities ZTE Corporation, Sanechips, Ericsson, Nokia, Nokia Shanghai Bell, MediaTek Inc, Qualcomm Incorporated, Intel Corporation CR Rel-16 38.306 16.1.0 0368 - F NR\_RRM\_enh-Core

* Endorsed (to be merged)

TEI16

TRS bandwidth

* [AT111-e][016][NR16] UE cap TRS bandwidth (Nokia)

Scope: Treat R2-2007498, R2-2007499, R2-2008089, R2-2008090 (proponents to drive)

Deadlines: Short NR UE cap

[R2-2008406](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008406.zip) Summary of [AT111-e][016][NR16] UE cap TRS bandwidth (Nokia) Nokia

* [016] Noted, agreements reflected below

[R2-2007498](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007498.zip) Capability signalling for limited TRS bandwidth for 10 MHz bandwidth with 15 kHz SCS Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.1.0 0381 - B TEI16

* [016] not pursued

[R2-2007499](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007499.zip) Capability signalling for limited TRS bandwidth for 10 MHz bandwidth with 15 kHz SCS Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1848 - B TEI16

* [016] not pursued

4 moved from 6.16

[R2-2007803](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007803.zip) Support of flexible TRS bandwidth sizes Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1910 - F TEI16 Revised

[R2-2008089](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008089.zip) Support of new newly defined TRS bandwidth sizes Huawei, HiSilicon, Ericsson, Vodafone CR Rel-16 38.331 16.1.0 1910 1 F TEI16 [R2-2007803](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007803.zip) Late

[R2-2008434](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008434.zip) Support of new newly defined TRS bandwidth sizes Huawei, HiSilicon, Ericsson, Vodafone, Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1910 2 F TEI16

* [016] Endorsed (merge)

[R2-2007804](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007804.zip) Support of flexible TRS bandwidth sizes Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0391 - F TEI16 Revised

[R2-2008090](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008090.zip) Support of new newly defined TRS bandwidth sizes Huawei, HiSilicon, Ericsson, Vodafone CR Rel-16 38.306 16.1.0 0391 1 F TEI16 [R2-2007804](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007804.zip) Late

[R2-2008435](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008435.zip) Support of new newly defined TRS bandwidth sizes Huawei, HiSilicon, Ericsson, Vodafone, Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.1.0 0391 1 F TEI16

* [016] Endorsed (merge)

Beam Switch Timing

* [AT111-e][017][NR16] UE cap Beam Switch Timing (Lenovo)

Scope: Treat R2-2006880, R2-2006881, R2-2006882, R2-2007505, R2-2007506 (proponents to drive),

Deadlines: Short NR UE cap

[R2-2008438](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008438.zip) Report from email discussion [AT111-e][017][NR16] UE cap Beam Switch Timin Lenovo

* [017] Noted, agreements captured below

3 Moved from 6.14.2:

[R2-2006880](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006880.zip) Clarification on the support of beamSwitchTiming values of 224 and 336 Lenovo, Motorola Mobility, Qualcomm Incorporated, Ericsson CR Rel-15 38.306 15.10.0 0366 - F NR\_newRAT-Core

* [017] Not Pursued

[R2-2006881](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006881.zip) Correction on the support of beamSwitchTiming values of 224 and 336 Lenovo, Motorola Mobility, Qualcomm Incorporated, Ericsson CR Rel-16 38.306 16.1.0 0367 - F NR\_newRAT-Core, TEI16

* [017] Not Pursued

[R2-2006882](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006882.zip) Correction on the support of beamSwitchTiming values of 224 and 336 Lenovo, Motorola Mobility, Qualcomm Incorporated, Ericsson CR Rel-16 38.331 16.1.0 1744 - F TEI16

* [017] Not Pursued

[R2-2007505](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007505.zip) Correction on beamSwitchTiming values of 224 and 336 vivo CR Rel-16 38.331 16.1.0 1852 - F TEI16

* [017] Endorsed (merge)

[R2-2007506](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007506.zip) Correction on beamSwitchTiming values of 224 and 336 vivo CR Rel-16 38.306 16.1.0 0382 - F TEI16

* [017] Endorsed (merge)
* [AT111-e][018][NR16] UE cap MR-DC Power Class (Huawei)

Scope: Treat R2-2007112, R2-2007113, R2-2007114, R2-2008077, R2-2008078 (proponents to drive),

Deadlines: Short NR UE cap

[R2-2008433](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008433.zip) Summary of offline 018 UE cap MR-DC Power Class Huawei

- [018] Intermediate Rap: 10 companies joined the discussion and 7 companies prefer Option 1, 2 companies prefer Option 2 and 1 company proposed Option 3. As even within these 3 companies who are not in favour of Option 1, it is also acknowledged that option 1 can address the case described in the RANP LS. From moderator’s point of view, to introduce a future-proof signalling could be helpful in general, however for this particular case we even don’t know what would be the new cases from RAN4 and it is now difficult to justify whether the RAN2 signalling matches what RAN4 wants appropriately in the future. Thus it is proposed to adopt Option 1.

* [018] Noted, agreements captured below

MR-DC power class LS [R2-2006526](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006526.zip)

[R2-2007112](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007112.zip) Discussion on UE capability for power class for NR band in MR-DC combination Apple discussion Rel-16 TEI16

* [018] Noted

[R2-2007113](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007113.zip) UE capability for power class for NR band in MR-DC combination Apple CR Rel-16 38.331 16.1.0 1786 - F TEI16

* [018] Not Pursued

[R2-2007114](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007114.zip) UE capability for power class for NR band in MR-DC combination Apple CR Rel-16 38.306 16.1.0 0373 - F TEI16

* [018] Not Pursued

4 Moved from 6.15

[R2-2007801](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007801.zip) Introduction of new PowerClass for NR part in MR-DC Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1909 - F TEI16 Revised

[R2-2008077](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008077.zip) Introduction of new PowerClass for NR part in MR-DC Huawei, HiSilicon, CMCC CR Rel-16 38.331 16.1.0 1909 1 F TEI16 [R2-2007801](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007801.zip)

* [018] Endorsed (merge)
* [018] Late: the field name powerClassNRPart to be changed to powerClassNR-Part, and following the general guideline on extension of RF-ParametersMRDC (merge)

[R2-2007802](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007802.zip) Introduction of new PowerClass for NR part in MR-DC Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0390 - F TEI16 Revised

[R2-2008078](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008078.zip) Introduction of new PowerClass for NR part in MR-DC Huawei, HiSilicon, CMCC CR Rel-16 38.306 16.1.0 0390 1 F TEI16 [R2-2007802](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007802.zip)

* [018] Endorsed (merge)
* [018] Late: the field name powerClassNRPart to be changed to powerClassNR-Part, and following the general guideline on extension of RF-ParametersMRDC (merge)

MDT SON

Moved from 6.10.3 – Treated in UE Cap Main discussion

[R2-2006647](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006647.zip) Correction on RLF Report for Inter-RAT MRO EUTRA CATT CR Rel-16 38.306 16.1.0 0365 - F NR\_SON\_MDT-Core

* [015] merged (with modifications)

[R2-2007781](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007781.zip) Correction to 38306 on inter-RAT MRO feature ZTE Corporation, Sanechips CR Rel-16 38.306 16.1.0 0385 - F NR\_SON\_MDT-Core

* [015] merged (with modifications)

RACS

Moved from 6.12 – Treated in UE Cap Main discussion

[R2-2007806](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007806.zip) CR on UE capability of segmentation for UE capability information Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0392 - F RACS-RAN-Core

* [015] merged (with modifications)

[R2-2007807](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007807.zip) CR on UE capability of segmentation for UE capability information Huawei, HiSilicon CR Rel-16 36.306 16.1.0 1783 - F RACS-RAN-Core

* [015] merged (with modifications)

2-Step RACH

Moved from 6.11.3 – Treated in UE Cap Main discussion

[R2-2006577](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006577.zip) Clarification on 2-step RACH capability vivo CR Rel-16 38.306 16.1.0 0364 - F NR\_2step\_RACH-Core

* [015] merged (with modifications)

RF FR1

UL TX Switching, all moved from 6.15

* [AT111-e][019][NR16] UE cap UL TX switching (China Telecom)

Scope: Treat R2-2006985, 7604, 7949, 7085, 8106, 7086, 7950, 7087, 6895, 6896

Deadlines: Short UE Caps

[R2-2008415](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008415.zip) UL-TX-Switch Capabilities – Alternative to parallel list of BCs Ericsson

DISCUSSION

- TMO US think we cannot use BCS, R4 is in deciding to not use it.

- QC wonder for BC with SUL and ENDC whether the UE will support only the TX-switching BC, how can the UE signal the legacy ones. QC think there will be BC that are only used with TX switching and will not be used without it, so BC in the legacy meaning doesn’t exist then.

- Huawei agree with QC and think the FCS solution doesn’t work for such scenarios. The new BCS avoids interoperability issues.

- Huawei also have lots of technical questions, and think it is risky to do this at such late stage.

- Apple think it is difficult to identify which UE caps that can be impacted by UO TX-switching. IN Ercissson CR only MIMO is added, Apple think SRS port is also needed. Apple think the gNB may be very confused about the legacy UE caps.

- Ericsson think this is reason why the proposal is now to have a separate FSC. Ericsson think that if some BC is only with TX switching, then the legacy list is needed anyway but UL features set to zero. QC think we have now decided that this should not be done, i.e. no superset BC that is not defined in R4. Ericsson think the network will not configure DC in such case,

- China Telecom think we have discussed this issue for 3 meetings now and it is stable, and agree with Huawei that it is very risky to attempt such change now. CATT agrees as well.

- ZTE agree with QC Huawei and Apple. There would still be technical questions.

- Chair: not sufficient support

* Noted

R2-200xxxx Summary of offline 019 UE cap UL TX switching China Telecom

* [019] Confirm that apart from the agreed 1T+2T UE capability there is no need to report 1T+1T UE capability in new BC list specific for inter-band CA/EN-DC option2.

[R2-2006985](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006985.zip) Discussion on remained issues of UL Tx switching China Telecom discussion

* [019] Noted

[R2-2007604](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007604.zip) Remaining issues for UL Tx Switching Ericsson discussion

* [019] Noted

[R2-2007949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007949.zip) Remaining issues on dynamic UL Tx switching Huawei, HiSilicon, ZTE Corporation, Sanechips discussion Rel-16 NR\_RF\_FR1

* [019] Noted

[R2-2007085](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007085.zip) Remaining issues on UL switching Apple, OPPO discussion Rel-16 TEI16, NR\_RF\_FR1

* [019] Noted

[R2-2008106](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008106.zip) Discussion on fallback-BC for UL TX switching OPPO discussion Rel-16 TEI16, NR\_RF\_FR1

* [019] Noted, Proposal partially agreed, reflected in TP from email discussion

[R2-2007086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007086.zip) Draft LS on UE capability derivation from 2Tx to 1Tx in UL Tx switching Apple LS out Rel-16 TEI16, NR\_RF\_FR1 To:RAN1, RAN4

* [019] Noted

[R2-2007950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007950.zip) CR on clarification of fallback BC and prerequisite of CA case in supportedBandCombinationList-UplinkTxSwitch Huawei, HiSilicon, ZTE Corporation, Sanechips CR Rel-16 38.306 16.1.0 0399 - F NR\_RF\_FR1

[R2-2008100](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008100.zip) CR on clarification of fallback BC and prerequisite of CA case in supportedBandCombinationList-UplinkTxSwitch Huawei, HiSilicon, ZTE Corporation, Sanechips CR Rel-16 38.306 16.1.0 0399 1 F NR\_RF\_FR1

* [019] Contents Partially agreed, reflected in TP from email discussion

[R2-2007087](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007087.zip) Fallback band combination exception for UL Tx switching Apple, China Telecom, OPPO CR Rel-16 38.306 16.1.0 0372 - F TEI16, NR\_RF\_FR1

* [019] not Pursued

[R2-2006895](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006895.zip) CR to 38.306 on introducing power boosting in UL Tx switching CA case ZTE Corporation, Sanechips, China Telecom, Huawei, HiSilicon, OPPO CR Rel-16 38.306 16.1.0 0369 - C NR\_RF\_FR1

* [019] Contents agreed as baseline, minor comments need to be incorporated.

[R2-2006896](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006896.zip) CR to 38.331 on introducing power boosting in UL Tx switching CA case ZTE Corporation, Sanechips, China Telecom, Huawei, HiSilicon, OPPO CR Rel-16 38.331 16.1.0 1753 - C NR\_RF\_FR1

* [019] Contents agreed as baseline, minor comments need to be incorporated.

RF FR2

* [AT111-e][020][NR16] UE cap RF FR2 (Nokia)

Scope: Treat R2-2007403, R2-2007082, R2-2007083, R2-2007380, R2-2007381

Deadlines: Short UE Caps

R2-200xxxx Summary of [AT111-e] [020] [NR16] UE cap RF FR2 (Nokia) Nokia

* [020] Noted, agreements captured below.

Dl only spectrum, moved from 6.15

[R2-2007403](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007403.zip) DL-only spectrum Ericsson, Apple discussion Rel-16 NR\_RF\_FR2\_req\_enh-Core

* [020] Noted

[R2-2007082](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007082.zip) Introduction on frequency separation class for DL-only FR2 spectrum Apple, Ericsson CR Rel-16 38.306 16.1.0 0371 - F TEI16, NR\_RF\_FR2\_req\_enh

- [020] Rep: CR agreeable, but need to incorporate comments from email discussion

* [020] revised

[R2-2007083](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007083.zip) Introduction on frequency separation class for DL-only FR2 spectrum Apple, Ericsson CR Rel-16 38.331 16.1.0 1784 - F TEI16, NR\_RF\_FR2\_req\_enh

- [020] Rep: CR agreeable, but need to incorporate comments from email discussion

* [020] revised

Suspend IBE requirements, moved from 6.15

[R2-2007380](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007380.zip) Uplink power boosting via suspended IBE requirements Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1840 - B NR\_RF\_FR2\_req\_enh

[R2-2007381](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007381.zip) Uplink power boosting via suspended IBE requirements Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.1.0 0379 - B NR\_RF\_FR2\_req\_enh

- [020] Chair: the CRs seems agreeable, but it seems also configuration is needed for this feature to work.

DCCA Enhancements

Early measurements, Wait for R4 LS, treat in UE Cap main discussion

[R2-2008064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008064.zip) Discussion on early measurement capabilities MediaTek Inc. discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

* [015] Noted, taken into account.

NR-DC

* [AT111-e][021][NR16] UE cap NR-DC (Qualcomm)

Scope: Treat R2-2006558, R2-2007946, R2-2007605,

Deadlines: TBD

[R2-2008422](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008422.zip) Summary of Offline discussion#021: UE cap NR-DC (Qualcomm) Qualcomm

On-Line W1

P2:

- Nokia think we cannot do anything until R4 has decided. Most companies think we follow R15 principle, cannot do anyting anything else until R4 decides differently.

- Huawei think we will anyway refer to R4 BC list, Huawei think we don’t need to do anything now.

- Intel think we can introduce new signalling for cases that cannot be handled by R15, or have completely new signalling. R4 has defined intra-FR1 and Intra-FR2 cases, but R1 and R4 are still discussing.

- Chair wonder if we can just postpone. Ericsson think we need to postpone anyway.

- QC think the main restriction that is needed is to restrict MCG/SCG roles.

- TMO UE think it is important to have all cases for R16, and the signalling should be flexible enough.

- MTK think asynch is ok with the old principle, and asks whether the issue is for synch only, and which exact proposal this relates to.

- Huawei think the UE is required to support sync NR DC without restriction. Ericsson agrees. QC has concerns about this, and it should be possible to do only R15 NR-DC also for R16 UEs.

- Apple think we need to agree something at this meeting and think it is dangerous to imply capability with absence of signalling. Samsung agrees that we should try to converge this meeting.

- Apple want to first make clear what would be the consequences of using the R15 signalling, and we should ask R4 and R1, and explain improvements

- CATT think we need to better understand for synch case and would be ok to send an LS.

- Intel think that we can also discuss, e.g. whether we need cell grouping for intra-FR1 intra FR2 cases.

* Agree by email the async parts (that seems agreeable), continue discussion on synch case, and clarify consequences of the signalling proposals on the table. Can work on a draft LS to R1 R4, will come back on-line next week to finally decide whether to send it.

[R2-2008579](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008579.zip) Summary of Offline discussion#021: UE cap NR-DC (Qualcomm) Qualcomm

Late CB DISCUSSION

P2

- Nokia wonder what P2 means. QC think LTE can be the baseline for the cell grouping. Nokia agrees.

- Ericsson are OK but not sure what bullet 2 means, and should not have it until we know. QC think that if so we can keep FFS for now

- Intel think general use cases shall be considered and are not sure the bullet 2 is needed

- Apple think the bullet 2 is useful.

- Huawei think LTE cell grouping is not so good if MCG and SCG is differentiated, and think R15 band ordering shall not be impacted.

- Samsung support LTE signalling and think MCG SCG diff can be separate and can be resolved

- Apple think RP changed the situation.

P3

- ZTE think P3 is already covered by P1.

- MTK are confused about P3 and think there need to be new signalling to make the text work.

- Chair: it seems P3 needs complementary information to be correctly understood, converge by email

P4

- Huawei think we need more info from R4 to finalize the signalling

- Samsung think it is important to have CRs at this meeting, and LS is to inform. Samsung think the worst case is that our signalling is not efficient. Nokia agrees with Samsung.

* For sync NR-DC:

38.306 CR to capture “The UE shall not report this UE capability from this release” in field description of *sfn-SyncNRDC*

Confirm that Rel-16 UE shall support Rel-15 grouping (i.e. MCG fully in FR1 and SCG fully in FR2), for backward compatibility with Rel-15 network. No new signaling is required to be introduced.

* For async NR-DC, introduce 1-bit indication on whether Rel-16 UE supports asynchronous operation and its supported cell grouping for a given band combination,

Absence of cell grouping signaling means the UE only support Rel-15 cell grouping (i.e. MCG fully in FR1 and SCG fully in FR2)

Cell grouping is supported, FFS: signaling detail of cell grouping (LTE cell grouping capability can be considered)

MCG and SCG can be differentiated in cell grouping signalling (provided that we can finally agree on a signalling solution) FFS how to signal

* Assume to send LS, at least for information.

Chairman: Continue by email. We shall/should have CRs for NR DC UE caps (including Async and Synch) this meeting. If we need an additional week, merge with MEGA CR will not be possible, but then we should have individual CRs.

[R2-2006558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006558.zip) Introduce capabilities on Async NR-DC and cell-grouping configuration Qualcomm Incorporated discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

* [021] Noted

Moved from 6.8.4

[R2-2007605](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007605.zip) UE capabilities for NR-DC Ericsson discussion

* [021] Noted

[R2-2007946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007946.zip) Correction on non-SFN-sync NR-DC support Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0398 - F LTE\_NR\_DC\_CA\_enh-Core

### 6.1.3 Other

Other issue that do not fit under any other topic.

Early implementation

* [AT111-e][022][NR16] Early Implementation (CMCC)

Scope: Treat R2-2008102, R2-2008103, R2-2006716, R2-2007231

Expected Outcome: Agreed CR 38331

Deadline: CR Agreed by EOM, Deadline for comments 1 day earlier, or as set by rapporteur

Move from 6.1.2

[R2-2007997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007997.zip) Early Release Support of Features in NR CMCC,ZTE,Huawei,CATT discussion Rel-17 TEI16 Revised

[R2-2008084](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008084.zip) Early Release Support of Features in NR CMCC,ZTE,Huawei,CATT,Ericsson discussion Rel-17 TEI16 [R2-2007997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007997.zip)

=> Revised in R2-2008102

R2-2008102 Early Release Support of Features in NR CMCC, ZTE, Huawei, CATT, Ericsson discussion Rel-17 TEI16

[R2-2007998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007998.zip) CR for Early Implementation in NR CMCC,ZTE,Huawei,CATT CR Rel-17 38.331 16.1.0 1961 - B TEI16 Revised

[R2-2008085](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008085.zip) CR for Early Implementation in NR CMCC,ZTE,Huawei,CATT,Ericsson CR Rel-17 38.331 16.1.0 1961 1 B TEI16 [R2-2007998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007998.zip)

=> Revised in R2-2008103

R2-2008103 CR for Early Implementation in NR CMCC, ZTE, Huawei, CATT, Ericsson CR Rel-17 38.331 16.1.0 1961 2 B TEI16

[R2-2006716](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006716.zip) Handling of early implementable features in NR Intel Corporation discussion Rel-16 TEI16

2 Moved from 6.16:

[R2-2007231](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007231.zip) UE requirements on ASN.1 comprehension covering early implementation Samsung Telecommunications CR Rel-16 38.331 16.1.0 1807 - F TEI16

[R2-2007960](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007960.zip) Introduction of CR containing early implementable feature Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1949 - F TEI16

**NG-ENDC capability**

* [AT111-e][023][NR16] NG-ENDC capability (vivo)

Scope: Treat R2-2008080, R2-2008081, R2-2008082

Deadline: Short UE cap

DISCUSSION

- Vivo want to move this to V2X session.

- Apple think there are more aspects than V2X.

[R2-2008080](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008080.zip) Clarification on the extended capability of NGEN-DC vivo CR Rel-16 36.306 16.1.0 1784 - F NR\_newRAT-Core

[R2-2008081](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008081.zip) Clarification on the extended capability of NGEN-DC vivo CR Rel-16 38.306 16.1.0 0402 - F NR\_newRAT-Core

[R2-2008082](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008082.zip) Clarification on the extended capability of NGEN-DC vivo CR Rel-15 38.306 15.10.0 0403 - F NR\_newRAT-Core

**MAC**

* [AT111-e][024][NR16] MAC Misc Corrections (Samsung)

Scope: Treat R2-2007717, R2-2007061, R2-2007713, include other corrections to be merged with rapporteur CR (if any)

Deadline: EOM

R2-2008449    Report of [AT111-e][024][NR16] MAC Misc Corrections (Samsung) Samsung          discussion   Rel-16   TEI16, LTE\_NR\_DC\_CA\_enh-Core, NR\_2step\_RACH-Core

* [024] Noted

[R2-2006659](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006659.zip) Miscellaneous corrections Samsung CR Rel-16 38.321 16.1.0 0769 - F LTE\_NR\_DC\_CA\_enh-Core, NR\_2step\_RACH-Core Revised

[R2-2007717](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007717.zip) Miscellaneous corrections Samsung CR Rel-16 38.321 16.1.0 0769 1 F TEI16, LTE\_NR\_DC\_CA\_enh-Core, NR\_2step\_RACH-Core [R2-2006659](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006659.zip)

R2-2008450    Miscellaneous corrections Samsung          CR        Rel-16   38.321  16.1.0   0769     2          F   TEI16, LTE\_NR\_DC\_CA\_enh-Core, NR\_2step\_RACH-Core         R2-2007717

* [024] Agreed

[R2-2007061](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007061.zip) Stopping ongoing Random Access procedure LG Electronics Inc. discussion Rel-16 TEI16

* [024] Postponed

[R2-2007713](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007713.zip) Alignment of SR clause Ericsson, Samsung CR Rel-16 38.321 16.1.0 0732 2 F NR\_unlic-Core, NR\_eMIMO-Core, NR\_IAB\_enh R2-2005328

* [024] Postponed

## 6.2 Integrated Access and Backhaul

(NR\_IAB-Core; leading WG: RAN2; REL-16; started: Dec 18; target Aug 20; WID: [RP-200840](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200840.zip); SR: [RP-201234](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201234.zip), R1, R2, R3 core parts are 100% complete).

Email max expectation: 5 mail threads

### 6.2.1 General and Stage 2 Corrections

Incoming LS. 38300 36300 (QC) 37340 (HW)

LS in

[R2-2006517](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006517.zip) LS on IAB F1-C traffic transfer for NSA IAB (R3-204165; contact: Nokia) RAN3 LS in Rel-16 NR\_IAB-Core To:RAN2

- QC think this is already reflected in the TS

* Noted

[R2-2006520](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006520.zip) LS on multiple UL BH mapping for F1-C (R3-204345; contact: Huawei) RAN3 LS in Rel-16 NR\_IAB-Core To:RAN2

- Huawei indicate this is ralready implemented

* Noted
* [AT111-e][026][IAB] Stage-2 Corrections (Qualcomm)

Scope: Treat R2-2006504, 8363, 6963, 7315, 7374, 7509, 7539, 7545, 7536, 7535, 7965. Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27 0900 UTC

38300

[R2-2006504](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006504.zip) LS on IAB updates to 38.300 (R1-2004872; contact: Qualcomm) RAN1 LS in Rel-16 NR\_IAB-Core To:RAN2

- QC indicate that this is already in TS

* Noted

[R2-2008363](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008363.zip) Summary of corrections to 38300 for IAB Qualcomm CR Rel-16 38.300 16.2.0 0293 - F NR\_IAB-Core

[R2-2006963](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006963.zip) Correction to 38300 for IAB Qualcomm Incorporated draftCR Rel-16 38.300 16.2.0 NR\_IAB

[R2-2007315](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007315.zip) Miscellaneous Corrections on IAB in 38.300 ZTE, Sanechips CR Rel-16 38.300 16.2.0 0273 - D NR\_IAB-Core

[R2-2007374](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007374.zip) CR to 38.300 on BH RLC channel ZTE, Sanechips CR Rel-16 38.300 16.2.0 0275 - F NR\_IAB-Core

[R2-2007509](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007509.zip) IAB-MT capability signalling clarification Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.2.0 0279 - F NR\_IAB-Core

[R2-2007539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007539.zip) Corrections to capability signaling for IAB-MT Samsung Electronics Romania CR Rel-16 38.300 16.2.0 0281 - F NR\_IAB-Core

[R2-2007545](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007545.zip) Corrections to BH RLF in IAB Samsung Electronics Romania CR Rel-16 38.300 16.2.0 0282 - F NR\_IAB-Core

[R2-2007536](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007536.zip) Correction to cell selection for IAB SA Samsung Electronics Romania CR Rel-16 38.300 16.2.0 0280 - F NR\_IAB-Core

36300

[R2-2007535](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007535.zip) Corrections to cell selection for IAB in NSA Samsung Electronics Romania CR Rel-16 36.300 16.2.0 1303 - F NR\_IAB-Core

On-line:

- QC indicate that we haven’t introduced anything in 36300 for IAB

- Samsung think that this change is valid as SIB indication is there for LTE cell. Huawei agrees, but think this is captured in 304 and 331. Think something can be captured in 37340.

- LG think this is not correct.

- Ericsson think this is indeed correct but unfortunate that this is repeated in different TSes.

- Chair think the CR is formally correct but it isi not nice that we have spread the information in different TSes.

* Include in Email discussion for desicion

37340

[R2-2007965](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007965.zip) Miscellaneous correction for TS 37.340 for IAB Huawei, HiSilicon CR Rel-16 37.340 16.2.0 0225 - F NR\_IAB-Core

### 6.2.2 BAP Corrections

Treat on-line first

* [AT111-e][027][IAB] BAP Corrections (Huawei)

Scope: Treat further R2-2007484, 7966, 7316, 7483, 7967, 7317

Determine agreeable parts, Agree CRs

Deadline: Aug 26, Intermediate deadlines by Rapporteur if needed.

[R2-2008115](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008115.zip) Summary of 6.2.2 for BAP corrections Huawei, HiSilicon

DISCUSSION

P1

- ZTE agrees with P1, because in IAB migration packets may be handled wrongly otherwise. Any other way will not work in several scenarios.

- Samsung agrees with P1 and think such functionality (U packets by deafault config) is not needed in R16 but can be considered for R17.

- LG agrees and think we should have a note

P2

- LG think this should be clear in BAP by adding a Note.

- Huawei think this is clear already from normative text. Ericsson agrees, currect text is “non-F1-U packets.

P3

- treat the tdoc 7967 below briefly

P5

- ZTE think R3 has different terminology so we at least need to clarify this. Vivo agrees as well

- Samsung also support the clarification.

- LG think we should remove “destination” from Destination IPv6 prefix.

P6

- Chair think some misc CR will be agreed in the end, details for email discussion.

* F1-U packets is NOT allowed to use the default BAP configuration (no need to clarify further in the TS).
* R2 clarify the “Destination IP address” covers the “Destination IPv4 address”, “Destination IPv6 address” and “Destination IPv6 prefix” in TS 38.340, detailed wording TBD (e.g. inclusion of “destination”)

[R2-2008498](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008498.zip) Summary of [AT111-e][027][IAB] BAP Corrections Huawei, HiSilicon

* [027] Noted

Default configuration

[R2-2007296](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007296.zip) Packet handling after receiving default ID configuration in RRC LG Electronics Inc. discussion Rel-16 NR\_IAB-Core

* Noted

[R2-2007484](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007484.zip) Default configuration usage corrections in BAP Nokia, Nokia Shanghai Bell CR Rel-16 38.340 16.1.0 0005 - F NR\_IAB-Core

* Discuss by email, merge agreeable parts with Rapporteur CR.
* [027] Merge the 2nd change (change “until”) in R2-2007484 into the Rapporteur CR.

Clarifications

[R2-2007966](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007966.zip) Miscellaneous corrections to 38.340 for IAB Huawei, HiSilicon CR Rel-16 38.340 16.1.0 0006 - F NR\_IAB-Core

[R2-2008499](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008499.zip) Miscellaneous corrections to 38.340 for IAB Huawei, HiSilicon CR Rel-16 38.340 16.1.0 0006 1 F NR\_IAB-Core

* [027] Agreed

[R2-2007316](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007316.zip) Corrections on IAB-DU IP address allocation in 38.340 ZTE, Sanechips CR Rel-16 38.340 16.1.0 0002 - F NR\_IAB-Core

[R2-2007483](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007483.zip) BAP routing configuration clarification Nokia, Nokia Shanghai Bell CR Rel-16 38.340 16.1.0 0004 - F NR\_IAB-Core

* Discuss by email, merge agreeable parts with Rapporteur CR.
* [027] Not Pursued

Flow Control

[R2-2007967](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007967.zip) Corrections on flow control BAP control PDU Huawei, HiSilicon CR Rel-16 38.340 16.1.0 0007 - F NR\_IAB-Core

- Ericsson think the figure is correct, but are not sure about the note. LG think also this note is not needed.

- CATT think is better to clarify this.

* The figure change is agreed, whether to have the note can continue by email.
* [027] Agreed

[R2-2007317](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007317.zip) Corrections on IAB flow control in 38.340 ZTE, Sanechips CR Rel-16 38.340 16.1.0 0003 - F NR\_IAB-Core

* Discuss by email, merge agreeable parts with Rapporteur CR.

### 6.2.3 User plane Corrections

38321 (Samsung)

* [AT111-e][028][IAB] MAC Corrections (Samsung)

Scope: Treat R2-2007199, 7319, 7318, 7728, 7969, 7320, 7968. Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 25, Intermediate deadlines by Rapporteur if needed.

Misc

[R2-2007199](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007199.zip) IAB MAC - miscellaneous corrections and clarifications Samsung Electronics GmbH CR Rel-16 38.321 16.1.0 0809 - F NR\_IAB-Core

[R2-2007319](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007319.zip) Miscellaneous Corrections on IAB in 38.321 ZTE, Sanechips CR Rel-16 38.321 16.1.0 0815 - D NR\_IAB-Core

[R2-2007318](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007318.zip) Corrections on pre-BSR in 38.321 ZTE, Sanechips CR Rel-16 38.321 16.1.0 0814 - F NR\_IAB-Core

RA cancel at Pre-emptive BSR

[R2-2007728](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007728.zip) RACH stop for SR triggered by Pre-emptive BSR ASUSTeK discussion Rel-16 38.321 NR\_IAB-Core

[R2-2007969](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007969.zip) Correction on RA cancellation for Pre-emptive BSR Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0873 - F NR\_IAB-Core

Guard Symbols MAC CE

[R2-2007320](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007320.zip) CR to 38.321 on Guard Symbols MAC CE ZTE, Sanechips CR Rel-16 38.321 16.1.0 0816 - F NR\_IAB-Core

[R2-2007968](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007968.zip) Correction on Guard Symbols MAC CE Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0872 - F NR\_IAB-Core

### 6.2.4 RRC Corrections

38331 36331 (Ericsson), Treat on-line first

* [AT111-e][029][IAB] RRC Corrections (Ericsson)

Scope: Treat R2-2007323, 7972, 7976, 7507, 7520, 7522, 7524, 7975, 7324, 7534, 7970, 8088, 7538, 7973, 7162, 7974, 7977, 7978, 7321/7322, 7546, 7979, 7325, and 7982 (if needed)

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27, Intermediate deadlines by Rapporteur if needed.

[R2-2008394](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008394.zip) Summary of Rel.16 IAB RRC Corrections Ericsson

- Chair: will use the recommendation of which tdocs to treat on-line.

* Noted

IP address allocation

[R2-2007543](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007543.zip) Corrections to ip address configuration for IAB Samsung Electronics Romania CR Rel-16 38.331 16.1.0 1859 - F NR\_IAB-Core

- Huawei think delta config can indeed be supported with the old structure, and this is not needed.

- LG support this change, and it follows in general the RRC conventions.

- Ericsson think the change may improves the ASN.1 structure for this, but redundant to have both setup release and addmodrel ..

- Intel think setuprelease if not needed if this is already an addmod list.

* Not pursued

[R2-2007323](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007323.zip) Corrections on IAB-DU IP address allocation in 38.331 ZTE, Sanechips CR Rel-16 38.331 16.1.0 1832 - F NR\_IAB-Core

F1-C

[R2-2007972](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007972.zip) Corrections on F1-C transfer path Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1952 - F NR\_IAB-Core

Cell selection / reselection

[R2-2007976](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007976.zip) Correction on cellReservedForOperatorUse Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1956 - F NR\_IAB-Core

[R2-2007507](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007507.zip) Corrections to iab-support indicator in NSA Samsung Electronics Romania CR Rel-16 36.331 16.1.1 4386 - F NR\_IAB-Core

[R2-2007520](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007520.zip) Corrections to iab-support indicator in SA Samsung Electronics Romania CR Rel-16 38.331 16.1.0 1855 - F NR\_IAB-Core

[R2-2007522](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007522.zip) Correction to intra-frequency reselection for IAB in NSA Samsung Electronics Romania CR Rel-16 36.331 16.1.1 4387 - F NR\_IAB-Core

[R2-2007524](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007524.zip) Corrections to intra-frequency reselection for IAB in SA Samsung Electronics Romania CR Rel-16 38.331 16.1.0 1856 - F NR\_IAB-Core

Misc

[R2-2007975](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007975.zip) Correction on the value range of BH-LogicalChannelIdentity-Ext Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1955 - F NR\_IAB-Core

- Samsung think the range change is needed, but the description do not need to change/

- Ericsson think the change shall be aligned with the non-extended change.

* We need to update the value range, details for email discussion

[R2-2007324](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007324.zip) Miscellaneous Corrections on IAB in 38.331 ZTE, Sanechips CR Rel-16 38.331 16.1.0 1833 - D NR\_IAB-Core

[R2-2007534](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007534.zip) Editorial corrections in BAP configuration Samsung Electronics Romania CR Rel-16 38.331 16.1.0 1857 - D NR\_IAB-Core

[R2-2007970](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007970.zip) Miscellaneous corrections for TS 38.331 for IAB Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1950 - F NR\_IAB-Core

[R2-2008088](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008088.zip) Clean-up of misaligned requirements between procedure and field description LG Electronics France discussion NR\_IAB-Core

RLF

[R2-2007538](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007538.zip) Corrections to MCGFailureInformation procedure Samsung Electronics Romania CR Rel-16 38.331 16.1.0 1858 - F NR\_IAB-Core

[R2-2007973](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007973.zip) Correction on the bh-rlfRecoveryFailure for IAB-MT Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1953 - F NR\_IAB-Core

[R2-2007971](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007971.zip) Correction on BAP operation during RRC re-establishment Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1951 - F NR\_IAB-Core

- Ericsson think BAP operation is not defined in RRC and anyway DRBs are suspended etc, so there should be no need to specify this. It should work like this but no need to specify.

- Nokia wonder if the BAP behaviour could be correct, if the reest is towards same gNB? So sugest to not specify. Vivo agrees.

- ZTE has sympaty for the change for UL. For DL the operation can continue.

- QC wonder what should be suspended? The BH rlc channes? Maybe not BAP completely.

- FW agree w QC.

- CATT agrees with intention but are ok to leave to impl.

- Samsung has same view as majority.

- LG has some sympathy with this, as default RRC config will be applied. But change should be in BAP, not RRC. Huwei want to address another issue, are ok to handle by impl

- QC think we need more discussion.

* Not agreed

[R2-2007162](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007162.zip) Corrections of RLF cause Signalling procedure vivo CR Rel-16 38.331 16.1.0 1794 - F NR\_IAB-Core

Default config

[R2-2007974](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007974.zip) Corrections on default BH RLC channel Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1954 - F NR\_IAB-Core

L1 Config

[R2-2007977](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007977.zip) Correction on SearchSpace configuration for IAB Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1957 - F NR\_IAB-Core

[R2-2007978](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007978.zip) Corrections on the IAB-MT TDD resource configuration Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1958 - F NR\_IAB-Core

[R2-2007321](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007321.zip) Support of soft resource availability indication for paired spectrum ZTE, Sanechips discussion Rel-16

[R2-2007322](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007322.zip) CR to 38.331 on support of soft resource availability indication for paired spectrum ZTE, Sanechips CR Rel-16 38.321 16.1.0 0817 - F NR\_IAB-Core

- Ericsson think that the referred table in R1 is agnostic to this aspects. Intel agrees.

- ZTE think anyway that UL and DL can be different for FDD

- Samsung think this is not needed, as for for F1-AP includes the UL and DL/.

- LG has some sympathy with this proposal but think this should be confirmed by R1.

- Huawei think the intention is aligned with R1 agreements but think more time is needed for offline check. For the CR huwei think as it is easy to add in BW compatible way, it should be done.

- vivo agrees this can be checked offline.

- ZTE think this was already captured in R3.

- QC has sympathy for the proposal but think we can check offline.

* Continue by email (companies need time to check).

36331

[R2-2007546](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007546.zip) Corrections to ULInformationTransferMRDC Samsung Electronics Romania CR Rel-16 36.331 16.1.1 4388 - F NR\_IAB-Core

[R2-2007979](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007979.zip) Correction of on the IP address requesting in EN-DC Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4419 - F NR\_IAB-Core

[R2-2007325](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007325.zip) CR to 36.331 on F1-C traffic over LTE ZTE, Sanechips CR Rel-16 36.331 16.1.1 4379 - F NR\_IAB-Core

### 6.2.5 UE capabilities

Including corrections and remaining open issues if any on RAN2 capabilities and minimum capabilities of IAB MT. The adoption of R1 and R4 updated feature lists is handled under 6.1.1

The outcome in [RP-201292](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201292.zip) on IAB MT Capabilities was endorsed at RP88e and shall be taken into account.

38306 38331 (Nok).

* [AT111-e][030][IAB] UE capabilities (Nokia)

Scope: Treat R2-2008105, 6959, 7508 7980, 7981, [R2-2008444](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008444.zip)

Deadline: TBD

1 LS Moved here, was received during meeting:

[R2-2008444](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008444.zip) LS to RAN2 on IAB-MT feature list RAN4 LS in Rel-16

* Noted, Covered in email disc [030]

- Chairman Comment: As the R4 LS was added to email discussion [030], there is a risk that this email discussion need more time (1 week post) and might not be ready for merge, in that case, separate non merged CRs for RP (TBD)

[R2-2007508](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007508.zip) Update to IAB-MT capabilities Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.1.0 0383 - F NR\_IAB-Core

[R2-2008461](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008461.zip) Update to IAB-MT capabilities Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.1.0 0383 1 F NR\_IAB-Core

On-line Late CB

- For *eventA-MeasAndReport* Huawei think there should be a separate UE cap (same as other parameters). Huawei wonder then why have a new cap for inter freq handover. Huawei think same could be used for IAB MT. Nokia think that the majority wanted it this way.

- Nokia think we can just reuse the UE capability framework, but acknowledge there might be differences for IAB MT.

- Chair think there should be a principle, we should not just follow the majority for every case. Nokia CATT and Huawei agrees.

* UE cap for IAB MT shall reuse existing parameters as much as possible, with additional description for IAB MT (e.g. that it is optional instead of mandatory).

[R2-2008105](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008105.zip) Summary of IAB UE capabilities under AI 6.2.5 Nokia (Summary Rapporteur) discussion Rel-16 NR\_IAB-Core

[R2-2006959](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006959.zip) Remaining details of UE capabilities for IAB AT&T discussion

[R2-2007980](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007980.zip) Correction on IAB-MT capability for TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1959 - F NR\_IAB-Core

[R2-2007981](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007981.zip) Correction on IAB-MT capability for TS 38.306 Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0400 - F NR\_IAB-Core

### 6.2.6 Other Corrections

E.g. 3x.304

[R2-2007982](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007982.zip) Miscellaneous corrections for TS 38.304 for IAB Huawei, HiSilicon CR Rel-16 38.304 16.1.0 0185 - F NR\_IAB-Core

- Ericsson think the NPN wording need to be enhanced.

- LG think NPN wording is better in 331 and we don’t need it here.

- Chair: Seems agreeable to remove it as proposed, but not clear whether further changes are needed. Can agree this now, or we can allow some more discussion to see if further improvement is needed.

* Change Proposal is agreed, can conside further changes (i.e. a revision) by email (RRC email discussion)

[R2-2007983](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007983.zip) Miscellaneous corrections for TS 36.304 for IAB Huawei, HiSilicon CR Rel-16 36.304 16.1.0 0812 - F NR\_IAB-Core

* agreed

## 6.3 NR-based Access to Unlicensed Spectrum

(NR\_unlic-Core; leading WG: RAN1; REL-16; started: Dec 18; Closed June 20; WID: RP-192926; SR; [RP-201141](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201141.zip); R1 and R2 are 100% Complete). Documents in this agenda item will be handled in a break out session.).

Email max expectation: 4 email threads

### 6.3.1 General and Stage 2 Corrections

Including incoming LSs, Wi or TS rapporteur inputs, etc.

[R2-2006503](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006503.zip) LS to RAN2 on clarification of RVID for the first transmission for CG-PUSCH (R1-2003074; contact: Qualcomm) RAN1 LS in Rel-16 NR\_unlic-Core To:RAN2

[R2-2006507](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006507.zip) LS to RAN2 on initial BWP for NR-U (R1-2004998; contact: Ericsson) RAN1 LS in Rel-16 NR\_unlic-Core To:RAN4 Cc:RAN2

[R2-2007450](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007450.zip) Clarification on the CAPC selection for MSG3 and MSGA PUSCH ZTE Corporation, Sanechips CR Rel-16 38.300 16.2.0 0277 - F NR\_unlic-Core

R2-2008028 Miscellaneous corrections for NR-U (Rapporteur) Qualcomm Incorporated CR Rel-16 38.331 16.1.0 1976 - F NR\_unlic-Core Late

### 6.3.2 User plane

[R2-2006549](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006549.zip) Remaining Issues on Stopping the Ongoing RA Procedure due to a Pending SR in NR-U vivo discussion

[R2-2006658](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006658.zip) Clarification on operations in a bundle of UL grants Samsung CR Rel-16 38.321 16.1.0 0768 - F NR\_newRAT-Core, NR\_unlic-Core

[R2-2007169](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007169.zip) Corrections on CG operation for NR-U Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0807 - F NR\_unlic-Core

[R2-2007188](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007188.zip) Correction to LBT SR cancellation Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0808 - F NR\_unlic-Core

[R2-2007453](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007453.zip) Clarifications in MAC for NR-U ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0823 - F NR\_unlic-Core

[R2-2007548](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007548.zip) Clarification on the transmission of LBT failure MAC CE on SCells Google Inc. CR Rel-16 38.321 16.1.0 0830 - F NR\_unlic-Core

[R2-2007729](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007729.zip) Further consideration on LBT failure cancellation regarding BWP switching ASUSTeK discussion Rel-16 NR\_unlic-Core

[R2-2007817](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007817.zip) Correction on 2-stepRA resource selection with semi-static channel access Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0838 - F NR\_unlic-Core

[R2-2007818](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007818.zip) Correction on prority of SR for consistent LBT failure Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0839 - F NR\_unlic-Core

[R2-2007819](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007819.zip) Correction on configured grant occasion detemination Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0840 - F NR\_unlic-Core

[R2-2007880](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007880.zip) Review of CG timers LG Electronics UK discussion Rel-16 NR\_unlic-Core

[R2-2007883](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007883.zip) NR-U revision LG Electronics UK CR Rel-16 38.321 16.1.0 0846 - F NR\_unlic-Core

[R2-2007892](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007892.zip) The operation of drx-RetransmissionTimerUL ASUSTeK CR Rel-16 38.321 16.1.0 0847 - F NR\_unlic-Core

### 6.3.3 Control plane

[R2-2007066](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007066.zip) searchSpaceSwitchingGroup handling Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1776 - F NR\_unlic-Core

[R2-2007067](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007067.zip) Guardbands corrections Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1777 - F NR\_unlic-Core

[R2-2007451](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007451.zip) RRC corrections for NR-U ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1843 - F NR\_unlic-Core

[R2-2007452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007452.zip) RRC clarficiations for NR-U ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1844 - F NR\_unlic-Core

[R2-2007596](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007596.zip) Remaining RRC issues Ericsson discussion NR\_unlic-Core

[R2-2007730](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007730.zip) Corrections on configuredGrantTimer ASUSTeK CR Rel-16 38.331 16.1.0 1889 - F NR\_unlic-Core

[R2-2007820](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007820.zip) Correction on ServingCellConfig Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1918 - F NR\_unlic-Core

[R2-2007821](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007821.zip) Correction on ssb-SubcarrierOffset in MIB Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1919 - F NR\_unlic-Core

[R2-2007822](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007822.zip) Correction on RACH Configuration Huawei, HiSilicon, Ericsson CR Rel-16 38.331 16.1.0 1920 - F NR\_unlic-Core

[R2-2007823](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007823.zip) Correction on ControlResourceSet Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1921 - F NR\_unlic-Core

R2-2007824 Correction on RSSI and CO measurement Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1922 - F NR\_unlic-Core Withdrawn

[R2-2008054](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008054.zip) Clarification on pusch-TimeDomainResourceAllocationList Samsung CR Rel-16 38.331 16.1.0 1982 - F NR\_unlic-Core, NR\_L1enh\_URLLC-Core

[R2-2008065](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008065.zip) Correction to the search space switching timer vivo CR Rel-16 38.331 16.1.0 1983 - F NR\_unlic-Core

## 6.4 NR V2X

(5G\_V2X\_NRSL-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Aug 20; WID: RP-200129; SR: RP-200431). Documents in this agenda item will be handled in a break out session

RP88e: RP Chair minuted summary: Regarding the RAN2 corrections work on V2X, I propose we minute that the items in the Intermediate Summary that were discussed this week in RAN can be discussed in RAN2 further: 1) Cross-RAT configuration, 2) Prioritization between uplink transmissions on Uu and sidelink transmissions on PC5.

Email max expectation: 10 email threads

### 6.4.1 General and Stage 2 corrections

Including incoming LSs, rapporteur inputs, etc.

[R2-2007307](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007307.zip) Miscellaneous corrections to 38.321 Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0813 - D 5G\_V2X\_NRSL-Core

[R2-2007868](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007868.zip) Stage-2 corrections on 38.300 vivo CR Rel-16 38.300 16.2.0 0288 - F 5G\_V2X\_NRSL-Core

[R2-2007920](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007920.zip) Correction for NR SL communication Samsung Electronics CR Rel-16 38.300 16.2.0 0290 - F 5G\_V2X\_NRSL-Core

### 6.4.2 Control plane corrections

Including outcome of email discussion [Post110-e][707][V2X] V2X UE capabilities (OPPO). CR rapporteur can provide miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company for small changes.

[R2-2006598](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006598.zip) Left issues on cross-RAT control of sidelink (38.331) OPPO, Samsung CR Rel-16 38.331 16.1.0 1758 - B 5G\_V2X\_NRSL-Core

[R2-2006599](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006599.zip) Left issues on cross-RAT control of sidelink (36.331) OPPO, Samsung CR Rel-16 36.331 16.1.1 4367 - B 5G\_V2X\_NRSL-Core

[R2-2006614](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006614.zip) Correction on the names of ueAssistanceInformationNR and UEAssistanceInformation CATT CR Rel-16 36.331 16.1.1 4350 - F 5G\_V2X\_NRSL-Core

[R2-2006620](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006620.zip) Correction to TS 38.304 CATT CR Rel-16 38.304 16.1.0 0175 - F 5G\_V2X\_NRSL-Core

[R2-2006621](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006621.zip) Correction on the SL QoS in TS 38.331 CATT CR Rel-16 38.331 16.1.0 1721 - F 5G\_V2X\_NRSL-Core

[R2-2006622](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006622.zip) Discussion on the Value Range of ul-PrioritizationThres and sl-PrioritizationThres CATT discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2006744](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006744.zip) Corrections on 38.331 CR for NR V2X cross RAT configuration ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1734 - D 5G\_V2X\_NRSL-Core

[R2-2006745](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006745.zip) CR on TS 38.331 for miscellaneous issues for NR V2X ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1735 - D 5G\_V2X\_NRSL-Core

[R2-2006875](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006875.zip) Correction to sidelink communication Google Inc. CR Rel-16 36.331 16.1.1 4360 - F 5G\_V2X\_NRSL-Core

[R2-2006876](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006876.zip) Correction to NR sidelink related information reporting Google Inc. CR Rel-16 38.331 16.1.0 1743 - F 5G\_V2X\_NRSL-Core

[R2-2006914](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006914.zip) Need for cross-RAT acknowledgement in V2X reconfigurations MediaTek Inc. discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2007074](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007074.zip) Corrections discarding segments of SIB 12 Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1778 - F 5G\_V2X\_NRSL-Core

[R2-2007075](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007075.zip) Corrections to discarding segments of SIB 28 Samsung Electronics Co., Ltd CR Rel-16 36.331 16.1.1 4368 - F 5G\_V2X\_NRSL-Core

[R2-2007079](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007079.zip) Corrections to V2X SIB acquisition Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1782 - F 5G\_V2X\_NRSL-Core

[R2-2007095](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007095.zip) Correction on Stored Sidelink Measurement Configuration Apple CR Rel-16 38.331 16.1.0 1785 - F 5G\_V2X\_NRSL-Core

[R2-2007096](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007096.zip) Correction on Cross-RAT OtherConfig Apple, InterDigital Inc. CR Rel-16 36.331 16.1.1 4369 - F 5G\_V2X\_NRSL-Core

[R2-2007193](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007193.zip) Addition of field description for single TX resource pool sidelink mode 1 to 38.331 for V2X Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1795 - A 5G\_V2X\_NRSL-Core

[R2-2007198](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007198.zip) Correction to TX resource pool sidelink mode 1 and 2 in 38.331 for V2X Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1796 - C 5G\_V2X\_NRSL-Core

[R2-2007206](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007206.zip) CR on TS 38.331 for remaining RB issues for NR V2X resource pool ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1798 - D 5G\_V2X\_NRSL-Core

[R2-2007227](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007227.zip) Some remaining aspects regarding V2X IRAT RAT signalling Samsung Telecommunications, OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2007228](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007228.zip) Corrections regarding NR CBR (V2X IRAT) measurements Samsung Telecommunications, OPPO CR Rel-16 36.331 16.1.1 4370 - F 5G\_V2X\_NRSL-Core

[R2-2007235](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007235.zip) On the number of TX resource pools for sidelink mode 1 Nokia, Nokia Shanghai Bell discussion Rel-16 38.331 5G\_V2X\_NRSL-Core

[R2-2007239](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007239.zip) Clarification on security for NR SL communication in TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1808 - F 5G\_V2X\_NRSL-Core

[R2-2007242](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007242.zip) Correction on cross-RAT V2X functionality in TS 36.331 Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4371 - F 5G\_V2X\_NRSL-Core

[R2-2007243](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007243.zip) Correction on cross-RAT V2X functionality in TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1810 - F 5G\_V2X\_NRSL-Core

[R2-2007244](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007244.zip) CR on security for NR SL communication in TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1811 - F 5G\_V2X\_NRSL-Core

[R2-2007245](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007245.zip) CR on SidelinkUEInformationNR reporting in TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1812 - F 5G\_V2X\_NRSL-Core

[R2-2007263](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007263.zip) Further RRC Issue on the presence "Cond CBR" sl-MaxTxPower in SL-PSSCH-TxParameters Nokia, Nokia Shanghai Bell discussion 5G\_V2X\_NRSL-Core

[R2-2007280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007280.zip) Correction to default value of field sl-X-Overhead Ericsson CR Rel-16 38.331 16.1.0 1824 - F 5G\_V2X\_NRSL-Core

[R2-2007281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007281.zip) Correction to sidelink fields in the inter-node RRC messages Ericsson CR Rel-16 38.331 16.1.0 1825 - F 5G\_V2X\_NRSL-Core

[R2-2007282](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007282.zip) Correction to the setting of empty SL RRC messages Ericsson CR Rel-16 38.331 16.1.0 1826 - F 5G\_V2X\_NRSL-Core

[R2-2007283](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007283.zip) Correction on LTE V2X configuration in the RRCReconfiguration Ericsson CR Rel-16 38.331 16.1.0 1827 - F 5G\_V2X\_NRSL-Core

[R2-2007284](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007284.zip) Sending of RRC reconfiguration complete message in SL crossRAT Ericsson CR Rel-16 38.331 16.1.0 1828 - F 5G\_V2X\_NRSL-Core

[R2-2007285](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007285.zip) Sending of RRC reconfiguration complete message in SL crossRAT Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2007286](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007286.zip) Sending of RRC reconfiguration complete message in SL crossRAT Ericsson CR Rel-16 36.331 16.1.1 4375 - F 5G\_V2X\_NRSL-Core

[R2-2007298](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007298.zip) Addition of the missing anchor carrier pre-configuration for NR SL communication in TS 36.331 Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4376 - F 5G\_V2X\_NRSL-Core

[R2-2007299](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007299.zip) CR on SL power control parameters in TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1829 - F 5G\_V2X\_NRSL-Core

[R2-2007383](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007383.zip) Corrections to Sidelink process Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0820 - F 5G\_V2X\_NRSL-Core

[R2-2007395](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007395.zip) Correction to transmission of MasterInformationBlockSidelink Ericsson CR Rel-16 38.331 16.1.0 1842 - F 5G\_V2X\_NRSL-Core

[R2-2007731](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007731.zip) Clarification on RRC reconfiguration failure for SL DRB addition ASUSTeK CR Rel-16 38.331 16.1.0 1890 - F 5G\_V2X\_NRSL-Core

[R2-2007732](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007732.zip) Clarification on SL DRB release ASUSTeK CR Rel-16 38.331 16.1.0 1891 - F 5G\_V2X\_NRSL-Core

[R2-2007786](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007786.zip) Clarification on RRC signaling/procedure for acknowledging cross-RAT SL configuration in current RRC Spec - Inexistence of “Issue 1” discussed by RAN plenary Huawei, CATT, Apple, ZTE Corporation, LG Electronics Inc., Intel Corporation, HiSilicon discussion 5G\_V2X\_NRSL-Core

[R2-2007848](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007848.zip) Miscellaneous corrections on V2X for TS 38.331 Samsung CR Rel-16 38.331 16.1.0 1928 - F 5G\_V2X\_NRSL-Core

[R2-2007852](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007852.zip) Miscellaneous corrections on TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1930 - F 5G\_V2X\_NRSL-Core

[R2-2007853](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007853.zip) Correction on the periodicity value for configured sidelink type 1 Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1931 - F 5G\_V2X\_NRSL-Core

[R2-2007854](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007854.zip) Correction on measurement quantity configuration for SL RSRP reporting Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1932 - F 5G\_V2X\_NRSL-Core

[R2-2007855](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007855.zip) Correction on missing SDAP header configuration in PC5 RRC signaling Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1933 - F 5G\_V2X\_NRSL-Core

[R2-2007856](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007856.zip) Correction on optionality of ueCapabilityRequestFilterSidelink Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1934 - F 5G\_V2X\_NRSL-Core

[R2-2007857](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007857.zip) Correction on the procedure for PC5 RRC release Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1935 - F 5G\_V2X\_NRSL-Core

[R2-2007866](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007866.zip) Sidelink synchronization ID Qualcomm Finland RFFE Oy draftCR Rel-16 38.331 16.1.0 5G\_V2X\_NRSL-Core Withdrawn

[R2-2007869](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007869.zip) 38.331 CR on cross-RAT signalling for NR V2X vivo CR Rel-16 38.331 16.1.0 1938 - F 5G\_V2X\_NRSL-Core

[R2-2007870](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007870.zip) 36.331 CR on cross-RAT signalling for LTE V2X vivo CR Rel-16 36.331 16.1.1 4415 - F 5G\_V2X\_NRSL-Core

[R2-2007871](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007871.zip) Miscellaneous corrections to 38.331 on SL operation vivo CR Rel-16 38.331 16.1.0 1939 - F 5G\_V2X\_NRSL-Core

[R2-2007872](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007872.zip) Remaining issue on SL/UL prioritization vivo CR Rel-16 38.331 16.1.0 1940 - F 5G\_V2X\_NRSL-Core

[R2-2007876](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007876.zip) 38.304 Correction on cell (re)selection for sidelink UE vivo CR Rel-16 38.304 16.1.0 0182 - F 5G\_V2X\_NRSL-Core

[R2-2007877](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007877.zip) 36.304 Correction on cell (re)selection for sidelink UE vivo CR Rel-16 36.304 16.1.0 0811 - F 5G\_V2X\_NRSL-Core

[R2-2007881](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007881.zip) Sidelink priority threshold Qualcomm Finland RFFE Oy draftCR Rel-16 38.331 16.1.0 5G\_V2X\_NRSL-Core

[R2-2007886](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007886.zip) Sidelink synchronization ID Qualcomm Finland RFFE Oy, Ericsson, Apple, Kyocera, ZTE, CATT, InterDigital, Lenovo, Motorola Mobility draftCR Rel-16 38.331 16.1.0 5G\_V2X\_NRSL-Core Late

[R2-2007908](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007908.zip) Miscellaneous corrections on TS 36.331 Huawei, Hisilicon CR Rel-16 36.331 16.1.0 4416 - F 5G\_V2X\_NRSL-Core

[R2-2007917](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007917.zip) Addition of the missing resource pool ID associated with each configured sidelink grant type1 Huawei, Hisilicon CR Rel-16 38.331 16.1.0 1943 - F 5G\_V2X\_NRSL-Core

[R2-2007921](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007921.zip) Correction for sidelink priority threshold (alternative 1) Samsung Electronics CR Rel-16 38.331 16.1.0 1944 - F 5G\_V2X\_NRSL-Core

[R2-2007922](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007922.zip) Correction for sidelink priority threshold (alternative 2) Samsung Electronics CR Rel-16 38.331 16.1.0 1945 - F 5G\_V2X\_NRSL-Core

[R2-2007923](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007923.zip) Correction to SL-ConfigDedicatedNR and SL-ScheduledConfig Samsung Electronics CR Rel-16 38.331 16.1.0 1946 - F 5G\_V2X\_NRSL-Core

[R2-2008037](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008037.zip) Corrections on synchronisation, timing offset signalling and Uplink/Downlink TDD configuration LG Electronics France CR Rel-16 38.331 16.1.0 1977 - F 5G\_V2X\_NRSL

[R2-2008050](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008050.zip) Corrections on sidelinkUEInformation transmission and SL mode 1 TX pool configuration LG Electronics France CR Rel-16 38.331 16.1.0 1981 - F 5G\_V2X\_NRSL

### 6.4.3 User plane corrections

CR rapporteur can provide miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company for small changes.

[R2-2006561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006561.zip) Corrections to UE behavior upon SL BWP deactivation vivo CR Rel-16 38.321 16.1.0 0760 - F 5G\_V2X\_NRSL-Core

[R2-2006568](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006568.zip) Correction on resource re-selection trigger vivo CR Rel-16 38.321 16.1.0 0761 - F 5G\_V2X\_NRSL-Core

[R2-2006585](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006585.zip) CR for left issues of NR V2X on MAC OPPO CR Rel-16 38.321 16.1.0 0795 - F 5G\_V2X\_NRSL-Core

[R2-2006613](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006613.zip) Consideration on the Priority of UL MAC CE CATT discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2006615](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006615.zip) Correction on the sidelink transmission information CATT CR Rel-16 38.321 16.1.0 0763 - F 5G\_V2X\_NRSL-Core

[R2-2006616](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006616.zip) Corrections on TS 37.324 CATT CR Rel-16 37.324 16.1.0 0017 - F 5G\_V2X\_NRSL-Core

[R2-2006617](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006617.zip) Correction on BSR procedure CATT CR Rel-16 38.321 16.1.0 0764 - F 5G\_V2X\_NRSL-Core

[R2-2006618](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006618.zip) Correction on the SR cancellation condition CATT CR Rel-16 38.321 16.1.0 0765 - F 5G\_V2X\_NRSL-Core

[R2-2006619](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006619.zip) Correction on the LCP procedure CATT CR Rel-16 38.321 16.1.0 0766 - F 5G\_V2X\_NRSL-Core

[R2-2006623](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006623.zip) Remaining Issue of the UL/SL Prioritization CATT discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2006704](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006704.zip) Corrections to 5G V2X with NR Sidelink LG Electronics France CR Rel-16 38.321 16.1.0 0773 - F 5G\_V2X\_NRSL

[R2-2006706](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006706.zip) Corrections to 5G V2X with NR Sidelink LG Electronics France CR Rel-16 36.321 16.1.0 1485 - F 5G\_V2X\_NRSL

[R2-2006739](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006739.zip) Discussion on remaining issues of NR UL-SL prioritisation ZTE Corporation, Sanechips discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2006740](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006740.zip) CR on TS 38.321 for UL-SL prioritization issues for NR V2X ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0776 - D 5G\_V2X\_NRSL-Core

[R2-2006741](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006741.zip) CR on TS 36.321 for UL-SL prioritization issues for NR V2X ZTE Corporation, Sanechips CR Rel-16 36.321 16.1.0 1486 - D 5G\_V2X\_NRSL-Core

[R2-2006742](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006742.zip) CR on TS 38.321 for issues related to NR V2X LCP ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0777 - D 5G\_V2X\_NRSL-Core

[R2-2006743](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006743.zip) CR on TS 38.321 for miscellaneous issues for NR V2X resource selection ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0778 - D 5G\_V2X\_NRSL-Core

[R2-2006762](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006762.zip) Discussion on setting of range parameter in SCI InterDigital, Apple, Ericsson, Qualcomm, Nokia, Mediatek, Fraunhofer HHI, Fraunhofer IIS, Convida Wireless discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2006763](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006763.zip) Corrections for setting of range parameter in SCI InterDigital, Apple, Ericsson, Qualcomm, Nokia, Mediatek, Fraunhofer HHI, Fraunhofer IIS, Convida Wireless CR Rel-16 38.321 16.1.0 0779 - F 5G\_V2X\_NRSL-Core

[R2-2006764](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006764.zip) Correction for Determining Need for Next Transmission for DG with HARQ Disabled InterDigital, Apple CR Rel-16 38.321 16.1.0 0780 - F 5G\_V2X\_NRSL-Core

[R2-2006765](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006765.zip) Miscellaneous Corrections on HARQ Process Operation InterDigital, Apple CR Rel-16 38.321 16.1.0 0781 - F 5G\_V2X\_NRSL-Core

[R2-2006766](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006766.zip) Corrections to HARQ-Based RLF at TX UE InterDigital, Apple CR Rel-16 38.321 16.1.0 0782 - F 5G\_V2X\_NRSL-Core

[R2-2006768](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006768.zip) Discussion on prioritization between UL and SL OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2006769](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006769.zip) Discussion on resource and HARQ process id of configured grant OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2006776](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006776.zip) Corrections to data inactivity monitoring considering SL logical channels Samsung Electronics Co., Ltd CR Rel-16 38.321 16.1.0 0783 - F 5G\_V2X\_NRSL-Core

[R2-2006818](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006818.zip) Discussion on HARQ related issues ZTE Corporation, Sanechips discussion 5G\_V2X\_NRSL-Core

[R2-2006819](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006819.zip) CR on TS 38.321 for HARQ issues for NR V2X ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0788 - D 5G\_V2X\_NRSL-Core

[R2-2006820](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006820.zip) CR on TS 38.321 for remaining HARQ issues for NR V2X ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0789 - D 5G\_V2X\_NRSL-Core

[R2-2006823](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006823.zip) CR on TS 38.321 for Sidelink grant issues for NR V2X ZTE Corporation, Sanehcips CR Rel-16 38.321 16.1.0 0790 - D 5G\_V2X\_NRSL-Core

[R2-2006877](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006877.zip) Corrections to SL-BSR truncation Ericsson, Qualcomm Incorporated CR Rel-16 38.321 16.1.0 0792 - F 5G\_V2X\_NRSL-Core

[R2-2007021](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007021.zip) Discussion on NR-V2X MAC left issues Fujitsu discussion Rel-16 5G\_V2X\_NRSL-Core R2-2004889

[R2-2007090](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007090.zip) Correction on SL-SCH MAC header Apple, InterDigital Inc. CR Rel-16 38.321 16.1.0 0797 - F 5G\_V2X\_NRSL-Core

[R2-2007091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007091.zip) Correction on UL/SL Prioritization procedures Apple, InterDigital Inc. CR Rel-16 38.321 16.1.0 0798 - F 5G\_V2X\_NRSL-Core

[R2-2007092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007092.zip) Correction on Sidelink resource selection procedures Apple CR Rel-16 38.321 16.1.0 0799 - F 5G\_V2X\_NRSL-Core

[R2-2007093](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007093.zip) Correction on Sidelink LCP procedure Apple CR Rel-16 38.321 16.1.0 0800 - F 5G\_V2X\_NRSL-Core

[R2-2007094](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007094.zip) Correction on Sidelink HARQ Process Apple, InterDigital Inc. CR Rel-16 38.321 16.1.0 0801 - F 5G\_V2X\_NRSL-Core

[R2-2007241](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007241.zip) Correction on ciphering and integrity functions for NR SL communication in TS 38.323 Huawei, HiSilicon CR Rel-16 38.323 16.1.0 0053 - F 5G\_V2X\_NRSL-Core

[R2-2007247](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007247.zip) RLF in absence of data Lenovo, Motorola Mobility discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2007287](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007287.zip) Prioritization between UL Uu and SL when priorities are not configured Ericsson CR Rel-16 38.321 16.1.0 0811 - F 5G\_V2X\_NRSL-Core

[R2-2007288](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007288.zip) Prioritization between UL Uu and SL when priorities are not configured Ericsson CR Rel-16 36.321 16.1.0 1493 - F 5G\_V2X\_NRSL-Core

[R2-2007289](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007289.zip) Prioritization between UL Uu and SL when priorities are not configured Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2007297](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007297.zip) Corrections to Sidelink HARQ entity Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0812 - D 5G\_V2X\_NRSL-Core

[R2-2007500](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007500.zip) Corrections on LCP procedure for NR V2X Lenovo (Beijing) Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2007640](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007640.zip) Sidelink type 2 groupcast reception upon member ID Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0831 - F 5G\_V2X\_NRSL-Core

[R2-2007648](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007648.zip) Correction to Sidelink mode 2 resource selection for retransmission Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0832 - F 5G\_V2X\_NRSL-Core

[R2-2007733](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007733.zip) Clarification on ciphering for Direct Security Mode Command message ASUSTeK CR Rel-16 38.323 16.1.0 0054 - F 5G\_V2X\_NRSL-Core

[R2-2007734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007734.zip) Clarification on PC5 QoS flow remapping ASUSTeK CR Rel-16 37.324 16.1.0 0018 - F 5G\_V2X\_NRSL-Core

[R2-2007735](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007735.zip) MAC Corrections for NR V2X ASUSTek CR Rel-16 38.321 16.1.0 0836 - F 5G\_V2X\_NRSL-Core

[R2-2007787](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007787.zip) Clarification on NR UL and SL transmission prioritization with pre-configured priority thresholds - Inexistence of “Issue 2” discussed by RAN plenary Huawei, HiSilicon discussion 5G\_V2X\_NRSL-Core

[R2-2007858](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007858.zip) Correction on the HARQ-based Sidelink RLF detection Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0842 - F 5G\_V2X\_NRSL-Core

[R2-2007873](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007873.zip) Support RLC Re-establishment vivo discussion

[R2-2007874](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007874.zip) Corrections to SL-BSR triggered by retxBSR-Timer expiry vivo CR Rel-16 38.321 16.1.0 0844 - F 5G\_V2X\_NRSL-Core

[R2-2007875](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007875.zip) Miscellaneous corrections for MAC vivo CR Rel-16 38.321 16.1.0 0845 - F 5G\_V2X\_NRSL-Core

[R2-2007878](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007878.zip) Corrections to the scope of PDU format for V2X vivo CR Rel-16 38.323 16.1.0 0055 - F 5G\_V2X\_NRSL-Core

[R2-2007879](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007879.zip) RACH for CSI reporting vivo discussion

[R2-2007900](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007900.zip) Resource reservation period Qualcomm Finland RFFE Oy draftCR Rel-16 38.321 16.1.0 5G\_V2X\_NRSL-Core

[R2-2007907](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007907.zip) Miscellaneous corrections to 38.321 for V2X Huawei, Hisilicon CR Rel-16 38.321 16.1.0 0850 - F 5G\_V2X\_NRSL-Core

[R2-2007909](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007909.zip) Correction on the MAC reset Huawei, Hisilicon CR Rel-16 38.321 16.1.0 0851 - F 5G\_V2X\_NRSL-Core

[R2-2007910](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007910.zip) Correction on HARQ feedback on PUCCH Huawei, Hisilicon CR Rel-16 38.321 16.1.0 0852 - F 5G\_V2X\_NRSL-Core

[R2-2007911](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007911.zip) Correction on MAC subheaders for SL-SCH Huawei, Hisilicon CR Rel-16 38.321 16.1.0 0853 - F 5G\_V2X\_NRSL-Core

[R2-2007912](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007912.zip) Correction on sidelink BSR Huawei, Hisilicon CR Rel-16 38.321 16.1.0 0854 - F 5G\_V2X\_NRSL-Core

[R2-2007913](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007913.zip) Correction on soft buffer handling for RX UE Huawei, Hisilicon CR Rel-16 38.321 16.1.0 0855 - F 5G\_V2X\_NRSL-Core

[R2-2007914](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007914.zip) Correction on NR UL and LTE SL prioritization Huawei, Hisilicon CR Rel-16 38.321 16.1.0 0856 - F 5G\_V2X\_NRSL-Core

[R2-2007915](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007915.zip) Correction on logical channel prioritization Huawei, Hisilicon CR Rel-16 38.321 16.1.0 0857 - F 5G\_V2X\_NRSL-Core

[R2-2007916](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007916.zip) Correction on resource (re)selection Huawei, Hisilicon CR Rel-16 38.321 16.1.0 0858 - F 5G\_V2X\_NRSL-Core

[R2-2007918](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007918.zip) Discussion on sidelink grant handling Huawei, Hisilicon discussion

[R2-2007919](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007919.zip) Discussion on the calculation of SL CG occasion Huawei, Hisilicon discussion

[R2-2007924](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007924.zip) Correction to C-DRX for NR SL communication Samsung Electronics CR Rel-16 38.321 16.1.0 0859 - F 5G\_V2X\_NRSL-Core

[R2-2007925](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007925.zip) Correction to Destination Index in SL-BSR MAC CE Samsung Electronics CR Rel-16 38.321 16.1.0 0860 - F 5G\_V2X\_NRSL-Core

[R2-2007926](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007926.zip) Correction to LCP procedures Samsung Electronics CR Rel-16 38.321 16.1.0 0861 - F 5G\_V2X\_NRSL-Core

[R2-2007927](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007927.zip) Correction to LTE Uu control for NR SL communication Samsung Electronics CR Rel-16 38.321 16.1.0 0862 - F 5G\_V2X\_NRSL-Core

[R2-2007928](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007928.zip) Correction to RNTI for V2X SL communication Samsung Electronics CR Rel-16 38.321 16.1.0 0863 - F 5G\_V2X\_NRSL-Core

[R2-2007929](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007929.zip) Correction to sidelink specific MAC reset Samsung Electronics CR Rel-16 38.321 16.1.0 0864 - F 5G\_V2X\_NRSL-Core

[R2-2007930](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007930.zip) Correction to MAC subheader for SL-SCH Samsung Electronics CR Rel-16 38.321 16.1.0 0865 - F 5G\_V2X\_NRSL-Core

[R2-2007931](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007931.zip) Correction to PSFCH reception Samsung Electronics CR Rel-16 38.321 16.1.0 0866 - F 5G\_V2X\_NRSL-Core

[R2-2007932](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007932.zip) Correction to SL BSR trigger event Samsung Electronics CR Rel-16 38.321 16.1.0 0867 - F 5G\_V2X\_NRSL-Core

[R2-2007933](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007933.zip) Correction to TX resource pool selection procedures Samsung Electronics CR Rel-16 38.321 16.1.0 0868 - F 5G\_V2X\_NRSL-Core

[R2-2007934](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007934.zip) Correction to TX resource selection check procedures Samsung Electronics CR Rel-16 38.321 16.1.0 0869 - F 5G\_V2X\_NRSL-Core

[R2-2007935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007935.zip) Miscelleneous corrections to NR SL communication Samsung Electronics CR Rel-16 38.321 16.1.0 0870 - F 5G\_V2X\_NRSL-Core

[R2-2007964](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007964.zip) Discussion on groupcast HARQ feedback without location Huawei, Hisilicon discussion

[R2-2008029](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008029.zip) CR to 38.321 on SL HARQ ACK transmission LG Electronics France CR Rel-16 38.321 16.1.0 0875 - F 5G\_V2X\_NRSL

### 6.4.4 UE capabilities

Including outcome of email discussion [Post110-e][707][V2X] V2X UE capabilities (OPPO). Please contact / coordinate with CR rapporteur for small changes.

[R2-2006584](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006584.zip) [Draft] LS on V2X UE capability OPPO LS out Rel-16 5G\_V2X\_NRSL-Core To:RAN1, RAN4 Late

[R2-2006586](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006586.zip) Summary of [Post110-e][707][V2X] V2X UE capabilities (OPPO) OPPO discussion Rel-16 5G\_V2X\_NRSL-Core Late

[R2-2006587](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006587.zip) Draft 38.331 CR for V2X UE capability (for RAN2 capability) OPPO draftCR Rel-16 38.331 16.1.0 5G\_V2X\_NRSL-Core Late

[R2-2006588](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006588.zip) Draft 38.306 CR for V2X UE capability (for RAN2 capability) OPPO draftCR Rel-16 38.306 16.1.0 5G\_V2X\_NRSL-Core Late

[R2-2006589](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006589.zip) Draft 38.331 CR for V2X UE capability (for RAN1/RAN4 capability) OPPO draftCR Rel-16 38.331 16.1.0 5G\_V2X\_NRSL-Core Late

[R2-2006590](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006590.zip) Draft 38.306 CR for V2X UE capability (for RAN1/RAN4 capability) OPPO draftCR Rel-16 38.306 16.1.0 5G\_V2X\_NRSL-Core Late

[R2-2006591](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006591.zip) 36.331 CR for V2X UE capability OPPO CR Rel-16 36.331 16.1.0 4349 - B 5G\_V2X\_NRSL-Core Late

[R2-2006592](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006592.zip) 36.306 CR for V2X UE capability OPPO CR Rel-16 36.306 16.1.0 1777 - B 5G\_V2X\_NRSL-Core Late

[R2-2007240](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007240.zip) Correction on band filtering function in capability exchange in PC5 RRC Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1809 - F 5G\_V2X\_NRSL-Core

[R2-2007252](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007252.zip) Reducing the signalling of peer UE capability transfer in unicast sidelink Nokia, Nokia Shanghai Bell discussion 5G\_V2X\_NRSL-Core

## 6.5 NR Industrial Internet of Things (IoT)

(NR\_IIOT-Core; leading WG: RAN2; REL-16; started: Mar 19; Completed: Jun 20; WID: RP-200797; SR: RP-200796)

Email max expectation: 5 email threads

### 6.5.1 General and Stage 2 corrections

Incoming LS

[R2-2006505](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006505.zip) Reply LS on Intra-UE Prioritization R1-2004899; contact: LGE) RAN1 LS in Rel-16 NR\_IIOT-Core To:RAN2

* Noted

[R2-2006509](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006509.zip) LS on Intra-UE Prioritization for data with different priorities (R1-2005078; contact: vivo) RAN1 LS in Rel-16 NR\_IIOT-Core To:RAN2

- vivo think this is already consistent w R2 TS.

- ZTE wonder if this measn that ongoing transmission cannot be canceled.

- vivo think the cancel can only be done for CG CG.

- Ericsson think it is not clear what the word cancel transmission means (in the conclusion).

- Apple agrees that this is unclear, another Q is whether we can R15 version of grant prioritization? CATT think we have R15 behaviour when both have equal priority, otherwise the respective priority applies.

- Nokia think this is resolved in MAC already, as the MAC text refer to “grants whose PUSCH can be transmitted”. Samsung agres in MAC there is no issue with this. CATT agrees that MAC text is generic enough.

- LG agrees the current text is ok, and the result is that MAC shall not generate overlapping second PDU in many cases. The only case when MAC shall generate such PDU is CG CG collision with second PDU of higher priority than the first. Apple would like to clarify the behaviour to be that MAC never generates an overlapping MAC PDU.

- MTK wonder if for overlapping grants, if MAC generates a PDU but the priority is not according to expected (by L1), will L1 send it or not? (or will L1 wait for the “other” one). Vivo think that once PUSCH PDU is prepared L1 will transmit it (if no collision). Ericsson agrees with this unclarity.

- Oppo wonder whether MAC take into account L1 priority in collision cases CDDG? Samsung think that if same priority then R15 behaviour, and then if LCH based prioritization is configured, then MAC will prioritize acc to Logical channel priority. ZTE think there is a paper on this.

- CATT think the Questions by Oppo and MTK are key, and it is important that L1 follows MAC, but this is already clear in L1 TS. Lenovo agrees that L1 has no issue as long as MAC just generates one PDU. Huawei would like to double-check the L1 behaviour.

- LG think that for CGDG collision there is no case where a second PDU can pre-empt transmission of a first PDU, and a second PDU shall then not be generated.

- ZTE think the current MAC is ok as is. Lenovo agrees.

- Samsung think L1 TS is clear, and L1 will just transmit the PDU it received from MAC.

* Noted

[R2-2006518](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006518.zip) Response LS on Network Coordination for UL PDCP Duplication (R3-204168; contact: Nokia) RAN3 LS in Rel-16 NR\_IIOT-Core To:RAN2

- Nokia think we cant do anything anyway. We can rely on implementation.

- ZTE think no one want to change anything.

- CATT agrees this was discussed offine and the majority want to keep behaviour.

- Nokia think this will not be re-opened in R17 either, as there is no objective.

- LG think the UE will anyway follow the received MAC CE.

* Noted

DC+CA duplication clarifications

* [AT111-e][043][IIOT] Stage 2, DC CA duplication clarifications (Nokia)

Scope: take into account online discussion, Treat R2-2006918, 6919, 7133, 7891, 8056, 6637, 7138, 7387, 7149, 7150, Determine agreeable parts. Agree CRs

Deadline: Aug 26 0900 UTC. Intermediate deadlines by Rapporteur if needed.

Treat on-line first

[R2-2006917](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006917.zip) LCH Mapping Restriction issues with DC+CA PDCP Duplication Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IIOT-Core

DISCUSSION

- Samsung agree with all proposals.

- Ericsson agree with 1 and 2, but for 3, there are more cases to consider.

e.g.) when 3 CA legs are configured, and one is deactived, the restriction should be lifted as well. LG think that in this case the restriction shall not be lifted for the 2 remaining and for the 1 deactived LCH it will not be used so there is no issue. Ericsson think the issue is that there will still be data in the L2 buffers for the deactived LCH, and this will cause issues on activation. Apple think the transmission can continue until buffers are empty. Nokia think after deactivated we can still keep restriction, and likely the data can be transmitted anyway. Mediatek think this is not an issue if the serving cell is still active, but timers can handle corner cases.

- vivo thikn 2 need to be complemented, such that if all CA legs are deactivated, CA duplication is deactivated. Nokia don’t understand the point as duplication no longer exists

- Oppo think one case is missing, if 3 legs are configured to a CG and all are deactivated then, duplication restriction should be lifted. For DC duplication, if a CG has a single logical channel and this leg is deactiveated, then restriction should be kept. Nokia think there is no issue to resolve at all on this. Huawei think that for this second issue, the cell restriction can be configured for different purpose, but think the issue might not be there, but this may be the behaivour already. Nokia agrees, they are served by different MAC entities. MTK think that wil Cell groups with zero legs ther eis no issue, there will be no transmissions.

- LG think this is simple, if there are > 1 LCH active for duplication the restrictions applies, and if =1 then restriction shall be lifted.

- Apple Agrees with LG. Nokia as well. Huawei agrees as well. Mediatek agrees as well. Lenovo agrees as well.

- CATT think that R15 behaivour is different. Nokia think that we just lift restriction in the cell group for which the condition applies, not for other cell groups (which may have CA duplication as well). Nokia think this case didn’t exist in R15. LG agrees, and a restriciton is just for one MAC entity. Intel agrees as well. Huawei also agrees with Nokia, and think the proposals seem consistent with r15. CATT still think there is a difference.

- Intel think that if PDCP duplication is deactived then the remaning data is discarded. LG think that for segments of a PDU for which transmission has started will continue, they are not discarded. Huawei think this data buffering is not an issue.

- vivo still wonder what happens if also the last leg is deactived, shall the cell restriction be restored or not? Based on given comments, Chair think this it not the key point and can be discuss when discussing the CR(s). Huawei agrees this can be discussed. Lenovo thikn current spec is clear, the R15 behaviour when CA duplication is deactivated (altogether).

- Samsung think MAC TS should also be updated. Nokia agrees.

- OPPO think we can have a deactived leg that is used for split bearer transmission. Nokia think that we only apply split bearer operation when the whole duplication is deactivated. Nokia think that for split bearer, the restriction does not apply at all, and Nokia thikn this is the current behavior. ZTE agrees with Nokia, and think R16 the situation is indeed different. We can discuss in detail by email. Chair think indeed if we find problems with this they can be addressed by email. LG think current specification is crystal clear.

- Nokia and Huawei confirms the intention that these proposals only apply when CA duplication is configured.

- Ericsson wonder if a timer can resolve the buffering. MTK think that for SDUs, they are immediately discarded, and for sgements, also for RLC UM there are timers.

* P1, P2, P3 are agreed (can still take into accont additional aspects acc to discussion above by email)
* CR for 38300 (6918 is the baseline), 38321 (6919 is the baseline) by email.

[R2-2006918](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006918.zip) Stage-2 CR for clarifications of DC+CA PDCP Duplication Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.2.0 0263 - F NR\_IIOT-Core

3 docs moved from 6.5.4.1:

[R2-2007133](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007133.zip) Corrections on differentiating CA and DC duplication Ericsson discussion Rel-16 NR\_IIOT-Core

[R2-2007891](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007891.zip) 38300 CR Corrections on Packet Duplication LG Electronics Inc. CR Rel-16 38.300 16.2.0 0289 - F NR\_IIOT-Core

[R2-2008056](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2008056.zip) Cell Restriction Lifting in CA+DC Duplication Samsung discussion Rel-16 NR\_IIOT-Core

[R2-2006637](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2006637.zip) Clarify Packet Duplication in 38.300 CATT CR Rel-16 38.300 16.2.0 0257 - F NR\_IIOT-Core

[R2-2007138](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007138.zip) Consideration on LCH mapping restriction when duplication deactivation OPPO discussion Rel-16 NR\_IIOT-Core

[R2-2007387](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007387.zip) Clarification on definition of DC+CA duplication Huawei, HiSilicon CR Rel-16 38.300 16.2.0 0276 - F NR\_IIOT-Core

[R2-2007149](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007149.zip) Discussion on CA duplication and DC+CA duplication vivo discussion

[R2-2007150](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007150.zip) 38.300 Clarification on relationship between PDCP duplication and SCell activation/deactivation vivo CR Rel-16 38.300 16.2.0 0269 - F NR\_IIOT-Core

### 6.5.2 RRC Corrections

Can treat by email, however, PDCP duplication should await stage2 first

* [AT111-e][031][IIOT] RRC Corrections (Ericsson)

Scope: Treat R2-2006888, 6710/6711, 6828, 6727, 7142/7151, 7388. Determine agreeable parts in a first phase. Agree CRs in a second phase

Deadline: Aug 26 0900 UTC. Intermediate deadlines by Rapporteur if needed.

Miscellaneous

[R2-2006888](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006888.zip) Miscellaneous RRC corrections for NR IIoT Ericsson, Samsung CR Rel-16 38.331 16.1.0 1747 - F NR\_IIOT-Core

SPS CG

[R2-2006710](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006710.zip) Discussion about the misalignment of the unit of SPS periodicities Huawei, HiSilicon discussion Rel-16 NR\_IIOT-Core Withdrawn

[R2-2006711](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006711.zip) Correction on the unit of extended SPS periodicities Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1732 - F NR\_IIOT-Core

[R2-2006828](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006828.zip) Correction on field description of configuredGrantConfig and SPS-Config Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1740 - F NR\_IIOT-Core

EHC

[R2-2006727](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006727.zip) Correction on field description of ethernetHeaderCompression Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1733 - F NR\_IIOT-Core

PDCP duplication

[R2-2007142](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007142.zip) A clarification of pdcp-Duplication field OPPO CR Rel-16 38.331 16.1.0 1790 - F NR\_IIOT-Core

[R2-2007151](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2007151.zip) 38.331 Clarification on pdcp-Duplication IE vivo CR Rel-16 38.331 16.1.0 1791 - F NR\_IIOT-Core

[R2-2007388](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007388.zip) Correction on configuration of PDCP duplication Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1841 - F NR\_IIOT-Core

### 6.5.3 MAC Corrections

Intra UE prioritisation

Treat on-line first

* [AT111-e][044][IIOT] Intra UE prioritization (Apple)

Scope: Determine agreeable parts (before CRs), take into account on-line outcome. Agree CRs and LS out. Treat R2-2006920, 7127, 7237, 8058, 7106, 7107, 7108

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

[R2-2007131](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007131.zip) Corrections for intra-UE prioritization Ericsson discussion Rel-16 NR\_IIOT-Core

DISCUSSION

P1

- CATT think this should never happen. The text we added last meting shold cover this.

- LG support P1 and P3. LG think cancellation is not predictable, and think we need some rule to handle this.

- MTK has some sympathy, and think the current text do not cover this text.

- Apple also support P1 and P3. Apple wonder if MAC always deliver PDU. Samsung think it depends on scenario, for CGCG it is up to UE impl,

- Samsung think for this case, we need to do something in MAC. Support P1

- vivo also support P1, and think this can happen in reality.

- Oppo support P1 but wonder how MAC can know this. Oppo think L1 can signal to MAC.

- Lenovo think p1 is needed. Sony agrees.

- CATT think we should ask R1 if this can happen,

P2

- vivo think the L1 text looks like UE is madated to transmit, but the text is not completely correct. We can send an LS on this point. Huawei think UL skip can be supported in R15 but the L1 behaviour is not specified, we can wait for R1 progress, and another LS can make the discussion complex.

- Samsung think UL skip is implemented in MAC and if the L1 has nothing to send so it works. L1 problems can be resolved in R1 no need for LS. QC think this is not a big issue and R1 can fix this. Ericsson think we should be cautious and ask if this is supported, we don’t need to ask R1 to change anything. Apple also think an LS is not needed.

- Nokia think L1 will process whatever is delivered, but are ok to send an LS. Oppo agrees with Nokia, but also think an LS can be sent, and Oppo think we can ask slightly more. Lenovo also think L1 shall process whatever is gets, but are ok to send an LS.

- Sony understand that for DG, the UE always need to transmit something, and it triggeres retransmissions as well. When there is a collision this might be a new case, and we should send an LS to be clear.

- MTK think everyone agrees on the behaviour, and think it is good to check with R1.

P3

- Oppo support P3.

- QC think this is not in the TP, and the TP is OK.

- Samsung are also ok with the TP, but proposal 3 as is doesn’t need to be agreed.

TP

- Huawei think the first change can be merged with the line before it.

* If the corresponding MAC PDU of a configured uplink grant has been delivered to PHY but cancelled by a high PHY-priority index PUCCH transmission as specified in clause 9 of TS 38.213, this uplink grant is a de-prioritized uplink grant.
* Send an LS to RAN1 to ask if the scenario is supported: In the collision scenario between CG and DG and only one transport block of either grant is delivered to PHY, PHY can transmit on the grant for which a transport block is delivered and skip the transmission on the other grant.
* p3 as reflected in the TP is agreed
* Continue by email [044], LS and CR.

[R2-2008057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008057.zip) Issue on independent configuration of intra-UE prioritization Samsung discussion Rel-16 NR\_IIOT-Core

- vivo think we can have network config restrictions so there is no such case.

- LG think this is not needed, MAC will process every grant. Samsung think that L1 assumes one PDU is delivered, if two are delivered L1 will send the last one.

- Nokia have some sympathy but think there is the possibility to choose the grant with higher L1 priority.

- Apple think that we should restrict the configuration, can be ok with a note. Lenovo support to have the note.

- CATT doesn’t support the note, CATT think that if lch-prioritzation is not configured then behaviour should be R15, i.e. expect that CG are non-overlapping. Samsung think this is not acc to previous agreements but think that could resolve, think such restriction would need ot be in Stage-2 etc. Huawei agrees with CATT.

- QC support the note, it seems simpler. MTK agrees.

- ZTE think this is an abnormal case.

- Ericsson think that the network cannot avoid this, it would be too restrictive. The note is needed, and there are already similar note in the LTE TS.

- Chair: Can we agree to the Note? LG: cannot accept the note.

- Chair: it seems there is not completely consistent view on how it works. Only LG think the proposed Note contradicts intended behaviour. However, as it is a note it might not be urgent.

* postponed

[R2-2008597](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008597.zip) Report of Offline 044: Intra UE Prioritization Apple Inc.

Online late CB:

Apple indicate that P3, 5a, 5b, 9 are controversial and are good to treat on-line

P3

- CATT think the majority want to go for UE implementation, but CATT think that in this version of the TS there is no other choice than the network avoids. UE impl will require TS update. CATT think that might be NBC.

- Huawei also think we should not add new behaviours.

- LG think multiple CG was introduced in R16 and think network cannot completely avoid collisions, and the second bullet is sufficient.

- Ericsson think we have a new case for R16, and we need new behaviour to cover the new case also when neither L1 nor L2 prioritization is configured. Ericsson think these are separate independent capabilities. Samsung agrees with ericsson, and think the multi-CG was introduced to support TSN, and is separate to intra-UE-prioritization.

P5, 5a, 5b

- LG think the situation is changed since 109, and now it seems to not make sense to just use one, and not the other.

- Chair think this may be done later, as configuration restrictions and bundling of UE capabilities can be added later. MTK agrees this is not urgent.

* For the case where both LCH and PHY based prioritization are not configured, it is up to UE implementation on how overlapped configured grants are treated at MAC and delivered to PHY (UE should try to choose one)
* Postpone the discussion on additional conditions for Phy Priority and L2 priority feature (assume this can be added later).

[R2-2008058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008058.zip) Priority of Uplink Grant Samsung

Online late CB:

- LG think the current TS is clear, and no majority support. Can be done next meeting. Huawei also think this text is clear, and is used in LTE.

- Samsung think the main unclarity in the current text is about “is multiplexed” and “can be multiplexed”. Samsung think the TP itself can be simplified.

- Chair think that we can indeed do clarifications now, but we can also wait (but not too long).

* Not agreed (for now), clarification can still be considered at next meeting.

[R2-2008518](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008518.zip) [draft]LS on Intra UE Prioritization Scenario Ericsson LS out

Online late CB:

* LS is approved in R2-2008599

Moved from 6.5.5

[R2-2006920](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006920.zip) Remaining issues on Intra-UE prioritization Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_IIOT-Core

[R2-2007127](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2007127.zip) Handing of inconsistency between PHY-based and LCH-based prioritization configuration China Telecommunications discussion

[R2-2007137](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2007137.zip) Consideration on intra-UE prioritization with same PHY priority OPPO discussion Rel-16 NR\_IIOT-Core

[R2-2008058](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2008058.zip) Priority of Uplink Grant Samsung discussion Rel-16 NR\_IIOT-Core

[R2-2007106](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2007106.zip) Clarifications on intra UE prioritization - capability and configuration Apple discussion Rel-16 38.321 NR\_IIOT-Core

[R2-2007107](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2007107.zip) On conflicting scenarios for LCH and PHY prioritization Apple discussion Rel-16 38.321 NR\_IIOT-Core

[R2-2007108](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2007108.zip) Modifications for LCH and PHY prioritization scenarios Apple CR Rel-16 38.321 16.1.0 0802 - F NR\_IIOT-Core

MAC Support for PDCP Duplication

* [AT111-e][032][IIOT] MAC support for PDCP duplication (ZTE)

Scope: Multi-entry MAC CE: Use R2-2007132 as baseline, can treat R2-2006698 and 6726 to bring in additional aspects, if any, Treat R2-2007390. Activation Deactivation: Treat R2-2007531,6600 (Take into account on-line discussion).

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

Multiple entry CG MAC CE

[R2-2007132](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007132.zip) Corrections for Multiple Entry Configured Grant Confirmation MAC CE Ericsson, Samsung discussion Rel-16 NR\_IIOT-Core

[R2-2006698](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2006698.zip) Correction of IIoT in 38.321 CATT CR Rel-16 38.321 16.1.0 0772 - F NR\_IIOT-Core

[R2-2006726](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2006726.zip) Correction on the term of configuredGrantConfigList Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0775 - F NR\_IIOT-Core

[R2-2007390](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007390.zip) Correction on construction of Multiple Entry Configured Grant Confirmation MAC CE Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0822 - F NR\_IIOT-Core

Activation Deactivation

[R2-2007531](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007531.zip) Considerations on the Duplicagtion RLC ativation/deactivation MAC CE ZTE Corporation, Sanechips discussion Rel-16 NR\_IIOT-Core

[R2-2006919](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2006919.zip) MAC CR for clarifications of DC+CA PDCP Duplication Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0793 - F NR\_IIOT-Core

[R2-2006600](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2006600.zip) Clarification on Duplication RLC Activation/Deactivation MAC CE vivo CR Rel-16 38.321 16.1.0 0762 - F NR\_IIOT-Core

* [AT111-e][033][IIOT] MAC Corrections II (Samsung)

Scope: HARQ PID for SPS: Treat R2-2006712/7527 (related to RRC discussion), and R2-2007136. UE autonoumous retransmission: Treat R2-2007147, 7530, 6863, 7389, 8055

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

HARQ PID for SPS

[R2-2006712](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2006712.zip) Correction on the calculation of HARQ Process ID for SPS Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0774 - F NR\_IIOT-Core

[R2-2007527](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2007527.zip) CR on 38.321 for SPS resources and HARQ process ID calculation ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0828 - F NR\_IIOT-Core

[R2-2007136](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2007136.zip) Clarification on HARQ process ID determination for SPS OPPO, Samsung CR Rel-16 38.321 16.1.0 0804 - F NR\_newRAT-Core, NR\_IIOT-Core

UE autonomous retransmissions

[R2-2007147](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2007147.zip) UE autonomous retransmission considering the processing time vivo,Samsung, Lenovo CR Rel-16 38.321 16.1.0 0805 - F NR\_IIOT-Core

[R2-2007530](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2007530.zip) Considieration on the lack of time to process the autonomous transmission ZTE Corporation, Sanechips discussion Rel-16 NR\_IIOT-Core

RACH collissions

[R2-2006863](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006863.zip) CR to PUSCH duration comparision with MSGA transmission Fujitsu CR Rel-16 38.321 16.1.0 0791 - F NR\_IIOT-Core

[R2-2007389](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007389.zip) Correction on resource overlapping with grants addressed to T-C-RNTI Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0821 - F NR\_IIOT-Core

Other

[R2-2008055](file:///C:\3GPP%20meetings\RAN2\2020\TSGR2_111-e\docs\R2-2008055.zip) Miscellaneous corrections for IIOT MAC Samsung CR Rel-16 38.321 16.1.0 0876 - F NR\_IIOT-Core

### 6.5.4 PDCP Corrections

#### 6.5.4.1 Duplication

#### 6.5.4.2 Ethernet Header Compression

Treat on-line first

* [AT111-e][034][IIOT] EHC Corrections (Samsung)

Scope: Take into account on-line outcome, Treat R2-2008044, 6728, 8030, 8034, 8035

Determine agreeable parts, Agree CRs

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

LTE EHC for Split and LWA DRBs

[R2-2008036](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2008036.zip) LTE EHC configuration for split and LWA DRBs Samsung discussi

- LG support, vivo as well.

* EHC is not supported for split and LWA DRBs.

[R2-2008044](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2008044.zip) CR on LTE EHC configuration Samsung CR Rel-16 36.331 16.1.1 4422 - F NR\_IIOT-Core

Context overwrite

[R2-2006725](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006725.zip) Discussion about the decompression failure caused by context overwriting in EHC Huawei, HiSilicon discussion Rel-16 NR\_IIOT-Core

DISCUSSION

- LG think there may be issues with out-of-order delivery so this should be avoided. Vivo agrees. Samsung also agrees.

- MTK are not sure there is a problem, and think out-of-order is important for URLLC. Oppo think there is no issues, and think implementation can avoid this. Nokia also think this is an implementation issue, no change needed. Sony agrees that out-of-order delivery shall be supported. QC agrees 1 is not acceptable.

- Chair: Seems 3 may be the way an implementation could resolve this.

- Chair: no consensus to change anything in the TS.

* Noted

Out-of-order delivery

Moved from 6.5.4:

[R2-2006728](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2006728.zip) Correction on receive opearation when both EHC and out-of-order delivery are configured for a DRB Huawei, HiSilicon CR Rel-16 38.323 16.1.0 0050 - F NR\_IIOT-Core

[R2-2008030](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2008030.zip) EHC decompression failure at LTE PDCP re-establishment Samsung discussion NR\_IIOT-Core

[R2-2008034](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2008034.zip) CR on LTE PDCP re-establishment when t-Reordering is used Samsung CR Rel-16 36.323 16.1.0 0290 - F NR\_IIOT-Core

Withdrawn

[R2-2008035](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2008035.zip) LTE EHC configuration for split and LWA DRBs Samsung discussion Withdrawn

### 6.5.5 Other

Not Treated:

[R2-2007148](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\docs\R2-2007148.zip) SFN tracking for the reference time vivo CR Rel-16 38.300 16.2.0 0268 - F NR\_IIOT-Core

## 6.6 NR Positioning Support

(NR\_pos-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Jun 20; WID: [RP-200218](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200218.zip), SR: [RP-201342](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201342.zip)). R2 and R1 parts are 100% complete.

(NR TEI16 Positioning)

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

Email max expectation: 5 email threads

### 6.6.1 General and Stage 2 corrections

Including incoming LSs, Including impact to 36.305 and 38.305. Stage 2 corrections should be discussed with the specification rapporteur before submission.

[R2-2006522](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006522.zip) Reply LS on Aperiodic SRS (R3-204379; contact: Intel) RAN3 LS in Rel-16 NR\_pos-Core To:RAN2 Cc:RAN1

[R2-2006523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006523.zip) LS on mapping of PosSIB(s) to Area(s) (R3-204380; contact: Huawei) RAN3 LS in Rel-16 NR\_pos-Core To:RAN2

[R2-2006841](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006841.zip) Signalling sequence for UL SRS Configuration Ericsson discussion Rel-16 38.305

[R2-2007630](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007630.zip) Correction to SUPL support for NR positioning methods Qualcomm Incorporated CR Rel-16 38.305 16.1.0 0028 - F NR\_pos-Core

[R2-2007828](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007828.zip) DraftCR to Stage-2 for gNB and LMF information transfer Huawei, HiSilicon CR Rel-16 38.305 16.1.0 0029 - F NR\_pos-Core

[R2-2007829](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007829.zip) Text proposal on stage2 spec for aperiodic SRS Huawei, HiSilicon CR Rel-16 38.305 16.1.0 0030 - F NR\_pos-Core

[R2-2007830](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007830.zip) TP for POSITIONING INFORMATION REQUEST Huawei, HiSilicon CR Rel-16 38.305 16.1.0 0031 - F NR\_pos-Core

[R2-2007831](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007831.zip) Miscellaneous correction to stage2 specification Huawei, HiSilicon CR Rel-16 38.305 16.1.0 0032 - F NR\_pos-Core

### 6.6.2 RRC corrections

Including impact to 36.306, 36.331 and 38.331.

[R2-2006544](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006544.zip) Remaining issues on measurement gap for NR positioning vivo discussion NR\_pos-Core

[R2-2006664](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006664.zip) Correction on 38.331 to capture agreements of area scope for posSIB validity CATT CR Rel-16 38.331 16.1.0 1726 - F NR\_pos-Core

[R2-2006755](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006755.zip) Correction on on-demand SI in RRC\_CONNECTED CATT CR Rel-16 38.331 16.1.0 1736 - F NR\_pos-Core

[R2-2006844](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006844.zip) Addition of extension marker for positioning SI broadcast status Ericsson CR Rel-16 38.331 16.1.0 1741 - F NR\_pos-Core

[R2-2006926](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006926.zip) Measurement gaps for PRS-based measurements Ericsson CR Rel-16 38.331 16.1.0 1754 - B NR\_pos-Core

[R2-2006942](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006942.zip) Minor corrections and update for RRC Positioning Ericsson CR Rel-16 38.331 16.1.0 1757 - F NR\_pos-Core

[R2-2007076](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007076.zip) Corrections to acquisition of posSIB(s) in RRC\_CONNECTED Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1779 - F NR\_pos-Core

[R2-2007078](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007078.zip) Corrections to handing posSIB-MappingInfo in received SIB1 Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1781 - F NR\_pos-Core

[R2-2007547](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007547.zip) Corrections to unused field nr-CarrierFreq and misalignment between LPP and RRC Samsung Electronics Romania CR Rel-16 38.331 16.1.0 1860 - F NR\_pos-Core

R2-2007581 Summary of the AI 6.6.2 for positioning RRC correction Huawei, HiSilicon discussion Late

[R2-2007832](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007832.zip) Introduction of PRS mesurement gap Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1925 - F NR\_pos-Core

[R2-2007837](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007837.zip) Correction on PRS mesurement gap capability Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0393 - F NR\_pos-Core

### 6.6.3 LPP corrections

Including impacts to UE capabilites

[R2-2006543](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006543.zip) Correction of DL-PRS-NumSymbols vivo discussion NR\_pos-Core

[R2-2006546](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006546.zip) Discussion on remaining issues on LPP vivo discussion NR\_pos-Core

[R2-2006663](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006663.zip) Correction on 37.355 to capture agreements of area scope for posSIB validity CATT CR Rel-16 37.355 16.1.0 0262 - F NR\_pos-Core

[R2-2006847](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006847.zip) Need of reference TRP in the TRP-LocationInfo IE for UE-based assistance data distribution efficiency Ericsson discussion Rel-16 37.355

[R2-2006949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006949.zip) Handling on RAN1 positioning related capabilities Intel Corporation discussion Rel-16 NR\_pos-Core

[R2-2006950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006950.zip) Capture RAN1 positioning related capabilities Intel Corporation CR Rel-16 37.355 16.1.0 0263 - F NR\_pos-Core

[R2-2007632](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007632.zip) Addition of missing SRS for Positioning capabilities Qualcomm Incorporated CR Rel-16 37.355 16.1.0 0264 - F NR\_pos-Core

[R2-2007634](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007634.zip) Assistance data sharing and priority for measurements Qualcomm Incorporated CR Rel-16 37.355 16.1.0 0265 - F NR\_pos-Core

[R2-2007635](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007635.zip) Addition of missing padding rule for initial counter c0 Qualcomm Incorporated CR Rel-16 37.355 16.1.0 0266 - F LCS\_LTE\_acc\_enh-Core, NR\_pos-Core

[R2-2007833](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007833.zip) Correction of the SRS capability in LPP Huawei, HiSilicon CR Rel-16 37.355 16.1.0 0267 - F NR\_pos-Core

[R2-2007834](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007834.zip) Correction on SignalMeasurementInformation Huawei, HiSilicon CR Rel-16 37.355 16.1.0 0268 - F NR\_pos-Core

[R2-2007835](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007835.zip) Correction on ProvideAssistantData Huawei, HiSilicon CR Rel-16 37.355 16.1.0 0269 - F NR\_pos-Core

[R2-2007836](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007836.zip) Correction on PRS configuration Huawei, HiSilicon CR Rel-16 37.355 16.1.0 0270 - F NR\_pos-Core

[R2-2007941](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007941.zip) Correction to NR-SSB-Config ZTE Corporation, Sanechips CR Rel-16 37.355 16.1.0 0271 - F NR\_pos-Core

### 6.6.4 MAC corrections

[R2-2006545](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006545.zip) Discussion on SRS for positioning during the DRX inactive period vivo discussion NR\_pos-Core

### 6.6.5 Other

[R2-2007559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007559.zip) Introuduction of UE Capabilitues for support of measurement gaps for PRS-based measurements Ericsson CR Rel-16 38.306 16.1.0 0384 - B NR\_pos-Core

## 6.7 NR mobility enhancements

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed June 20; WID: [RP-192277](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_85\Docs\RP-192277.zip); SR [RP-201273](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201273.zip)). Documents in this agenda item will be handled in a break out session).

Documents under 6.7 will be treated together with documents in 7.4.

Email max expectation: 8 email threads (with 7.4)

### 6.7.1 General and Stage 2 Corrections

Including incoming LSs (if any).

[R2-2007016](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007016.zip) Minor Correction for CPC configuration related procedure CATT, ZTE Corporation CR Rel-16 37.340 16.2.0 0218 - F NR\_Mob\_enh-Core

[R2-2007266](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007266.zip) SCG handling at DAPS HO Ericsson, ZTE Corporation (Rapporteur), Sanechips CR Rel-16 37.340 16.2.0 0219 - F NR\_Mob\_enh-Core

R2-2007267 SCG handling at DAPS HO Ericsson CR Rel-16 38.300 16.2.0 0272 - F NR\_Mob\_enh-Core Late

[R2-2007359](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007359.zip) Various corrections to NR Mobility enhancements description Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.2.0 0274 - F NR\_Mob\_enh-Core

[R2-2007542](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007542.zip) Correction for editorial structure of CPC section Samsung Electronics Romania CR Rel-16 37.340 16.2.0 0221 - D NR\_Mob\_enh-Core

[R2-2007698](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007698.zip) Clarification on SCells and SCG release at DAPS HO ZTE Corporation, Sanechips, Ericsson CR Rel-16 38.300 16.2.0 0287 - F NR\_Mob\_enh-Core

[R2-2007699](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007699.zip) Clarification on SCells and SCG release at DAPS HO ZTE Corporation, Sanechips, Ericsson CR Rel-16 36.300 16.2.0 1307 - F LTE\_feMob-Core

### 6.7.2 Conditional handover related corrections

This AI jointly addresses corrections to NR and LTE CHO.

[R2-2006869](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006869.zip) Correction to conditional configurations Google Inc. CR Rel-16 36.331 16.1.1 4359 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007018](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007018.zip) Minor Correction for Mobility Further Enhancement CATT CR Rel-16 38.331 16.1.0 1771 - F NR\_Mob\_enh-Core

[R2-2007229](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007229.zip) Internode signalling upon reconfiguration of source Pcell Samsung Telecommunications discussion Rel-16 NR\_Mob\_enh-Core

[R2-2007230](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007230.zip) Clarifications regarding CHO Samsung Telecommunications CR Rel-16 38.331 16.1.0 1806 - F NR\_Mob\_enh-Core

[R2-2007361](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007361.zip) Corrections to Conditional Reconfiguration triggering Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1836 - F NR\_Mob\_enh-Core

[R2-2007502](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007502.zip) Corrections to number of candidate cell in CHO Samsung Electronics Romania CR Rel-16 38.331 16.1.0 1849 - F NR\_Mob\_enh-Core

[R2-2007593](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007593.zip) Correction of Need Code for Mobility Enhancements Ericsson CR Rel-16 38.331 16.1.0 1867 - F NR\_Mob\_enh-Core

[R2-2007594](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007594.zip) Correction of description of CHO events for Mobility Enhancements Ericsson CR Rel-16 38.331 16.1.0 1868 - F NR\_Mob\_enh-Core

[R2-2007625](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007625.zip) Corrections regarding the use of DAPS terminolgy Samsung Telecommunications CR Rel-16 36.331 16.1.1 4395 - F NR\_Mob\_enh-Core

[R2-2007663](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007663.zip) Correction to update of CHO configuration Samsung CR Rel-16 36.331 16.1.1 4396 - F LTE\_feMob-Core

[R2-2007664](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007664.zip) Corrections to Mobility Enahncements Samsung CR Rel-16 38.331 16.1.0 1874 - F NR\_Mob\_enh-Core

[R2-2007700](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007700.zip) Discussion on the cell selection triggered by CHO failure ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

[R2-2007701](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007701.zip) Clarification on the cell selection triggered by CHO failure (Alt. 1) ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1884 - F NR\_Mob\_enh-Core

[R2-2007702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007702.zip) Clarification on the cell selection triggered by CHO failure (Alt. 2) ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1885 - F NR\_Mob\_enh-Core

[R2-2007703](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007703.zip) Clarification on the cell selection triggered by CHO failure (Alt. 1) ZTE Corporation, Sanechips CR Rel-16 36.331 16.1.0 4402 - F LTE\_feMob-Core

[R2-2007704](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007704.zip) Clarification on the cell selection triggered by CHO failure (Alt. 2) ZTE Corporation, Sanechips CR Rel-16 36.331 16.1.0 4403 - F LTE\_feMob-Core

[R2-2007705](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007705.zip) Timer handling upon initiation of RRC re-establishment ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1886 - F NR\_Mob\_enh-Core

[R2-2007706](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007706.zip) Timer handling upon initiation of RRC re-establishment ZTE Corporation, Sanechips CR Rel-16 36.331 16.1.0 4404 - F LTE\_feMob-Core

[R2-2007718](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007718.zip) UE assistance information transmission in CHO case SHARP Corporation discussion NR\_Mob\_enh-Core

[R2-2007764](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007764.zip) Correction on TS 38.331 for CHO Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1898 - F NR\_Mob\_enh-Core

[R2-2007765](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007765.zip) Correction on TS 36.331 for CHO Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4409 - F LTE\_feMob-Core

[R2-2007859](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007859.zip) Correction on NR CHO OPPO CR Rel-16 38.331 16.1.0 1936 - F NR\_Mob\_enh-Core

[R2-2008011](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008011.zip) Discussion on physical cell id for CHO configurations Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

### 6.7.3 Conditional PSCell change for intra-SN corrections

Including corrections for CPC.

[R2-2007360](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007360.zip) Corrections to CPC with and without SRB3 involved Nokia, Nokia Shanghai Bell CR Rel-16 37.340 16.2.0 0220 - F NR\_Mob\_enh-Core

[R2-2007592](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007592.zip) Correction of field description for Mobility Enhancements Ericsson CR Rel-16 38.331 16.1.0 1866 - F NR\_Mob\_enh-Core

[R2-2007595](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007595.zip) Correction for Mobility Enhancements Ericsson CR Rel-16 37.340 16.2.0 0223 - F NR\_Mob\_enh-Core Late

[R2-2007707](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007707.zip) Discussion on the compliance check failure for CPC configuration after PCell change ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

[R2-2007708](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007708.zip) Compliance check failure for CPC configuration ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1887 - F NR\_Mob\_enh-Core

[R2-2007709](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007709.zip) Compliance check failure for CPC configuration ZTE Corporation, Sanechips CR Rel-16 36.331 16.1.0 4405 - F LTE\_feMob-Core

[R2-2007766](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007766.zip) Correction on TS 38.331 for CPC Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1899 - F NR\_Mob\_enh-Core

[R2-2007767](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007767.zip) Correction on TS 36.331 for CPC Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4410 - F NR\_Mob\_enh-Core

### 6.7.4 UE capabilities

Including UE capability aspects of NR mobility WI.

[R2-2007454](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007454.zip) Discussion on UE capabilities for NR DAPS Huawei, HiSilicon, Vivo, Mediatek Inc. discussion Rel-16 NR\_Mob\_enh-Core

[R2-2007455](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007455.zip) Discussion on per UE NR mobility capabilities Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

[R2-2007457](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007457.zip) Correction on TS 38.306 for DAPS Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0380 - F NR\_Mob\_enh-Core

[R2-2007591](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007591.zip) Multi quantity event for CHO Ericsson discussion NR\_Mob\_enh-Core

[R2-2007610](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007610.zip) UE Capabilities for DAPS Ericsson discussion Rel-16 NR\_Mob\_enh-Core

### 6.7.5 Other

Including DAPS aspects that are NR-specific without equivalent LTE impacts.

[R2-2007017](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007017.zip) Correction on Source Cell Group and Source SpCell CATT CR Rel-16 38.331 16.1.0 1770 - F NR\_Mob\_enh-Core

[R2-2007482](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007482.zip) RRC Re-establishment at RLF in target PCell during DAPS HO Ericsson CR Rel-16 38.331 16.1.0 1846 - F NR\_Mob\_enh-Core

[R2-2007495](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007495.zip) T312 handling during MobilityFromNR Lenovo (Beijing) Ltd CR Rel-16 38.331 16.1.0 1847 - F NR\_Mob\_enh-Core

[R2-2007571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007571.zip) RLF in source cell during DAPS handover Ericsson CR Rel-16 38.331 16.1.0 1861 - F NR\_Mob\_enh-Core

[R2-2008018](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008018.zip) CR on drb-ContinueROHC for DAPS Samsung CR Rel-16 38.331 16.1.0 1974 - F NR\_Mob\_enh-Core

## 6.8 DC and CA enhancements

(LTE\_NR\_DC\_CA\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Target Aug 20; WI [RP-200791](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200791.zip), SR: [RP-201218](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201218.zip)) R1 and R2 parts are 100% complete.

Email max expectation: 4-5 email threads

### 6.8.1 General and Stage 2 Corrections

Including incoming LSs rapporteur inputs, including corrections discussions going beyond a specific TS, cross group discussions.

[R2-2006679](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006679.zip) Discussion on Scell reactivation in a dormant and non-dormant BWP SHARP Corporation discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2006897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006897.zip) CR to 37.340 on SCG resume procedure ZTE Corporation, Sanechips CR Rel-16 37.340 16.2.0 0217 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007582](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007582.zip) Misc corrections for Rel-16 DCCA Ericsson Inc. CR Rel-16 36.300 16.2.0 1306 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007583](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007583.zip) Misc corrections for Rel-16 DCCA Ericsson Inc. CR Rel-16 38.300 16.2.0 0284 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007584](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007584.zip) Misc corrections for Rel-16 DCCA Ericsson Inc. CR Rel-16 36.331 16.1.1 4391 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007585](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007585.zip) Misc corrections for Rel-16 DCCA Ericsson Inc. CR Rel-16 38.331 16.1.0 1865 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007690](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007690.zip) Correction on power coordination in NR-DC Huawei, HiSilicon CR Rel-16 37.340 16.2.0 0224 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007691.zip) Correction on UL behaviours in the dormant BWP Huawei, HiSilicon CR Rel-16 38.300 16.2.0 0286 - F LTE\_NR\_DC\_CA\_enh-Core

### 6.8.2 MAC Corrections

[R2-2006559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006559.zip) Discussion on how to avoid frequent and redundant PHR triggered by dormant BWP switch Qualcomm Incorporated discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2006560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006560.zip) CR to 38.321 on introducing PHR prohibit timer for PHR triggered by dormant BWP switch Qualcomm Incorporated CR Rel-16 38.321 16.1.0 0759 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2006810](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006810.zip) Clarifications on PHR triggers-R15 OPPO CR Rel-15 38.321 15.9.0 0786 - F NR\_newRAT-Core

[R2-2006811](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006811.zip) Clarifications on PHR triggers-R16 OPPO CR Rel-16 38.321 16.1.0 0787 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2006812](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006812.zip) Discussion on frequent PHR trigger due to dormancy transition. OPPO discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2007216](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007216.zip) Redundant and frequent PHR reporting in NR vivo discussion Rel-16 38.321 LTE\_NR\_DC\_CA\_enh-Core

[R2-2007217](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007217.zip) correction on the UE behaviour on dormant state vivo CR Rel-15 36.321 15.9.0 1491 - F LTE\_NR\_DC\_CA\_enh-Core, LTE\_euCA-Core

[R2-2007218](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007218.zip) correction on the UE behaviour on dormant state vivo CR Rel-16 36.321 16.1.0 1492 - A LTE\_NR\_DC\_CA\_enh-Core, LTE\_euCA-Core

[R2-2007219](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007219.zip) correction on the UE behaviour on dormant BWP vivo CR Rel-16 38.321 16.1.0 0810 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007905](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007905.zip) Discussion on the timing of scellDecativatedTimer for direct scell activation vivo discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2007906](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007906.zip) (Draft) LS on the timing of scellDecativatedTimer for direct scell activation vivo LS out Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN WG1 Cc:RAN WG4

[R2-2007947](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007947.zip) Correction on PHR triggering upon BWP switching from dormant BWP to non-dormant BWP Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0871 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2008014](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008014.zip) CR on the terminology of PHR trigger Samsung CR Rel-16 38.321 16.1.0 0874 - F LTE\_NR\_DC\_CA\_enh-Core

### 6.8.3 RRC Corrections

[R2-2006780](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006780.zip) Corrections to failure type for MCGFailureInformation and SCGFailureInformation Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1737 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007279](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007279.zip) Correction to field condition of refFR2ServCellAsyncCA Ericsson CR Rel-16 38.331 16.1.0 1823 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007622](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007622.zip) Correction information structure of early measurement results for additional EUTRA frequencies Samsung Telecommunications CR Rel-16 36.331 16.1.1 4394 - F LTE\_NR\_DC\_CA\_enh-Core

#### 6.8.3.1 Fast Scell activation

[R2-2006562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006562.zip) CR to 36.306 on UE capability of direct SCell activation Qualcomm Incorporated CR Rel-16 36.306 16.1.0 1776 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2006563](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006563.zip) CR to 36.331 on UE capability of direct SCell activation Qualcomm Incorporated CR Rel-16 36.331 16.1.1 4348 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007003](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007003.zip) Correction on the Dormant BWP CATT discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2007684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007684.zip) Correction on dormant BWP Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1881 - F LTE\_NR\_DC\_CA\_enh-Core

#### 6.8.3.2 Early measurement reporting

Including outcome of [Post110-e][080][DCCA] Early Measureemnts and Network Sharing (Huawei)

[R2-2007004](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007004.zip) CR to 38.331 on involving all fields of early measurement report CATT CR Rel-16 38.331 16.1.0 1767 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007005](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007005.zip) CR to 36.331 on involving all fields of early measurement report CATT CR Rel-16 36.331 16.1.1 4365 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007205](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007205.zip) Correction on idle/inactive measurement after cell (re)selection Google Inc. CR Rel-16 38.331 16.1.0 1797 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007220](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007220.zip) Correction on early measurement configuration during inter-RAT cell reselection vivo CR Rel-16 38.331 16.1.0 1802 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007682.zip) Correction on updating the measurement configuration and performing measurement in early measurement Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4397 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007685.zip) Correction on the descriptions of the two idlemodeMeasurementReq fields Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1882 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2007688 Summary of [Post110-e][080][DCCA] Early Measurements and Network Sharing Huawei discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core Late

[R2-2008008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008008.zip) Corrections to the UE behavior upon reception of RRCSetup while T331 is running Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1970 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2008009](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008009.zip) Corrections on the behaviours with cell (re-)selection while T331 is running Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1971 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2008010](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008010.zip) Corrections on the UE behavior upon PLMN reselection while T331 is running Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1972 - F LTE\_NR\_DC\_CA\_enh-Core

#### 6.8.3.3 Other

Including NR-NR DC, MCG SCell and SCG configuration with RRC resume, Fast MCG link recovery, and RRC corrections that doesn’t fit under the other headings.

[R2-2006813](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006813.zip) Correction on sk-Counter-R15 OPPO CR Rel-15 38.331 15.10.0 1738 - F NR\_newRAT-Core

[R2-2006814](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006814.zip) Correction on sk-Counter-R16 OPPO CR Rel-16 38.331 16.1.0 1739 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2006815](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006815.zip) Clarifications on concept of suspend XCG transmission OPPO discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2006886](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006886.zip) Add tdm-PatternConfig-r16 in the inter-node message Google Inc. CR Rel-16 36.331 16.1.1 4361 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007006](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007006.zip) Correction on the Configuration of sCellState for 38.331 CATT CR Rel-16 38.331 16.1.0 1768 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007007](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007007.zip) Correction on the Configuration of sCellState for 36.331 CATT CR Rel-16 36.331 16.1.1 4366 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007008.zip) Correction on the Field Description for Field Using SetupRelease Structure CATT CR Rel-16 38.331 16.1.0 1769 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007221](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007221.zip) Adding enableDefaultBeamForCSS for cross-carrier scheduling with different SCS vivo CR Rel-16 38.331 16.1.0 1803 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007277](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007277.zip) Remaining issues on Toffset for NR-DC power control Ericsson CR Rel-16 38.331 16.1.0 1822 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007278](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007278.zip) Remaining issues on Toffset for NR-DC power control Ericsson CR Rel-16 38.306 16.1.0 0376 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007578](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007578.zip) Missing fields for Toffset coordination in INM Ericsson CR Rel-16 38.331 16.1.0 1864 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007680.zip) Correction on HARQ ACK spatial bundling configurations for secondary PUCCH group Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2007681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007681.zip) Correction on storing SCG configuration in UE INACTIVE AS context Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1879 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007683.zip) Correction on SCG RLF detection while MCG is suspended Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1880 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007686](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007686.zip) Miscellaneous corrections for fast MCG link recovery Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4398 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007687.zip) Miscellaneous corrections for fast MCG link recovery Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1883 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2007882](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007882.zip) Clarification on CA slot offset configuration MediaTek Inc. CR Rel-16 38.331 16.1.0 1941 - F LTE\_NR\_DC\_CA\_enh-Core

### 6.8.4 Other

## 6.9 UE Power Saving in NR

(NR\_UE\_pow\_sav-Core; leading WG: RAN1; REL-16; started: Mar 19; Completed Jun 20; WID: RP-200494; SR: [RP-200913](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200913.zip)).

Email max expectation: 3-4 email threads

### 6.9.1 General and Stage 2 corrections

Including incoming LSs, rapporteur inputs, etc

### 6.9.2 User plane Corrections

[R2-2006684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006684.zip) Prioritization between DCP and RAR vivo discussion Rel-16 38.321 NR\_UE\_pow\_sav-Core

[R2-2006989](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006989.zip) Correction on prioritization between DCP and RAR to C-RNTI CATT CR Rel-16 38.321 16.1.0 0794 - F NR\_UE\_pow\_sav-Core

[R2-2007259](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007259.zip) RAR prioritization over DCP Ericsson, Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2007369](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007369.zip) Remaining issues of DCP overlapping with RAR OPPO discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2007391](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007391.zip) Prioritization between DCP and RAR addressed to C-RNTI Samsung discussion NR\_UE\_pow\_sav-Core

[R2-2007528](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007528.zip) CR on 38.321 for CSI and SRS in the case that DCP is configured ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0829 - F NR\_UE\_pow\_sav-Core

[R2-2007529](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007529.zip) Considerations on the CSI and SRS in the case that DCP is configured ZTE Corporation, Sanechips discussion Rel-16 NR\_UE\_pow\_sav-Core

### 6.9.3 Control plane Corrections

[R2-2006685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006685.zip) Discussion on how to restructure the RRM relaxation vivo, Samsung, LG Electronics Inc., MediaTek Inc., Panasonic discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2006686](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006686.zip) RRM relaxation for high priority frequency vivo, Samsung, ZTE, Intel, Panasonic discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2006687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006687.zip) [Draft] LS to RAN4 on RRM measurement relaxation in power saving vivo LS out Rel-16 NR\_UE\_pow\_sav-Core To:RAN4

[R2-2006688](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006688.zip) Value range for UAI in power saving vivo discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2006988](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006988.zip) Inter-node exchange of UAI for SCG during handover CATT discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2007063](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007063.zip) Correction to UE behavior for RRM measurement relaxation Samsung Electronics CR Rel-16 38.304 16.1.0 0178 - F NR\_UE\_pow\_sav-Core

[R2-2007232](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007232.zip) Repetition of SCG related (power saving) assistance upon synchronous reconfiguration/ handover Samsung Telecommunications discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2007367](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007367.zip) RRM relaxation for higher priority frequency OPPO CR Rel-16 38.304 16.1.0 0180 - F NR\_UE\_pow\_sav-Core

[R2-2007368](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007368.zip) CR for UE assistance information for releasePreference OPPO CR Rel-16 38.331 16.1.0 1837 - F NR\_UE\_pow\_sav-Core

[R2-2007576](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007576.zip) Misc. corrections CR for 38.331 for Power Savings MediaTek Inc. CR Rel-16 38.331 16.1.0 1862 - D NR\_UE\_pow\_sav-Core

[R2-2007808](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007808.zip) Correction for UAI transmission in NR-DC case Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1912 - F NR\_UE\_pow\_sav-Core

[R2-2007809](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007809.zip) Correction on condition of prohibit timer for power saving Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1913 - F NR\_UE\_pow\_sav-Core

[R2-2007810](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007810.zip) Correction on field description of preferredDRX-LongCycle Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1914 - F NR\_UE\_pow\_sav-Core

[R2-2007811](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007811.zip) Correction on field description of maxMIMO-Layers Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1915 - F NR\_UE\_pow\_sav-Core

[R2-2007812](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007812.zip) Correction on other configuration release for SCG (38.331) Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1916 - F NR\_UE\_pow\_sav-Core

[R2-2007813](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007813.zip) Correction on other configuration release for SCG (36.331) Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4412 - F NR\_UE\_pow\_sav-Core

[R2-2007814](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007814.zip) Corrections on clarificaiton of the cell group specific UE assistance information Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1917 - F NR\_UE\_pow\_sav-Core

[R2-2007815](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007815.zip) Discussion on preferredDRX-ShortCycleTimer Huawei, HiSilicon discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2007904](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007904.zip) Add UE assistance information in CG-ConfigInfo Google Inc. CR Rel-16 38.331 16.1.0 1942 - F NR\_UE\_pow\_sav-Core

## 6.10 SON/MDT support for NR

(NR\_SON\_MDT-Core; leading WG: RAN3; REL-16; started: Jun 19; Completed June 20; WID: [RP-191776](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_85\Docs\RP-191776.zip); SR [RP-200773](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200773.zip)). Documents in this agenda item will be handled in a break out session

Email max expectation: 4-5 email threads

### 6.10.1 General and stage 2 corrections

Including incoming LSs, TS 37.320 corrections

[R2-2006515](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006515.zip) limitation of Propagation of immediate MDT configuration in case of Xn inter-RAT HO (R3-204115; contact: LGE) RAN3 LS in Rel-16 NR\_SON\_MDT-Core To:SA5 Cc:RAN2

[R2-2006521](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006521.zip) LS on propagation of user consent related information during Xn inter-PLMN handover (R3-204378; contact: Nokia) RAN3 LS in Rel-16 NR\_SON\_MDT-Core To:SA3 Cc:RAN2, SA5

[R2-2006535](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006535.zip) Reply LS to LS on removal of Management Based MDT Allowed IE for NR (S5-203410; contact: Ericsson) SA5 LS in Rel-16 5GMDT To:RAN3 Cc:RAN2

[R2-2006816](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006816.zip) Drafting Rules for subclause 15 on SON Nokia (Rapporteur) CR Rel-16 38.300 16.2.0 0258 - F NR\_SON\_MDT-Core

[R2-2007371](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007371.zip) Correction on Accessibility measurements Samsung CR Rel-16 37.320 16.1.0 0086 - F NR\_SON\_MDT-Core

R2-2007427 Summary for 6.10.1 General and stage-2 corrections CMCC discussion Rel-16 NR\_SON\_MDT-Core Late

[R2-2007512](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007512.zip) Impact of SNPN on PLMN check for MDT Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT-Core

[R2-2007671](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007671.zip) Corrections in TS 37.320 Ericsson discussion

[R2-2007750](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007750.zip) Corrections on MDT stage-2 descriptions Huawei, HiSilicon CR Rel-16 37.320 16.1.0 0087 - F NR\_SON\_MDT-Core

[R2-2007780](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007780.zip) Mislleneous corrections to 37320 ZTE Corporation, Sanechips CR Rel-16 37.320 16.1.0 0088 - F NR\_SON\_MDT-Core

[R2-2007860](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007860.zip) Corrections for TS37.320 CATT CR Rel-16 37.320 16.1.0 0089 - F NR\_SON\_MDT-Core

### 6.10.2 TS 38.314 corrections

[R2-2007422](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007422.zip) Discussion on introduction of per PLMN L2M CMCC discussion Rel-16 NR\_SON\_MDT-Core

[R2-2007423](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007423.zip) Introduction of per PLMN L2M CMCC CR Rel-16 38.314 16.0.0 0001 - B NR\_SON\_MDT-Core

[R2-2007424](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007424.zip) Typo correction for Packet Error Rate CMCC CR Rel-16 38.314 16.0.0 0002 - D NR\_SON\_MDT-Core

R2-2007425 Summary for 6.10.2 TS 38.314 corrections CMCC discussion Rel-16 NR\_SON\_MDT-Core Late

[R2-2007513](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007513.zip) Unclarity on L2 measurements applicability to IAB Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT-Core

[R2-2007514](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007514.zip) Delay measurement for IAB Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_SON\_MDT-Core

[R2-2007669](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007669.zip) On M4 measurement related clarification Ericsson discussion

[R2-2007670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007670.zip) On EUTRA related L2 measurements for EN-DC Ericsson discussion

[R2-2007751](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007751.zip) Discussion on average Uu delay measurement for L2M Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2007752](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007752.zip) Discussion on D1 measurement for L2M Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

### 6.10.3 RRC corrections

[R2-2006644](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006644.zip) Correction about Including Re-connection Cell ID in RLF Report CATT CR Rel-16 36.331 16.1.1 4351 - F NR\_SON\_MDT-Core

[R2-2006645](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006645.zip) Correction about Including Re-connection Cell ID in RLF Report CATT CR Rel-16 38.331 16.1.0 1723 - F NR\_SON\_MDT-Core

[R2-2006648](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006648.zip) Clarification on RLF Report for Inter-RAT MRO CATT CR Rel-16 36.331 16.1.1 4352 - F NR\_SON\_MDT-Core

[R2-2006649](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006649.zip) Clarifications for MeasResult2NR and MeasResult2EUTRA Relevant IEs CATT CR Rel-16 38.331 16.1.0 1724 - F NR\_SON\_MDT-Core

[R2-2006650](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006650.zip) Add TA Information in CEF Report when T319 Expire CATT CR Rel-16 38.331 16.1.0 1725 - F NR\_SON\_MDT-Core

[R2-2007214](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007214.zip) Correction on cross-RAT RLF report Google Inc. CR Rel-16 38.331 16.1.0 1801 - F NR\_SON\_MDT-Core

[R2-2007224](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007224.zip) Clarification on MDT regarding reporting of WLAN and BT information Samsung Telecommunications CR Rel-16 38.331 16.1.0 1804 - F NR\_SON\_MDT-Core

[R2-2007225](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007225.zip) Clarification on MDT regarding area configuration and target frequencies Samsung Telecommunications CR Rel-16 38.331 16.1.0 1805 - F NR\_SON\_MDT-Core

[R2-2007226](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007226.zip) Specification of target frequencies for measurement logging Samsung Telecommunications discussion Rel-16 NR\_SON\_MDT-Core

[R2-2007372](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007372.zip) Corrections on ConnEstFailReport Samsung CR Rel-16 38.331 16.1.0 1838 - F NR\_SON\_MDT-Core

[R2-2007373](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007373.zip) Correction on RA-Report Samsung CR Rel-16 38.331 16.1.0 1839 - F NR\_SON\_MDT-Core

[R2-2007382](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007382.zip) Logging PLMN Info in VarConnEstFailReport Samsung discussion NR\_SON\_MDT-Core

[R2-2007384](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007384.zip) Moving IE InterFreqTargetList out of IE AreaConfiguration Samsung discussion NR\_SON\_MDT-Core

[R2-2007385](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007385.zip) Avoiding Duplication of Location Info upon SCG Failure Samsung discussion NR\_SON\_MDT-Core

[R2-2007386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007386.zip) How to Determine Whether a Cell is Part of the Area Indicated by AreaConfiguration Samsung discussion NR\_SON\_MDT-Core

[R2-2007510](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007510.zip) Correction on RA-Report release Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1853 - F NR\_SON\_MDT-Core

[R2-2007511](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007511.zip) Correction to RLF cause determination for backhaul failure Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1854 - F NR\_SON\_MDT-Core

[R2-2007657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007657.zip) On the need of SCell indication in the RA-report Ericsson discussion

[R2-2007668](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007668.zip) On the inclusion of reconnectCellId Ericsson discussion

[R2-2007753](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007753.zip) Discussion on user consent Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2007754](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007754.zip) Editorial corrections on MDT and SON in NR Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1892 - D NR\_SON\_MDT-Core

[R2-2007755](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007755.zip) Correction on MDT and SON configurations for MR-DC Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1893 - F NR\_SON\_MDT-Core

[R2-2007756](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007756.zip) Correction on logged MDT Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1894 - F NR\_SON\_MDT-Core

[R2-2007757](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007757.zip) Correction on the release of obtainCommonLocation Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1895 - F NR\_SON\_MDT-Core

[R2-2007758](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007758.zip) Correction on Inter-RAT SON for 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1896 - F NR\_SON\_MDT-Core

[R2-2007759](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007759.zip) Correction on Inter-RAT SON for 36.331 Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4408 - F NR\_SON\_MDT-Core

[R2-2007760](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007760.zip) Correction on clearing VarRLF-Report regarding T316 Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1897 - F NR\_SON\_MDT-Core

R2-2007761 Summary on 6.10.3 RRC Corrections Huawei discussion Rel-16 NR\_SON\_MDT-Core Late

[R2-2007776](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007776.zip) Correction on GNSS location information reporting in MDT ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1900 - F NR\_SON\_MDT-Core

[R2-2007777](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007777.zip) Correction to 38331 on logged MDT ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1901 - F NR\_SON\_MDT-Core

[R2-2007778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007778.zip) Correction to 38331 on RA report ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1902 - F NR\_SON\_MDT-Core

[R2-2007779](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007779.zip) Inclusion of UL carrier indication in CEF report ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1903 - B NR\_SON\_MDT-Core

[R2-2007954](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007954.zip) Correction to RLF content setting in VarRLF-Report Quectel draftCR Rel-16 38.331 16.1.0 D NR\_SON\_MDT-Core

[R2-2008000](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008000.zip) Correction on the field description of CGI-InfoEUTRALogging Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1962 - F NR\_SON\_MDT-Core

[R2-2008001](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008001.zip) Correction to measResultNeighCells for logged measurements Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1963 - F NR\_SON\_MDT-Core

[R2-2008002](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008002.zip) Correction to the upper limit of PLMN identities in VarRLF-Report Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1964 - F NR\_SON\_MDT-Core

[R2-2008003](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008003.zip) Corrections to measResultLastServCell for RLF and HO failure Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1965 - F NR\_SON\_MDT-Core

[R2-2008004](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008004.zip) Corrections to mobility history information Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1966 - F NR\_SON\_MDT-Core

[R2-2008005](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008005.zip) Miscellaneous corrections related to connection establishment/resume failure information Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1967 - F NR\_SON\_MDT-Core

[R2-2008006](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008006.zip) Miscellaneous corrections related to logged measurements Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1968 - F NR\_SON\_MDT-Core

## 6.11 2-step RACH for NR

(NR\_2step\_RACH-Core; leading WG: RAN1; REL-16; started: Dec 18; Completed: June 20; WID: RP-200085; SR: [RP-200622](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200622.zip)).

Email max expectation: 3 email threads

### 6.11.1 General and Stage 2 Corrections

[R2-2006817](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006817.zip) Missing RACH Figure Nokia (Rapporteur), Nokia Shanghai Bell, OPPO, ZTE CR Rel-16 38.300 16.2.0 0259 - F NR\_2step\_RACH-Core

### 6.11.2 User plane corrections

[R2-2006548](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006548.zip) Remaining Issues on Fallback Reception in the 2-step CFRA vivo discussion

[R2-2007825](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007825.zip) Correction to description of MAC subheader for msgB Huawei, HiSilicon CR Rel-16 38.321 16.1.0 0841 - F NR\_2step\_RACH-Core

### 6.11.3 Control plane corrections

[R2-2006708](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006708.zip) Correction to msgB-ResponseWindow vivo CR Rel-16 38.331 16.1.0 1730 - F NR\_2step\_RACH-Core

[R2-2006709](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006709.zip) Correction to msgA-TransMax vivo CR Rel-16 38.331 16.1.0 1731 - F NR\_2step\_RACH-Core

[R2-2007022](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007022.zip) The remaining issue on RO configuration of 2-step CFRA Fujitsu discussion Rel-16 NR\_2step\_RACH-Core

[R2-2007826](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007826.zip) Correction on RACH-ConfigCommonTwoStepRA Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1923 - F NR\_2step\_RACH-Core

[R2-2007827](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007827.zip) Correction on msgA-PUSCH-Config Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1924 - F NR\_2step\_RACH-Core

[R2-2008012](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008012.zip) Further discussion on 2-step RA configurations LG Electronics discussion NR\_2step\_RACH-Core

## 6.12 NR Other Control Plane WIs

(SRVCC\_NR\_to\_UMTS-Core; leading WG: RAN2; REL-16; started: Dec 18; Completed; Mar 20; WID: [RP-190713](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_83\Docs\RP-190713.zip))

(RACS-RAN-Core, leading WG: RAN2; REL-16; started: Mar 19; completed: Jun 20; WID: [RP-191088](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_84\Docs\RP-191088.zip))

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; completed: June 20; WID: RP-200122)

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

Email max expectation: 3 email threads

[R2-2006516](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006516.zip) LS reply on RACS multiple radio capability formats (R3-204147; contact: Huawei) RAN3 LS in Rel-16 RACS-RAN-Core To:SA2 Cc:RAN2, CT4, CT3

[R2-2006633](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006633.zip) Correction on First NPN-Identity Usage for SIB Validity CATT CR Rel-16 38.331 16.1.0 1722 - F NG\_RAN\_PRN-Core

[R2-2006634](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006634.zip) Correction on Naming of the List of Forbidden Tracking Areas CATT CR Rel-16 38.304 16.1.0 0176 - F NG\_RAN\_PRN-Core

[R2-2006852](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006852.zip) Cell selection and reselection corrections for NPNs Nokia, Nokia Shanghai Bell CR Rel-16 38.304 16.1.0 0177 - F NG\_RAN\_PRN-Core, NR\_unlic-Core

[R2-2006853](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006853.zip) Corrections for PNI-NPN related parameter selection Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1742 - F NG\_RAN\_PRN-Core

[R2-2006879](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006879.zip) Correction to the support of NR-DC for PNI-NPN Lenovo, Motorola Mobility CR Rel-16 38.300 16.2.0 0261 - F NG\_RAN\_PRN-Core

[R2-2007404](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007404.zip) Limited services and SNPN Access Mode Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2007411](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007411.zip) ims-EmergencySupport interpretation and clarification for SNPN Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2007805](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007805.zip) Correction on the UE Capability presence upon SN addition and SN change Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1911 - F RACS-RAN-Core

[R2-2007841](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007841.zip) Correction to 38.304 on any cell seletion in NPN Huawei, HiSilicon CR Rel-16 38.304 16.1.0 0181 - F NG\_RAN\_PRN-Core

[R2-2007842](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007842.zip) Correction to 38.331 on SIB validity and emergency services for NPN Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1926 - F NG\_RAN\_PRN-Core

[R2-2007902](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007902.zip) 38.304 Correction on UE behavior when the best cell is not suitable vivo CR Rel-16 38.304 16.1.0 0183 - F NG\_RAN\_PRN-Core

[R2-2008016](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008016.zip) Corrections to IntraFreqCAG-CellPerPLMN and InterFreqCAG-CellList in SIB3 and SIB4 Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1973 - D NG\_RAN\_PRN-Core

## 6.13 NR eMIMO

(NR\_eMIMO-Core, leading WG: RAN1; REL-16; started: Jun 18; target; Aug 20; WID: RP-200474; R2 part completed)

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

Email max expectation: 2 email threads

### 6.13.1 User plane corrections

[R2-2006779](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006779.zip) Corrections to description of Candidate RS ID in BFR MAC CE Samsung Electronics Co., Ltd CR Rel-16 38.321 16.1.0 0784 - F NR\_eMIMO-Core

[R2-2006797](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006797.zip) Clarification on the BFR MAC CE report vivo CR Rel-16 38.321 16.1.0 0785 - F NR\_eMIMO-Core

[R2-2007485](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007485.zip) Correction on the BFR cancellation Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0824 - F NR\_eMIMO-Core

[R2-2007525](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007525.zip) CR on 38.321 for BFR MAC CE design ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0826 - F NR\_eMIMO-Core

[R2-2007526](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007526.zip) CR on 38.321 for BFR procedue ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0827 - F NR\_eMIMO-Core

[R2-2007544](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007544.zip) Correction on the definition of Ci field in BFR MAC CE Qualcomm Incorporated draftCR Rel-16 38.321 16.1.0 F NR\_eMIMO-Core Withdrawn

[R2-2007575](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007575.zip) On serving cell set based SRS spatial relation indication MAC CE Ericsson discussion Rel-16 NR\_eMIMO-Core

[R2-2007736](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007736.zip) BFR Cancellation regarding MAC reset ASUSTek CR Rel-16 38.321 16.1.0 0837 - F NR\_eMIMO-Core

[R2-2007895](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007895.zip) Correction on AP and SP SRS MAC-CE Asia Pacific Telecom co. Ltd discussion NR\_eMIMO-Core

[R2-2008053](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008053.zip) Correction on the definition of Ci field in BFR MAC CE Qualcomm Incorporated draftCR Rel-16 38.321 16.1.0 F NR\_eMIMO-Core

### 6.13.2 Control plane corrections

[R2-2007161](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007161.zip) Correction on number of CORESETs per BWP OPPO CR Rel-16 38.331 16.1.0 1793 - F NR\_eMIMO-Core

[R2-2007577](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007577.zip) Miscellaneous eMIMO corrections Ericsson CR Rel-16 38.331 16.1.0 1863 - F NR\_eMIMO-Core

## 6.14 NR Other R1 WIs

(NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; Completed: Jun 20; WID: [RP-191997](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_85\Docs\RP-191997.zip);)

(NR\_L1enh\_URLLC-Core, leading WG: RAN1; REL-16; Completed: June 20; WID: [RP-191584](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_84\Docs\RP-191584.zip))

(R1 Led NR TEI16, Other R1 led items)

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

Email max expectation: 5 email threads

[R2-2006524](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006524.zip) Response LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI R3-204399; contact: ZTE) RAN3 LS in Rel-16 NR\_CLI\_RIM To:RAN2, RAN1 Cc:RAN4

[R2-2006898](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006898.zip) Discussion on RAN3 LS about SRS exchange ZTE Corporation, Sanechips discussion Rel-16 NR\_CLI\_RIM-Core

[R2-2006899](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006899.zip) Draft reply LS on exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI ZTE Corporation LS out Rel-16 NR\_CLI\_RIM-Core To:RAN3 Cc:RAN1, RAN4

[R2-2007621](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007621.zip) Correction regarding placement of cell specific SSB QCL information in CLI MO Samsung Telecommunications CR Rel-16 36.331 16.1.1 4393 - F NR\_CLI\_RIM

[R2-2007851](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007851.zip) Draft LS on Update frequency of SRS-RSRP configuration for CLI Samsung LS out Rel-16 NR\_CLI\_RIM To:RAN WG3 Cc:RAN WG1, RAN WG4

### 6.14.1 User plane corrections

### 6.14.2 Control plane corrections

[R2-2007080](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007080.zip) PUCCH configuration with subslotLengthForPUCCH-r16 CATT CR Rel-16 38.331 16.1.0 1783 - F NR\_L1enh\_URLLC-Core

[R2-2007355](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007355.zip) Exchange of SRS Information across GNB for UE CLI Nokia, Nokia Shanghai Bell discussion Rel-16

[R2-2007356](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007356.zip) [Draft] Reply LS to the LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI Nokia, Nokia Shanghai Bell LS out Rel-16 NR\_CLI\_RIM To:RAN3 Cc:RAN4

[R2-2007862](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007862.zip) Converting suffix ForDCI-Formatx-y for shorter RRC parameter names Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1937 - F NR\_L1enh\_URLLC-Core

[R2-2007989](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007989.zip) CR on CLI configuration LG Electronics Inc. CR Rel-16 38.331 16.1.0 1960 - F NR\_CLI\_RIM

## 6.15 NR Other R4 WIs

(NR\_HST, NR\_RRM\_enh-Core, NR\_RF\_FR1, NR\_RF\_FR2\_req\_enh, NR\_n66\_BW, LTE\_NR\_B41\_Bn41\_PC29dBm-Core, NR\_CSIRS\_L3meas, R4 Led NR TEI16, other R4 led items)

Email max expectation: 6 email threads

* [AT111-e][036][NR-R4] CSIRS L3 and RF FR1 (CATT)

Scope: Treat R2-2007001, R2-2007002, R2-2007065

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 26 0900 UTC, Intermediate deadlines by Rapporteur if needed.

NR CSIRS L3

[R2-2007001](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007001.zip) Correction on CSI-RS based intra-frequency and inter-frequency measurement definition CATT, ZTE Corporation, Sanechips, Huawei, HiSilicon CR Rel-15 38.300 15.10.0 0264 - F NR\_CSIRS\_L3meas

[R2-2007002](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007002.zip) Correction on CSI-RS based intra-frequency and inter-frequency measurement definition CATT, ZTE Corporation, Sanechips, Huawei, HiSilicon CR Rel-16 38.300 16.2.0 0265 - F NR\_CSIRS\_L3meas

RF FR1

[R2-2007065](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007065.zip) NR CA additional spectrum emission requirements Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1775 - B NR\_RF\_FR1-Core

RF FR2

* [AT111-e][037][NR-R4] MPE (Interdigital)

Scope: TBD after on-line

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Agreed CRs EOM, Deadline for comments at least 24h before. Intermediate deadlines by Rapporteur if needed.

MPE – Early Item – Online first

Chair:

a) New MAC CE

b) Reuse/ extend PHR MAC CE

Breif discussion

- Nokia think this is a new feature and this is the main argument for a New MAC CE. Nokia further think PHR information can be useful and this is the main argument for PHR reuse.

- Nokia think that a new MAC CE will be easier and the new procedures will in any case not have bad impact to existing PHR procedure.

- OPPO have no strong opinion, but think it need to be confirmed exactly what need to be reported, how power backoff is related, and whether V-bit is needed.

- vivo think that extending PHR will anyway mean an additional format and think a new MAC CE would make better sense.

- Ericsson think that there is a relation between Pbit and MPE indication, and think there are some triggers that are common.

- Apple think b) is better and have the same understanding as Ericsson.

- QC also want to support option b) and agree with Apple and Ericsson tht there are PHR information that is useful.

- Nokia think R4 has agrees that Pbit by itself doesn’t help, and think an LS doesn’t help.

- Nokia further think it is not clear that there are any common triggers at all between PHR and MPE.

- Intel somewhat prefers a). Intel think that if R4 agrees > 2bits then intel for sure prefers a). Intel think that it is beneficial to have different design, to get MPE indication as soon as possible.

- Intel think R4 are considering also 4bits.

- Chair: it is clear that reusing PHR has the more support in R2 and this will be considered when we resume the discussion. Think we may wait until R4 decide value range.

- Nokia think we can decide now and try to progress.

- LG think R2 can decide this based on the work effort in specifying a completely new MAC CE.

* R2 assumes to reuse / extend PHR MAC CE, and continue the MPE work accordingly (main remaining FFS is the required number of bits).

BREIF DISCUSSION Come back

- IDT explain that the discussion has progressed somewhat, think htat is can be useful to discuss if to have a separate prohibit timer for MPE. A majority of companies have indicted interest to have this separate.

- Apple think that at last discussion we didn’t have the decision to reuse PHR. Now a single prohibit timer could be ok. Ericsson agrees that a new discussion is needed.

- IDT think even R4 is making assumptions on prohibit timer. MPE reporting shold be faster than PHR

- LG think that if we want a new timer, then there isn’t that much gain in reusing PHR.

- Nokia think that an LS can be received tomorrow.

- Chair: this seems still controversial, so to optimize the discussion we wait for the LS.

[R2-2008571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008571.zip) LS on MPE enhancements RAN4 LSin

* Noted

[R2-2008511](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008511.zip) Addition of MPE reporting to TS 38.331 CR

DISCUSSION Late CB

Prohibit timer

- Ericsson think R4 didn't say there need to be a separate timer

- LG think the PHR timer can be reused.

- Nokia and Samsung think it is clear that the prohibit timer shall be for MPE only.

- Chair think that if we have a common timer, the timer need to be set to MIN (req for PHR, req for MPE). Nokia still think common timer doesn’t work.

- Nokia proposes the compromise that it is configurable whether prohibit timer is independent or common. Ericsson don’t like that. Nokia think that in this case everyone gets what they want.

- Not possible to decide by show of hands (tie). Chair proposes to go the way the WI rapporteur proposes.

Other

- Nokia think the relative threshold is missing in the CR

- Ericsson think this need discussion, how it can work, and it may impact MAC. Think it should be relative to what is reported.

- Chair expect that this discussion will need 1 week extension, so no need to set target to converge tomorrow.

MAC CR

- QC wonder if it is intended that the PMPR value shall always be reported also at normal PHR, the value 0 cannot be reported from the flist of values in the LS.

- IDT were also surprised that value 0 was not included.

- Ericsson think that P bit could be used, but even better if value zero could be assumed. QC think the value range was very contentious. IDT thin kwe can try to resolve

- Chair: please check, no LS to R4, we try to fix it, maybe use the Pbit?

* We use Indep prohibit timer instance (for MPE and PHR)
* The UE cap is already in the mega CR, if we cannot converge on MAC and RRC CRs, also the UE cap should be removed for now (to stick to normal practice)
* Include MAC and RRC CR in the email discussion.

[R2-2007650](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007650.zip) Summary of MPE mitigation in FR2 InterDigital discussion Rel-16 NR\_RF\_FR2\_req\_enh

[R2-2007649](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007649.zip) L2/3 aspects of MPE mitigation InterDigital discussion Rel-16 NR\_RF\_FR2\_req\_enh

[R2-2008093](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008093.zip) Discussion on MPE enhancements Ericsson discussion Rel-16 NR\_RF\_FR2\_req\_enh R2-2004932 Late

[R2-2007375](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007375.zip) UE FR2 MPE enhancements and solutions Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_RF\_FR2\_req\_enh R2-2004906

[R2-2006808](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006808.zip) Discussion on UE FR2 P-MPR reporting OPPO discussion Rel-16 NR\_RF\_FR2\_req\_enh

[R2-2006809](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006809.zip) Draft Response LS on UE FR2 P-MPR reporting OPPO LS out Rel-16 NR\_RF\_FR2\_req\_enh To:RAN4

[R2-2007123](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007123.zip) P-MPR Reporting Apple discussion Rel-16 NR\_RF\_FR2\_req\_enh

[R2-2007152](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007152.zip) Discussion on the MPE enhancements vivo discussion

[R2-2007153](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007153.zip) Draft CR on supporting the MPE enhancements vivo CR Rel-16 38.321 16.1.0 0806 - B NR\_RF\_FR2\_req\_enh

[R2-2007154](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007154.zip) Draft CR on supporting the MPE enhancements vivo CR Rel-16 38.331 16.1.0 1792 - B NR\_RF\_FR2\_req\_enh

[R2-2007376](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007376.zip) Introduction of MPE reporting for FR2 Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1515 2 B NR\_RF\_FR2\_req\_enh R2-2004907

[R2-2007377](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007377.zip) Introduction of MPE reporting for FR2 Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0707 2 B NR\_RF\_FR2\_req\_enh R2-2004908

[R2-2007378](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007378.zip) Introduction of MPE reporting for FR2 Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0819 - B NR\_RF\_FR2\_req\_enh

[R2-2007379](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007379.zip) Introduction of MPE reporting for FR2 Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.2.0 0210 2 B NR\_RF\_FR2\_req\_enh R2-2004910

[R2-2007533](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007533.zip) Enhancement on FR2 MPE Mitigation ZTE Corporation, Sanechips discussion Rel-16 NR\_RF\_FR2\_req\_enh

[R2-2007651](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007651.zip) Addition of MPE reporting to TS 38.321 InterDigital CR Rel-16 38.321 16.1.0 0833 - B NR\_RF\_FR2\_req\_enh

[R2-2007652](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007652.zip) Addition of MPE reporting to TS 38.331 InterDigital CR Rel-16 38.331 16.1.0 1873 - B NR\_RF\_FR2\_req\_enh

[R2-2008094](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008094.zip) Implementing MPE enhancements Ericsson CR Rel-16 38.321 16.1.0 0748 1 B NR\_RF\_FR2\_req\_enh R2-2004936 Late

[R2-2008095](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008095.zip) Implementing MPE enhancements Ericsson CR Rel-16 38.331 16.1.0 1640 1 B NR\_RF\_FR2\_req\_enh R2-2004938 Late

[R2-2008096](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008096.zip) Implementing MPE enhancements Ericsson CR Rel-16 38.306 16.1.0 0322 1 B NR\_RF\_FR2\_req\_enh R2-2004939 Late

## 6.16 NR Other

(R2 led NR TEI16, LSs from CT/SA requesting RAN2 action).

Email max expectation: 2 email threads

LS in

Proposed Noted, R2 is CCed. If needed, can be discussed in [000].

[R2-2006502](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006502.zip) Reply LS on support of eCall over NR (C1-203221; contact: Qualcomm) CT1 LS in Rel-16 TEI16 To:SA Cc:SA2, SA5, RAN2, RAN5, SA1, SA4, RAN, CT, CT6

[R2-2006533](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006533.zip) Reply LS to Reply LS on support for eCall over NR (S5-203369; contact: Nokia) SA5 LS in Rel-16 EIEI, 5GS\_Ph1 To:SA Cc:SA2, RAN2, CT1, RAN5, SA1, SA4, RAN, CT

[R2-2006539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006539.zip) LS on 3GPP NR Rel-16 URLLC and IIoT performance evaluation (WI042\_2020\_06\_29\_5G\_ACIA\_LS\_WI042\_to\_3GPP-RAN1; contact: Bosch, Ericsson, ZVEI) 5G-ACIA LS in Rel-16 To:RAN, RAN1 Cc:SA1. RAN2

Mandatory Full Rate UP IP

* [AT111-e][038][TEI16] Full Rate UP IP (Deutsche Telekom)

Scope: Treat R2-2006538, 6715, 6825, 6826, 6907, 6908, 6909, 7586, 7638

Determine agreeable parts in a first phase, Agree CRs and Reply LS (if needed) in a second phase

Deadline: Agreed CRs/LS EOM, Deadline for comments at least 24h before. Intermediate deadlines by Rapporteur if needed.

Chairman Summary Aug 26, revision 2:

OVERALL:

- R2 can agree CRs at present meeting for NR SA and NR DC.

- There seems to be significant support to also include NE DC MCG bearers as this can easily be done at PDCP layer. However, there are requests to understand better the consequences at system level. It has been pointed out that the mobility restrictions with support for only NE DC MCG bearers may be unwanted. Furthermore it seems that SA3 has just started a Study that includes NE-DC, and there are requests to await this outcome.

- Chair Proposal: Not include NE DC for Rel-16.

UE CAPABILITY:

- Two proposals on the table: A) hard code the mandatory aspect to be tied to RRC Rel16 indication and ignore any other signalling (NAS). B) Assume that we continue to use the NAS signalling, assume CT1 will make neccesary updates.

- Chair: There are diverging views, and for this particular case maybe both optnions will work. There was also a comment that hard coding will have additional impacts in the network signalling. We need to do more work in Rel-17, comments that hard-coding will not work then. If we are not sure, following the existing principle is the safest route.

- Chair proposal: We continue to use the NAS signalling, CT1 will make neccesary updates if any are needed.

CR

- It seems there is consensus that 38.300 needs a CR, but there are detailed comments on the text. There has also not been any objection to having a CR for 37.340, but there are detailed comments on the text (at least “simultaneous”). There may also be further detailed comments that has not sufaced yet bec of focusing on the big picture.

- Initial CRs are not agreeable as is.

- Chair: suggest anyway to start with the multi-co-sign CRs as a baseline.

LS

- Chair comment: There are several flavour LSes, but as it is not clear that we need multiple LS’es I’d suggest that we merge all necessary information into a single LS.

**DESCISIONS**

* [038] Will have CRs at this meeting, to implement the request to have mandatory full rate user plane integrity protection.
* [038] Include only NR SA and NR DC.
* [038] Assume that we continue to use the NAS signalling for signalling of this UE capability. Assume CT1 will make neccesary updates if any are needed.
* [038] Will send reply LS. Include in the LS also any information useful for CT1 TS update, if any.

[R2-2006538](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006538.zip) LS on mandatory support of full rate user plane integrity protection for 5G (SP-200617; contact: DT) SA LS in Rel-16 To:CT1, SA2, SA3, RAN2, RAN3 Cc:RAN, CT

* [038] Noted

[R2-2006715](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006715.zip) Mandatory Integrity protection at full user data rate Intel Corporation, Deutsche Telekom discussion Rel-16 TEI16

* [038] Noted

[R2-2006907](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006907.zip) Mandatory support of UPIP at full data rate for NR Qualcomm Incorporated discussion

* [038] Noted

[R2-2006825](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006825.zip) Mandatory support of full rate user plane integrity protection Deutsche Telekom, Telecom Italia, BMWi, Siemens, NCSC, Vodafone, Broadcom, Bell Mobility, AT&T, ORANGE, BT, KPN, Erillisverkot, Telstra, Swift Navigation, BOSCH, SEQUANS, FirstNet, Intel Corporation, Huawei, HiSilicon, Telefonica, Ericsson CR Rel-16 38.300 16.2.0 0285 - F TEI16

* [038] Revised

[R2-2008513](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008513.zip) Mandatory support of full rate user plane integrity protection Deutsche Telekom, Telecom Italia, BMWi, Siemens, NCSC, Vodafone, Broadcom, Bell Mobility, AT&T, ORANGE, BT, KPN, Erillisverkot, Telstra, Swift Navigation, BOSCH, SEQUANS, FirstNet, Intel Corporation, Huawei, HiSilicon, Telefonica, Ericsson CR Rel-16 38.300 16.2.0 0285 1 F TEI16

* [038] Agreed

[R2-2006826](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006826.zip) Mandatory support of full rate user plane integrity protection in NR-DC Deutsche Telekom, Telecom Italia, BMWi, Siemens, NCSC, Vodafone, Broadcom, Bell Mobility, AT&T, ORANGE, BT, KPN, Erillisverkot, Telstra, Swift Navigation, BOSCH, SEQUANS, FirstNet, T-Mobile USA, Intel Corporation, Huawei, HiSilicon, Telefonica, Ericsson CR Rel-16 37.340 16.2.0 0222 - F TEI16

* [038] Revised

R2-200xxxx Mandatory support of full rate user plane integrity protection in NR-DC Deutsche Telekom, Telecom Italia, BMWi, Siemens, NCSC, Vodafone, Broadcom, Bell Mobility, AT&T, ORANGE, BT, KPN, Erillisverkot, Telstra, Swift Navigation, BOSCH, SEQUANS, FirstNet, T-Mobile USA, Intel Corporation, Huawei, HiSilicon, Telefonica, Ericsson CR Rel-16 37.340 16.2.0 0222 1 F TEI16

[R2-2007586](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007586.zip) [draft] Response LS to TSG SA on mandatory support of full rate user plane integrity protection for 5G Deutsche Telekom LS out Rel-16 To:TSG SA, TSG RAN, TSG CT, SA WG3 Cc:CT WG1, SA WG2, RAN WG2, RAN WG3

* [038] Revised

R2-200xxxx [draft] Response LS to TSG SA on mandatory support of full rate user plane integrity protection for 5G Deutsche Telekom LS out Rel-16 To:TSG SA, TSG RAN, TSG CT, SA WG3 Cc:CT WG1, SA WG2, RAN WG2, RAN WG3

[R2-2007638](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007638.zip) [draft] LS on mandatory support of full rate user plane integrity protection for 5G Intel Corporation LS out Rel-16 TEI16 To:CT1 Cc:SA3, RAN3, SA2

* [038] Noted

[R2-2006909](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006909.zip) Draft Reply LS on mandatory support of full rate UPIP for 5G Qualcomm Incorporated LS out To:TSG SA

* [038] Noted

[R2-2006908](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006908.zip) Mandatory support of User Plane Integrity Protection at full data rate Qualcomm Incorporated CR Rel-16 38.300 16.2.0 0262 - C TEI16

* [038] Not pursued

TEI16 Ongoing Disc and Corrections

Secondary DRX

* [AT111-e][039][TEI16] Secondary DRX corrections (Ericsson)

Scope: Treat R2-2007062, 7370, 7486, 7258, 7890

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Agreed CRs EOM, Deadline for comments at least 24h before. Intermediate deadlines by Rapporteur if needed.

[R2-2007062](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007062.zip) 38321 CR Corrections on Secondary DRX LG Electronics Inc. CR Rel-16 38.321 16.1.0 0796 - F TEI16

[R2-2007370](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007370.zip) CR for secondary DRX group OPPO CR Rel-16 38.321 16.1.0 0818 - F TEI16

[R2-2007486](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007486.zip) Miscellaneous corrections for multiple DRX groups Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0825 - F TEI16

[R2-2007258](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007258.zip) Correction to secondaryDRX-Group capability Ericsson CR Rel-16 38.331 16.1.0 1813 - F NR\_newRAT-Core

[R2-2007890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007890.zip) (Re)start condition of drx-shortCycleTimer for secondary DRX MediaTek Inc. discussion Rel-16

* [AT111-e][040][TEI16] SMTC and NeedforGap Corrections (Nokia)

Scope: Treat R2-2007117, 7118, 7849, 7959

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

SMTC Configuration for PSCell Addition and SN Change in NR-DC

[R2-2007117](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007117.zip) SMTC Configuration for PSCell Addition and SN Change in NR-DC Apple, MediaTek Inc., Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, ZTE Corporation, Sanechips, CATT discussion Rel-16 NR\_newRAT-Core

[R2-2007118](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007118.zip) SMTC Configuration for PSCell Addition and SN Change in NR-DC Apple, MediaTek Inc., Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, ZTE Corporation, Sanechips, CATT CR Rel-16 38.331 16.1.0 1787 - F NR\_newRAT-Core

NeedForGap

[R2-2007849](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007849.zip) Correction to gapIndication considering interFrequencyConfig-NoGap Samsung CR Rel-16 38.331 16.1.0 1929 - F TEI16

[R2-2007959](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007959.zip) CR to 36.300 on support of NeedForGap capability Nokia, Nokia Shanghai Bell CR Rel-16 36.300 16.2.0 1311 - F NR\_newRAT-Core

* [AT111-e][041][TEI16] Other Corrections (Huawei)

Scope: Treat R2-2007948, 7962, 7945, 8007

Determine agreeable parts in a first phase, Agree CRs in a second phase

Deadline: Aug 27 0900 UTC, Intermediate deadlines by Rapporteur if needed.

HO NR to EN-DC

[R2-2007948](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007948.zip) Correction on HO from NR to EN-DC Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1948 - F TEI16

EN-DC Cell reselection

[R2-2007962](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007962.zip) Correction to RRC connection release procedure without security for EN-DC cell reselection Samsung Electronics Co., Ltd CR Rel-16 36.331 16.1.1 4418 - F TEI16

NR\_newRAT-Core

[R2-2007945](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007945.zip) FR2 inter-RAT measurement gap requirement indication Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.1.0 0397 - F NR\_newRAT-Core

[R2-2008007](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008007.zip) CR on UE behavior with E-UTRA cell selection upon mobility from NR failure for enhanced EPS voice fallback Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1969 - F TEI16

TEI16 New Proposals

[R2-2007549](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007549.zip) On combined RRC procedures Nokia, Nokia Shanghai Bell, Ericsson discussion Rel-16 TEI16 R2-2004949

[R2-2007557](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007557.zip) RRC processing delays for combined procedures Nokia, Nokia Shanghai Bell, Ericsson CR Rel-16 38.331 16.1.0 1288 5 F TEI16 R2-2004950

[R2-2007234](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007234.zip) Discussion on UE behaviours for access barring alleviation Google Inc. discussion 38.331 TEI16

[R2-2008067](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008067.zip) Issue on ping pong state transition for sidelink UE Xiaomi communications, China Mobile, Apple, Huawei discussion

[R2-2008068](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008068.zip) Introduction of Sidelink Data Inactivity monitoring Xiaomi communications, China Mobile, Apple, Huawei CR Rel-16 38.331 16.1.0 1984 - B 5G\_V2X\_NRSL-Core

[R2-2008069](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008069.zip) Introduction of Sidelink Data Inactivity monitoring Xiaomi communications, China Mobile, Apple, Huawei CR Rel-16 38.321 16.1.0 0877 - B 5G\_V2X\_NRSL-Core

[R2-2008070](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008070.zip) Introduction of Sidelink Data Inactivity monitoring Xiaomi communications, China Mobile, Apple, Huawei CR Rel-16 38.306 16.1.0 0401 - B 5G\_V2X\_NRSL-Core

Late

# 7 Rel-16 EUTRA Work Items

Essential corrections

## 7.1 EUTRA Rel-16 General

### 7.1.1 Cross WI RRC corrections

[R2-2007737](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007737.zip) Correction on RRC re-establishment procedure ASUSTeK CR Rel-16 36.331 16.1.1 4407 - F TEI16

### 7.1.2 Feature Lists and UE capabilities

[R2-2006512](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006512.zip) LS on further updated Rel-16 RAN1 UE features list for LTE (R1-2005118; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_terr\_bcast-Core, 5G\_V2X\_NRSL-Core, TEI16 To:RAN2 Cc:RAN4

[R2-2006525](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006525.zip) LS on Rel-16 RAN4 UE features lists for LTE and NR (R4-2009173; contact: NTT DOCOMO) RAN4 LS in Rel-16 To:RAN2 Cc:RAN1

### 7.1.3 Other

Other issue that do not fit under any other topic.

[R2-2007655](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007655.zip) Editorial changes Ericsson CR Rel-16 36.321 16.1.0 1495 - F LTE\_eMTC5-Core, NB\_IOTenh3-Core, 5G\_V2X\_NRSL-Core

## 7.2 Additional MTC enhancements for LTE

(LTE\_eMTC5-Core; LTE\_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: RP192875;)

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

Some sub-items in 7.2 and 7.3 may be treated jointly.

Email max expectation: 5-6 email threads

### 7.2.1 General and Stage 2 corrections

Including incoming LSs

[R2-2006506](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006506.zip) LS on RAN1 clarification on MWUS frequency allocation (R1-2004952; contact: Ericsson) RAN1 LS in Rel-16 LTE\_eMTC5-Core To:RAN2

### 7.2.2 Mobile-terminated MT early data transmission EDT corrections

MT Early Data transmission for MTC and NB-IoT is treated jointly under this AI.

### 7.2.3 Scheduling multiple DL/UL transport blocks corrections

Scheduling multiple DL/UL transport blocks for MTC and NB-IoT is treated jointly under this AI.

### 7.2.4 Coexistence with NR corrections

Coexistence with NR for MTC and NB-IoT is treated jointly under this AI.

[R2-2006858](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006858.zip) Clarification on subframe level resource reservation for eMTC ZTE Corporation, Sanechips CR Rel-16 36.331 16.1.1 4358 - F LTE\_eMTC5-Core

### 7.2.5 Connection to 5GC corrections

Connection to 5GC for MTC and NB-IoT is treated jointly under this AI.

[R2-2006859](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006859.zip) Measurement requirement for eMTC UE in RRC\_INACTIVE state ZTE Corporation, Sanechips discussion LTE\_eMTC5-Core

[R2-2006860](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006860.zip) Draft LS to RAN4 on measurement requirement for eMTC UE in RRC\_INACTIVE state ZTE Corporation, Sanechips LS out LTE\_eMTC5-Core To:RAN4

[R2-2007341](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007341.zip) Corrections to connection to 5GC for eMTC Huawei, HiSilicon CR Rel-16 36.331 16.1.0 4381 - F LTE\_eMTC5-Core

### 7.2.6 Other MTC specific corrections

Including corrections related to Quality report in Msg3, MPDCCH performance improvement using CRS, Improvements for non-BL UEs, Stand-alone deployment, Mobility enhancements.

[R2-2006792](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006792.zip) Early UE capability retrieval enhancements for eMTC connecetd to 5GC Qualcomm Inc, Sierra Wireless, Thales, Telus, ZTE Corporation, TurkCell discussion Rel-16 LTE\_eMTC5-Core R2-2004841

[R2-2007695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007695.zip) RRC CR for early UE capability retrieval for eMTC connected to 5GC Qualcomm Inc,Sierra Wireless, Thales, Telus, ZTE Corporation,TurkCell CR Rel-16 36.331 16.1.1 4400 - F LTE\_eMTC5-Core

[R2-2007894](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007894.zip) [Draft] Reply LS on early UE capability retrieval for eMTC Qualcomm Inc LS out Rel-16 LTE\_eMTC5-Core To:SA2 Cc:CT1, RAN3

### 7.2.7 MTC UE capabilities corrections

[R2-2007340](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007340.zip) Addition of missing capabilities for eMTC R16 Huawei, HiSilicon CR Rel-16 36.306 16.1.0 1780 - F LTE\_eMTC5-Core

## 7.3 Additional enhancements for NB-IoT

(NB\_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: RP-200293)

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

Some sub-items in 7.2 and 7.3 may be treated jointly.

Email max expectation: 5-6 email threads

### 7.3.1 General and Stage 2 Corrections

Including incoming LSs etc

[R2-2006519](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006519.zip) Reply LS on assistance indication for WUS (R3-204175; contact: Qualcomm) RAN3 LS in Rel-15 NB\_IOTenh3-Core, LTE\_eMTC5-Core To:SA2, RAN2 Cc:CT1

[R2-2007337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007337.zip) Miscellaneous corrections for Rel-16 NB-IoT Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4380 - F NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2007338](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007338.zip) Miscellaneous corrections to NB-IoT and eMTC Rel-16 enhancements Huawei, HiSilicon CR Rel-16 36.300 16.2.0 1300 - F NB\_IOTenh3-Core, LTE\_eMTC5-Core

### 7.3.2 UE-group wake-up signal (WUS) Corrections

UE group wake Up signal for MTC and NB-IoT is treated jointly under this Agenda Item.

[R2-2007336](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007336.zip) Corrections to GWUS Huawei, HiSilicon CR Rel-16 36.304 16.1.0 0809 - F NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2007567](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007567.zip) Group WUS corrections Qualcomm Incorporated CR Rel-16 36.304 16.1.0 0810 - F NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2007568](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007568.zip) WUS corrections Qualcomm Incorporated CR Rel-16 36.300 16.2.0 1304 - F LTE\_eMTC5-Core

### 7.3.3 Transmission in preconfigured resources corrections

Transmission in preconfigured resources for MTC and NB-IoT is treated jointly under this Agenda Item.

[R2-2006842](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006842.zip) Starting legacy TA timer for PUR fallback ZTE Corporation, Sanechips discussion NB\_IOTenh3-Core

[R2-2006846](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006846.zip) HARQ feedback for PUR response ZTE Corporation, Sanechips discussion NB\_IOTenh3-Core

[R2-2006848](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006848.zip) Correction on discarding PUR-RNTI ZTE Corporation, Sanechips CR Rel-16 36.321 16.1.0 1489 - F NB\_IOTenh3-Core

[R2-2006849](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006849.zip) Other corrections on 36321 for PUR ZTE Corporation, Sanechips CR Rel-16 36.321 16.1.0 1490 - F NB\_IOTenh3-Core

[R2-2006980](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006980.zip) Addition of PUR RNTI in E-UTRA related UE identities Qualcomm Inc CR Rel-16 36.300 16.2.0 1297 - F LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2007339](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007339.zip) Discussion on carrier configuration for PUR Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core

[R2-2007365](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007365.zip) Correction to discard of PUR-RNTI Ericsson CR Rel-16 36.321 16.1.0 1494 - F LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2007398](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007398.zip) TA validation check for HARQ feeback to PUR response LG Electronics UK discussion Rel-16

[R2-2007738](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007738.zip) Impact on D-PUR TA timer due to reconfiguration of PUR periodicity and offset ASUSTeK discussion Rel-16 NB\_IOTenh3-Core

[R2-2007739](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007739.zip) HARQ feedback in RRC\_IDLE ASUSTeK discussion Rel-16 36.321 NB\_IOTenh3-Core

[R2-2007901](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007901.zip) CR for starting legacy TA timer for PUR fallback ZTE Corporation, Sanechips CR Rel-16 36.300 16.2.0 1310 - F NB\_IOTenh3-Core

[R2-2007987](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007987.zip) CR for HARQ feedback for PUR response ZTE Corporation, Sanechips CR Rel-16 36.321 16.1.0 1503 - F NB\_IOTenh3-Core

### 7.3.4 Other NB-IoT Specific corrections

NB-IoT specific topics

[R2-2006839](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006839.zip) Correction on initiation of RRCConnectionReestablishmentRequest Ericsson, ETRI CR Rel-16 36.331 16.1.1 4355 - F NB\_IOTenh3-Core

[R2-2006850](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006850.zip) Correction on schedulingRequestConfig release ZTE Corporation, Sanechips CR Rel-16 36.331 16.1.1 4357 - F NB\_IOTenh3-Core

[R2-2006851](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006851.zip) Minor corrections on 36304 for NB-IoT ZTE Corporation, Sanechips CR Rel-16 36.304 16.1.0 0804 - F NB\_IOTenh3-Core

[R2-2007335](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007335.zip) Correction to NB-IoT supported functionality in idle mode Huawei, HiSilicon CR Rel-16 36.304 16.1.0 0808 - F NB\_IOTenh3-Core

### 7.3.5 NB-IoT UE capabilities corrections

## 7.4 Even further mobility enhancement in E-UTRAN

(LTE\_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed: June 20; WID: [RP-190921](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_84\Docs\RP-190921.zip))

Documents under 7.4 will be treated together with documents in 6.7

### 7.4.1 General and Stage 2 Corrections

Including incoming LSs (if any)

### 7.4.2 DAPS handover Corrections

This AI jointly addresses corrections to NR and LTE DAPS.

Including corrections to control and user plane for DAPS HO.

[R2-2006682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006682.zip) Corretion on the RLF for LTE DAPS vivo CR Rel-15 36.331 15.10.0 4353 - F LTE\_feMob-Core

[R2-2006791](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006791.zip) PHR reporting format for DAPS Handover Qualcomm Inc, Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2006798](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006798.zip) Clarification on single entry PHR for DAPS vivo discussion Rel-16 NR\_Mob\_enh-Core

[R2-2006935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006935.zip) Support of DAPS handover without key change Intel Corporation discussion Rel-16 NR\_Mob\_enh-Core

[R2-2007194](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007194.zip) Handling of expiry of dataInactivityTimer for DAPS NEC discussion Rel-16 LTE\_feMob-Core

[R2-2007268](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007268.zip) Correction to RLC entities creation for DAPS Ericsson CR Rel-16 38.331 16.1.0 1816 - F NR\_Mob\_enh-Core

[R2-2007269](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007269.zip) Correction to RLC entities creation for DAPS Ericsson CR Rel-16 36.331 16.1.1 4372 - F NR\_Mob\_enh-Core

[R2-2007270](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007270.zip) Time misalignment in DAPS DRB configuration (Alt.1) Ericsson CR Rel-16 38.331 16.1.0 1817 - F NR\_Mob\_enh-Core

[R2-2007271](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007271.zip) Time misalignment in DAPS DRB configuration (Alt.2) Ericsson CR Rel-16 38.331 16.1.0 1818 - F NR\_Mob\_enh-Core

[R2-2007272](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007272.zip) Time misalignment in DAPS DRB configuration (Alt.1) Ericsson CR Rel-16 36.331 16.1.1 4373 - F NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2007273](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007273.zip) Time misalignment in DAPS DRB configuration (Alt.2) Ericsson CR Rel-16 36.331 16.1.1 4374 - F NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2007274](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007274.zip) Clarification of the T304 informative table for DAPS HO Ericsson CR Rel-16 38.331 16.1.0 1819 - F NR\_Mob\_enh-Core

[R2-2007308](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007308.zip) Discussion on source release indication Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core

[R2-2007309](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007309.zip) Discussion on releasing SCells Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core

[R2-2007310](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007310.zip) Correction on TS38.331 for RLF handling in DAPS Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1830 - F LTE\_feMob-Core

[R2-2007311](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007311.zip) Correction on TS38.331 for RRC connection re-establishment in DAPS Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1831 - F LTE\_feMob-Core

[R2-2007358](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007358.zip) Clarification on no DAPS HO in MR-DC Nokia, Nokia Shanghai Bell CR Rel-16 36.300 16.2.0 1301 - F LTE\_feMob-Core

[R2-2007456](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007456.zip) Clarification on TS38.331 for DAPS Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1845 - F NR\_Mob\_enh-Core

[R2-2007481](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007481.zip) Incorrect restriction for RLC UM radio bearers Ericsson CR Rel-16 36.331 16.1.1 4385 - F LTE\_feMob-Core

[R2-2007496](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007496.zip) DAPS handover corrections Ericsson CR Rel-16 36.300 16.2.0 1302 - F LTE\_feMob-Core

[R2-2007497](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007497.zip) DAPS handover corrections Ericsson CR Rel-16 38.300 16.2.0 0278 - F NR\_Mob\_enh-Core

[R2-2007503](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007503.zip) Corretion on the RLF for NR DAPS vivo CR Rel-16 38.331 16.1.0 1850 - F NR\_Mob\_enh-Core

[R2-2007523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007523.zip) PHR for DAPS Ericsson discussion Rel-16 LTE\_feMob-Core

[R2-2007665](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007665.zip) Corrections to T304 expiry during DAPS Samsung CR Rel-16 38.331 16.1.0 1875 - F NR\_Mob\_enh-Core

[R2-2007666](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007666.zip) Aligning terminologies for handling of L2 entities in DAPS Samsung CR Rel-16 38.331 16.1.0 1876 - F NR\_Mob\_enh-Core

[R2-2007692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007692.zip) MAC CR for PHR reporting format for LTE DAPS handover Qualcomm Inc, Huawei, HiSilicon CR Rel-16 36.321 16.1.0 1496 - F LTE\_feMob-Core

[R2-2007693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007693.zip) RRC CR for PHR reporting for LTE DAPS handover Qualcomm Inc, Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4399 - F LTE\_feMob-Core

[R2-2007710](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007710.zip) No support of DAPS HO for a CHO candidate cell ZTE Corporation, Sanechips, Ericsson CR Rel-16 38.331 16.1.0 1888 - F NR\_Mob\_enh-Core

[R2-2007711](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007711.zip) No support of DAPS HO for a CHO candidate cell ZTE Corporation, Sanechips, Ericsson CR Rel-16 36.331 16.1.0 4406 - F LTE\_feMob-Core

[R2-2007788](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007788.zip) Correction for SRB handling of DAPS HOF (36.331) SHARP Corporation CR Rel-16 36.331 16.1.1 4411 - F LTE\_feMob-Core

[R2-2007789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007789.zip) Correction for SRB handling of DAPS HOF (38.331) SHARP Corporation CR Rel-16 38.331 16.1.0 1904 - F LTE\_feMob-Core

[R2-2007790](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007790.zip) Potential security issue on DAPS handover SHARP Corporation discussion Rel-16 LTE\_feMob-Core

[R2-2007791](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007791.zip) [Draft] LS to SA3 on security handling for DAPS handover SHARP Corporation LS out Rel-16 LTE\_feMob-Core To:SA3

[R2-2007893](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007893.zip) Correction for PDCP status report LG Electronics Inc. CR Rel-16 36.323 16.1.0 0287 - F LTE\_feMob-Core

[R2-2007903](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007903.zip) Clarification on the UEAssistanceInformation for DAPS vivo discussion Rel-16 NR\_Mob\_enh-Core

[R2-2008072](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008072.zip) Correction on TS36.331 for RLF handling in DAPS Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4423 - F LTE\_feMob-Core

[R2-2008073](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008073.zip) Correction on TS36.331 for RRC connection re-establishment in DAPS Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4424 - F LTE\_feMob-Core

[R2-2008074](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008074.zip) Correction on TS36.300 for uplink data switching in DAPS Huawei, HiSilicon CR Rel-16 36.300 16.2.0 1312 - F LTE\_feMob-Core

[R2-2008075](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008075.zip) Correction on TS38.300 for source fallback in DAPS Huawei, HiSilicon CR Rel-16 38.300 16.2.0 0291 - F NR\_Mob\_enh-Core

[R2-2008076](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008076.zip) Correction on TS38.300 for uplink data switching in DAPS Huawei, HiSilicon CR Rel-16 38.300 16.2.0 0292 - F NR\_Mob\_enh-Core

### 7.4.3 UE capability corrections

Including UE capability aspects of LTE mobility WI.

[R2-2006932](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006932.zip) Correction on LTE MOB capability Intel Corporation, China Telecom, Samsung CR Rel-16 36.331 16.1.1 4362 - F LTE\_feMob-Core

[R2-2006933](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006933.zip) Correction on LTE MOB capability Intel Corporation, China Telecom, Samsung CR Rel-16 36.306 16.1.0 1779 - F LTE\_feMob-Core

[R2-2007458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007458.zip) Correction on TS 36.331 for DAPS UE capabilities Huawei, HiSilicon CR Rel-16 36.331 16.1.1 4384 - F LTE\_feMob-Core

[R2-2007459](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007459.zip) Correction on TS 36.306 for DAPS Huawei, HiSilicon CR Rel-16 36.306 16.1.0 1781 - F LTE\_feMob-Core

### 7.4.4 Other corrections

Only corrections not fitting other agenda items.

Including CHO aspects that are LTE-specific without equivalent NR impacts.

[R2-2007762](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007762.zip) Correction on CHO for LTE-5GC Huawei, HiSilicon CR Rel-16 36.300 16.2.0 1308 - F LTE\_feMob-Core

[R2-2007763](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007763.zip) Correction on TS 36.300 for CHO Huawei, HiSilicon CR Rel-16 36.300 16.2.0 1309 - F LTE\_feMob-Core

## 7.5 LTE Other WIs

(LTE\_terr\_bcast-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_high\_speed\_enh2-Core; LTE TEI16 Non-positioning)

(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)

[R2-2007844](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007844.zip) Minor changes collected by Rapporteur Samsung CR Rel-16 36.331 16.1.1 4414 - F LTE\_high\_speed\_enh2-Core, TEI16

## 7.6 LTE Positioning

(NavIC, LTE TEI16 Positioning)

# 8 Rel-17 NR Work Items

## 8.1 NR Multicast

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: [RP-201038](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201038.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

Focus for this meeting: a) get a common understanding of the WID, b) review architecture assumptions (functional split), c) confirm WG work splits, Clarify expectations on other groups, if any. d) get technical proposals on the table for questions and scrutiny with focus on Connected mode UEs, and also to what extent solutions are expected to be reused between Idle / Inactive vs Connected mode UEs.

### 8.1.1 Organizational, Requirements, Scope and Architecture

Including stage 2 proposals

Organizational

[R2-2007024](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007024.zip) Rel-17 NR MBS workplan Huawei, CMCC, HiSilicon discussion Rel-17 NR\_MBS-Core

* Note

General

[R2-2007412](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007412.zip) Initial considerations of NR Multicast CMCC discussion Rel-17 NR\_MBS-Core

P1

- vivo think RP has discussed Inter-RAT MBMS service. We might need to support such service continuity.

- MTK think NR SA is priority, maybe not sure there is time to go through other case.

- LG think we have many objectives and prefer to focus in NR SA

- Oppo think it is too early to exclude MR-DC.

- QC think NR SA is the baseline but think scenarios where NR is the anchor can be considered. And think the IRAT service continuity need to be addressed by SA2.

- Huawei think NR SA, NR DC, NE DC can be considered.

P3

- Huawei think R3 has alredy started a terminology discussion, and companies should input to that one.

P5

- CMCC think the WID says “unified solution” so we should clarify.

- QC think Multicast and Broadcast are different things and with Multicast the UEs are in Connected and that are for differnet services. QC are not sure about how Idle shall work.

- LG support to have commonality. Intel think we should have maximum commonality. Apple think we should try to make the solution same for Idle and Connected.

- Chair think that Ilde and Connected mode delivery can have different characteristics.

- MTK think P5 is a good proposal.

- vivo think we should priority conn. Think it is difficult to have commonality.

- Huawei think Connected and Idle will support diffierent set of services and operator deployment may be differnet dep on service.

- Samsung think this is too early.

- ZTE agrees that Mcast abd Bcast is different, and for Bcast a unified solution should be done.

- NEC think it is clear that different services will require RRC connected, so we should assume to have Ericsson agrees to prioritize connected. Ericsson think MBS is Idle is not required

- Nokia think this is clear in the WID, we shold have commonality.

- BT think that if Connected and Idle become very different it shold be possible to deply only Connected or Only Idle.

- Chair: Many companies think that Idle and Connected solutions may have significant differences. FFS what it means in the end.

* Focus initially on NR SA, TBD to what extent other scenarios NR DC, NE DC can be supported.
* Confirm Will support PTM transmission in a cell.

[R2-2006593](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006593.zip) Discussion on Requirement and Architecture of MBS CATT discussion Rel-17 NR\_MBS-Core

DISCUSSION

P2

- QC wonder it is to clarify Unicast PDU session. CATT think that PDU session MBS session etc need to be clarified.

- CATT think we will need to know how these are related. CATT and QC think there is always a PDU session and MBS session 1-to-1 mapped for eash UE receiving multicast, and there may be an impact to mobility.

- MTK think we don’t need to send an LS. Apple agrees. CMCC think this is under discussion in SA2.

P3

- Chair wonder If we need to take this into account now.

- Oppo think this is unclear.

- Huawei think the transmission area is SFN transmission area, or Service Area, and Huawei think this is up to network.

- Nokia think this should be for R3 and SA2, not a focus for R2.

- LG think that SFN standardization is ruled out.

- QC think transmission area is SFN and will be an areas served by a single DU.

- vivo think this is the area where MBS service is available for Idle UEs.

P4/5

- Huawei think that was R2 can do is to minimize interruption, data loss etc. Huawei think we need to support V2X so the requirements are very high.

- Lenovo think lossless shall be supported, as the target verticals need this.

- MTK think these requirements map to QoS and we don’t need to clarify those. Futurewei agrees.

- CATT think whether we need to use RLC-AM depends on the requirements.

- CMCC think the requirements are diverse.

- ZTE think lossless mobility is not needed. ZTE think that overdesign shold be avoided.

- Ericsson think that in the end we need to understand this, and think that in connected mode we can have much higher requirements than for Idle.

* Noted

[R2-2006983](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006983.zip) Scope and solution approach for NR MBS Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

DISCUSSION

- QC think multicast can be delivered in Connected, FFS if it can be delivered in Idle

- Vivo think we could support to distribute and optimize also the individual traffic delivery. Nokia think this is not the intention os SA2. LG thkn PTM and PTP is for shared delivery

- Apple think that some NAS provedure is needed to receive the service.

- Chair proposes to confirm: We will, for multicast services introduce support for PTP and PTM transmission of shared traffic delivered by 5GC, at least for connected mode.

- Huawei think we should add connected mode, Oppo agreed

- ZTE think we need to include broadcast. Nokia think not, and think this has been decided in SA2. QC also think it is clear that Bcast will not be included (key issue 5)

- Futurewei would like to prioritize a common solution, supporting both Idle and Connected.

* Confirm that We will, for multicast services introduce support for PTP and PTM transmission of shared traffic delivered by 5GC, at least for connected mode (this is not intended to exclude other cases)

[R2-2007124](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007124.zip) RAN2 Study on the NR MBMS Apple discussion Rel-17 NR\_MBS-Core

[R2-2006793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006793.zip) NR Multicast Radio Bearer Architecture aspects Qualcomm Inc discussion Rel-17 NR\_MBS-Core

[R2-2006804](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006804.zip) General considerations for MBS in RRC\_CONNECTED OPPO discussion Rel-17 NR\_MBS-Core

[R2-2006952](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006952.zip) Consideration of L2 protocol impact by MBS Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2007025](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007025.zip) Stage 2 aspects for NR MBS Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2007639](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007639.zip) Overview of NR MBS work item Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2007993](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007993.zip) Consideration on BWP and beam in NR multicast LG Electronics Inc. discussion

[R2-2007033](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007033.zip) Overview of NR MBS vivo discussion

[R2-2006574](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006574.zip) Overview on NR MBS Architecture MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2007177](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007177.zip) NR multicast architecture and SC-PTM Sony discussion Rel-17 NR\_MBS-Core

[R2-2007442](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007442.zip) Scope and Architecture analysis of NR MBS ZTE, Sanechips discussion Rel-17

[R2-2007550](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007550.zip) Discuss NR MBS architecture and protocol stack Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2007636](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007636.zip) General framework for MBS Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2007672](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007672.zip) On Stage-2 aspects and overview of NR MBS Samsung discussion NR\_MBS-Core

[R2-2007774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007774.zip) Initial consideration of NR MBS Kyocera discussion Rel-17 NR\_MBS

[R2-2008031](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008031.zip) Discussion on user-plane structure for NR multicast LG Electronics Inc. discussion Rel-17 NR\_MBS-Core

### 8.1.2 Connected mode UEs

#### 8.1.2.1 Dynamic PTM PTP switch with service continuity

[R2-2006794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006794.zip) NR Multicast dynamic PTM PTP switch with service continuity Qualcomm Inc discussion Rel-17 NR\_MBS-Core

Chair summary, two main aspects:

- gNB dynamically decides whether to deliver multicast data by PTM or PTP.

- Loss-less (or low loss or duplicate handling) behaviour is support by PDCP.

DISCUSSION

- Huawei think Security is not an issue.

- Nokia agrees with the first bullet.

- Nokia wonder it the intention is to have ARQ in PDCP. QC think PDCP can do very exact switching (e.g. if common PDCP).

- FW think we should say that protocol fiunctions of PDCP like reordering, duplicate handline etc need to be supported. Convida agrees.

- Ericsson agrees with the first bullet, and for e second point maybe a common PDCP could be used but would like to do this in the DU, This may impact also R3.

- Fujitsu think QC arch is that RLC has two legs, which layer will deceide which leg. QC think this is done at the PDCP layer, and RLC is independent per leg.

- vivo think that PDCP doesn’t have to be this layer.

- CATT think that loss-less is only for RLC-AM bearers, and we should not discuss loss-less for PDCP until that has been decided

- Samsung think that reliability will be done by HARQ, for PDCP ti focus on interruption

- Lenovo think we need to decide if to have both PTM and PTP for a UE.

* For a UE, gNB dynamically decides whether to deliver multicast data by PTM or PTP (Shared delivery)
* FFS which layer(s) handles reliability (in general), inorder delivery / duplicate handling, and it is FFS how it works at PTM PTP switch.

[R2-2007015](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007015.zip) Simultaneous transmission of multicast/unicast NEC discussion

[R2-2007631](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007631.zip) Protocol structure and bearer modelling for NR MBS Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2007026](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007026.zip) Dynamic switch between PTP and PTM for MBS bearer Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2006575](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006575.zip) UE Reception Model of NR MBS Radio Bearer and its Dynamic PTM/PTP switch MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2006982](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006982.zip) Dynamic change between PTM and PTP transmission in gNB Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2006594](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006594.zip) Discussion on Dynamic PTM and PTP Switch with Service Continuity CATT discussion Rel-17 NR\_MBS-Core

[R2-2007637](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007637.zip) Dynamic switch between PTM and PTP for service continuity Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2006569](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006569.zip) Radio Bearer based Multicast PTM and PTP mode switching TCL Communication Ltd. discussion Rel-17 NR\_MBS

[R2-2006803](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006803.zip) Dynamic PTM and PTP switching with service continuity OPPO discussion Rel-17 NR\_MBS-Core

[R2-2007248](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007248.zip) Counting scheme for dynamically switching PTM and PTP ITRI discussion NR\_MBS-Core

[R2-2007034](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007034.zip) Dynamic PTM PTP switch for RRC Connected UE vivo discussion

[R2-2007053](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007053.zip) Consideration on switching between PTP and PTM Spreadtrum Communications discussion

[R2-2007178](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007178.zip) NR multicast in connected mode Sony discussion Rel-17 NR\_MBS-Core

[R2-2007134](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007134.zip) Discussion on delivery mode switch with service continuity in NR multicast KT Corp. discussion

[R2-2007413](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007413.zip) Discussion on dynamic delivery mode switch CMCC discussion Rel-17 NR\_MBS-Core

[R2-2007443](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007443.zip) Delivery mode switching for NR MBS ZTE, Sanechips discussion Rel-17

[R2-2007466](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007466.zip) Protocols and Dynamic Switching for 5G MBS PTP and PTM Lenovo, Motorola Mobility discussion Rel-17

[R2-2007551](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007551.zip) Discuss dynamic change of MBS delivery method Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2007992](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007992.zip) Dynamic bearer type change LG Electronics Inc. discussion

[R2-2008063](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008063.zip) Transfer Type Change with Service Continuity Samsung discussion Rel-17 NR\_MBS-Core

#### 8.1.2.2 Mobility with Service continuity

[R2-2007027](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007027.zip) Service continuity during mobility for MBS Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

DISCUSSION

- Oppo think we can consider all cases for handover, and think there will be a whole container of control information at HO, Agree with p4.

- P1 QC think we should discuss all scenarios. Agree with P2, P3, QC think all scenarios is considered. Can agree to send an LS.

- CMCC also think we should focus on Shared delivery, and think a key is to have commonality between HO and PTP PTM switch

- Nokia agrees with P1, 2, 3, but have some concerns on P4, this may be complex for the network.

- MTK has the same understanding as Huawei on P1, and think now we should focus on MBS-MBS case. Support P4.

- FW think MBS-to-Unicast HO is complex. Support P2 and P3, but are not sure whether P4 is needed, in LTE we didn’t need this.

- CATT agree with P1, think P2 and P3 is R3, P4: think this is R3 scope.

- Samsung support P1 and 2, Do not support P3 and P4, think this is not required (loss-less), and also think P4 is complex for the network.

- Intel agree w P1, P2 need some more thinking, P4 think there could be some loss. Don’t think we shall ask SA2.

- vivo agree p123, have concerns with P4, wonder about packets in different shared channels.

- NEC agree P1 and P2, for P3 P4 not sure lossless is required.

- LG partially support P1 and P2

- Convida think it can be useful to clarify terminology.

- ZTE think P1 makes sense. Have concerns on P4.

- Apple think we need requiremens from SA2. Huawei think the requirements for V2X are already clear.

- Ericsson think that requirements for service continuity are already specified e.g. for ciritical communication.

* Focus on MBS-MBS scenario initially (i.e. shared delivery), including both PTM and PTP (if applicable). Other scenarios later, TBD.
* Requirements for lossless mobility are TBD. Assume for now that R2 will anyway discuss service continuity functionality for low or no data loss.

[R2-2006796](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006796.zip) NR Multicast mobility enhancements with service continuity Qualcomm Inc discussion Rel-17 NR\_MBS-Core

DISCUSSION

- MTK think it is too early to discuss variants of Handover, DAPS might be needed but thikn we can focus on legacy HO first. Samsung think legacy HO can be the baseline.

- Nokia think it is important that we don’t duplicate functionality, and we should reuse what we have. QC deliberately not mention enhancements, but expect some adaptation is needed.

- Sony wonder what is the interest indication. QC thikn now he network knows and the UE doesn’t have to provide interest indication.

- Lenovo think we also need to consider unicast – MBS and think that for such cases, all Handover types can also be used.

- LG think we need confirmation from SA2 for P3. There might be some cases when the gNB doesn’t know,

- Samsung wonder if it has been agreed how the association is done, TMGI etc. Chair think there remains many details to be agreed.

- ZTE agrees with the proposed agreement for P2, ZTE agree with P3 for multicast.

- Huawei think we don’t need to agree on P3 now.

* R2 assumes that for Rel-17 NR multicast Mobility in Connected mode, handover (including variants) is the baseline, TBD exactly which variants.

[R2-2006802](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006802.zip) Discussion on mobility with MBS Service continuity OPPO discussion Rel-17 NR\_MBS-Core

[R2-2007414](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007414.zip) Discussion on MBS mobility with service continuity CMCC discussion Rel-17 NR\_MBS-Core

[R2-2006984](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006984.zip) Service Continuity for Connected mode UE NEC discussion

[R2-2006827](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006827.zip) Scenarios and Requirements for Mobility with Service Continuity MediaTek Inc. discussion

[R2-2008061](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008061.zip) MBS Mobility for Connected Mode UEs Samsung discussion Rel-17 NR\_MBS-Core

[R2-2006595](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006595.zip) Discussion on Mobility with Service Continuity in RRC\_CONNECTED CATT discussion Rel-17 NR\_MBS-Core

[R2-2007035](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007035.zip) MBS Service Continuity for RRC Connected UE vivo discussion

[R2-2007054](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007054.zip) Discussion on Mobility with Service continuity for connected UE Spreadtrum Communications discussion

[R2-2007444](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007444.zip) Discussion about basic mobility support in NR MBS ZTE, Sanechips discussion Rel-17

[R2-2007467](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007467.zip) PDCP Count Value Alignment to support of Loss-less handover for 5G MBS Lenovo, Motorola Mobility discussion Rel-17

[R2-2007552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007552.zip) Support MBS service continuity with mobility Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2007628](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007628.zip) Mobility for NR MBS Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2007991](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007991.zip) MBS service continuity LG Electronics Inc. discussion

#### 8.1.2.3 Other

Addtitional tdoc: 1

Dynamic Control of Transmission Area, Reliability. These topics are lower priority initially, and expected to not be treated at R2 111. Tdoc submission is allowed to allow coordination by cross-review of tdocs.

Reliability

[R2-2007633](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007633.zip) Mechanisms to improve reliability for UEs in RRC\_CONNECTED Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2008032](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008032.zip) Discussion on reliability improvement and UL feedback in NR multicast LG Electronics Inc. discussion Rel-17 NR\_MBS-Core

On the 2 papers above, Chair Summary, for PTM (and PTP):

- HARQ w feedback

- RLC-AM

- Dynamic Switching PTM PTP

- PDCP reliability, split/duplication etc.

DISCUSSION

- MTK thikn HARQ w feedback is good and expect RLC AM is needed. MTK think PDCP reliability is legacy ..

- Samsung think we need short latency for some UC in this WI, so HARQ feedback can be enoung, RLC-AM and plit bearer can be complex. Also dynamic switching is easy as it is network impl. Nokia agree with Samsung, and thikn it is good to keep this simple. CATT agrees as well, think RLC AM is not needed, PDCP not needed.

- QC think HARQ will be there, but RLC-AM is needed. Dynamic switching is good, and PDCP can be considered. RAN must provide high reliability.

- Oppo think L2 feedback is needed, but we need to decide the protocol stack first.

* R2 expect that there may be HARQ with feedback (for PTM) and this is specified by R1.

[R2-2006596](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006596.zip) Discussion on the Reliability of Broadcast/Multicast Service CATT discussion Rel-17 NR\_MBS-Core

[R2-2007415](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007415.zip) Discussion on MBS dynamic area control and reliability enhancements CMCC discussion Rel-17 NR\_MBS-Core

[R2-2006576](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006576.zip) Reliability Improvement for NR MBS Reception MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2008062](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008062.zip) Reliability Enhancement for MBS Samsung discussion Rel-17 NR\_MBS-Core

* [Post111-e][MBS] L2 Architecture ()

Scope: L2 architecure, have proposals on the table, find potential agreeements

Intended outcome:

Deadline: Next meeting

Transmission Area

[R2-2007036](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007036.zip) Discussion on dynamic control of transmission area for MBS vivo discussion

[R2-2007028](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007028.zip) Reliability enhancement and dynamic control of transmission area for NR MBS Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2007445](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007445.zip) Miscellaneous issues in NR MBS ZTE, Sanechips discussion Rel-17

### 8.1.3 Idle and Inactive mode UEs

[R2-2006597](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006597.zip) Consideration on Idle and Inactive mode UEs CATT discussion Rel-17 NR\_MBS-Core

DISCUSSION

- Chair: think the main proposal is that EUTRA SC PTM is the baseline for Idle/Inactive.

- FW think Idle do need to be supported. Think there is SIB overhead.

- Oppo think R2 cannot decide in service continuity. Support BWP and 3456

- MTK agrees with Oppo.

- NEC are not sure SIB oh will be a problem, NEC wonder if UEs need to go to connected for service. Not sure counting is needed.

- Ericsson think Idle mode is complex but think we can support Idle mode by going to connected mode, which means we have a high degree of re-use. Ericsson also think service continuity is complex. Ericsson are also concerned that a UE may reselect non-best cells on a frequency. Think we should agree that UE shall go to connected.

- Kyocera think it is difficult to have the same reliability as in Connected mode, but think we can reuse LTE and it is not so complex.

- vivo think mandating to go to connected can be an issue for the first connection setup (load), think we can use LTE solution, but can also conside signalling enhancements.

- Apple agrees with vivo, and think it is not reasonable to have all UEs in Connected mode.

- CMCC also think this need to be supported, and think we should reuse LTE mechanisms, e.g. SC-MCCH etc.

- ZTE has concerns with P1, Idle/inactive must be supported.

- QC think that companies are mixing up multicast and broadcast.

- Chair observations: Many proposals to reuse (to significant extent or even 100%) LTE SC-PTM for Idle/Inactive for NR. Some companies suggest to do control etc in connected also for Idle/Inactive delivery.

[R2-2007416](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007416.zip) Discussion on MBS supported UEs in RRC\_IDLE and RRC\_INACTIVE states CMCC discussion Rel-17 NR\_MBS-Core

[R2-2006795](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006795.zip) NR Multicast services and configuration for UEs in different RRC states Qualcomm Inc discussion Rel-17 NR\_MBS-Core

[R2-2007262](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007262.zip) NR Multicast in Idle and Inactive mode Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2007673](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007673.zip) RRC IDLE/ INACTIVE aspects of NR MBS Samsung discussion Rel-17 NR\_MBS-Core

[R2-2006801](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006801.zip) Discussion on MBS reception of idle or inactive mode UE OPPO discussion Rel-17 NR\_MBS-Core

[R2-2007014](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007014.zip) Some consideration for IDLE mode and IN\_ACTIVE mode UE NEC discussion

[R2-2007029](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007029.zip) IDLE/INACTIVE UE support for NR MBS Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2007037](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007037.zip) Discussion on Idle and Inactive mode UEs vivo discussion

[R2-2007055](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007055.zip) MBS for Idle and Inactive mode UE Spreadtrum Communications discussion

[R2-2007446](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007446.zip) MBS for UE in RRC\_INACTIVE/RRC\_IDLE State ZTE, Sanechips discussion Rel-17

[R2-2007896](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007896.zip) Group Based MBS Notification for Idle/Inactive mode UEs MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2008052](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008052.zip) NR MBS solution for UE in RRC\_IDLE or RRC\_INACTIVE state CHENGDU TD TECH LTD. discussion Rel-17

## 8.2 MR DC/CA further enhancements

(LTE\_NR\_DC\_enh2-Core; leading WG: RAN2; REL-17; WID: [RP-201040](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201040.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus for this meeting: a) get a common understanding of the WID b) get technical proposals on the table for questions and scrutiny.

### 8.2.1 Organizational, Requirements and Scope

Including work plan and any other rapporteur input.

[R2-2007676](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007676.zip) Work plan for R17 Further MR-DC enhancements WI Huawei Work Plan Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007677](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007677.zip) Status of the work on efficient SCell activation/deactivation Huawei discussion Rel-17 LTE\_NR\_DC\_enh2-Core

### 8.2.2 Efficient activation / deactivation mechanism for one SCG and SCells

[R2-2006756](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006756.zip) On Support of Activation/Deactivation for SCG InterDigital discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2006806](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006806.zip) Discussion on SCG suspension OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2006900](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006900.zip) Framework of SCG deactivation and activation ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007009](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007009.zip) Efficient Activation/Deactivation Mechanism for SCG and Scells CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007046](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007046.zip) Discussion on efficient activation mechanism for one SCG Spreadtrum Communications discussion

[R2-2007068](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007068.zip) On fast deactivation and activation of one SG and SCells Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007109](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007109.zip) Scoping the usage of SCG suspension Apple discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007215](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007215.zip) Efficient activation and deactivation mechanism for SCG and SCells vivo discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007236](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007236.zip) Enhancements for Rel-17 efficient activation/de-activation Intel Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007438](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007438.zip) Discussion on CPAC scenarios CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007598](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007598.zip) Efficient SCG/SCell (de)activation Ericsson discussion LTE\_NR\_DC\_enh2-Core

[R2-2007623](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007623.zip) Further enhancements regarding deactivation and resumption for R17 Samsung Telecommunications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007678](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007678.zip) Discussion on SCG deactivation and activation Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007748](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007748.zip) Efficient SCG activation/deactivation in MR-DC Qualcomm Incorporated discussion Rel-17

[R2-2007867](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007867.zip) Discussion on SCG suspension MediaTek Inc. discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007986](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007986.zip) Time-efficient SCG Activation mechanism LG Electronics discussion Rel-17

[R2-2007994](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007994.zip) Discussion of SCG activation/deactivation SHARP Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core

### 8.2.3 Conditional PSCell change / addition

[R2-2006695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006695.zip) Scope and scenario for CPAC vivo discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2006757](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006757.zip) Coexistence of CHO and CPC at the UE InterDigital discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2006805](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006805.zip) Discussion on conditional PSCell change and addition OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2006901](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006901.zip) Discussion on conditional PSCell addition/change ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2006976](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006976.zip) Overview of conditional PSCell addition NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2006977](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006977.zip) Inter-SN Conditional PSCell Change NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007010](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007010.zip) Scope and basic procedure for Conditional PSCell Addition/Change ??(CPAC)? CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007052](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007052.zip) Discussion on conditional PSCell addition or change Spreadtrum Communications discussion

[R2-2007089](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007089.zip) Discussion on conditional PSCell change and addition Apple discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007130](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007130.zip) Scenarios and General Principles of CPAC ETRI discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007237](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007237.zip) Rel-17 Conditional PSCell Addition Intel Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007364](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007364.zip) On the scope of Rel-17 CPAC Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007439](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007439.zip) Consideration on dormant SCG CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007553](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007553.zip) Inter node CPAC procedure and configuration discussion Futurewei discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007599](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007599.zip) Conditional reconfigurations Ericsson discussion LTE\_NR\_DC\_enh2-Core

[R2-2007624](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007624.zip) Further enhancements on conditional configuration for R17 Samsung Telecommunications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007679](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007679.zip) Discussion on Conditional PSCell addition/change Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2007749](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007749.zip) Conditional PSCell addition/change Qualcomm Incorporated discussion Rel-17

[R2-2007839](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007839.zip) Conditional PSCell addition and change in MR-DC Potevio discussion LTE\_NR\_DC\_enh2-Core

[R2-2007985](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007985.zip) Considerations of CPAC in Rel-17 LG Electronics discussion Rel-17

R2-2008079 Remaining issues of Conditional PSCell Addition NTT DOCOMO INC. discussion Rel-17 LTE\_NR\_DC\_enh2-Core Late

## 8.3 Multi SIM

(LTE\_NR\_MUSIM-Core; leading WG: RAN2; REL-17; WID: [RP-201309](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201309.zip))

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 0 threads

This item will not be treated at meeting. However it is expected to receive LSes that need to be replied, and it is exptected that the LSes will be discussed by email to next meeting. Companies may input in order to announce their interntions and thus facilitate coordination etc.

[R2-2006540](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006540.zip) Guidance for SA2 on Solution #16 for Key Issue 2 Vodafone discussion

[R2-2006627](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006627.zip) Consideration on the Work Scope for Multi-SIM CATT discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2006807](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006807.zip) Discussion on Multi-SIM OPPO discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2006916](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006916.zip) Considerations for Multi-SIM WI Objectives Charter Communications discussion Rel-17

[R2-2006944](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006944.zip) Handling of paging collision for Multi-SIM Qualcomm Incorporated discussion

[R2-2006981](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006981.zip) Consideration on Multi-SIM China Telecom discussion

[R2-2007129](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007129.zip) Coordination of concurrent communication for Multi-SIM Qualcomm Incorporated discussion

[R2-2007163](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007163.zip) Work plan for Multi SIM WI vivo, Charter Communications discussion

[R2-2007164](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007164.zip) Initial Considerations for Multi-SIM vivo discussion

[R2-2007179](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007179.zip) Discussion on Multi-SIM Sony, Convida Wireless discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2007191](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007191.zip) Support for Multi-SIM Devices MediaTek Inc. discussion Rel-17

[R2-2007207](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007207.zip) Overview of Multi-SIM ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2007208](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007208.zip) Consideration on the RAN2 issues on Multi-SIM ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2007352](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007352.zip) Clarification and Finalisation of Scope for MUSIM Work Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2007353](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007353.zip) Paging reception for MUSIM scenario Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2007357](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007357.zip) Support of UE capabilities coordination for Multi-USIM UEs China Telecommunications discussion

[R2-2007394](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007394.zip) Way forward for the progress of Multi-SIM WI in RAN2 Huawei, HiSilicon discussion

[R2-2007396](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007396.zip) Discussion on Multi-SIM WI Objectives 1 and 2 Huawei, HiSilicon discussion

[R2-2007418](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007418.zip) Discussion on the paging collision and interruption issues for multi-sim UEs CMCC discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2007602](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007602.zip) Graceful leaving for a MultiSIM device Ericsson discussion

[R2-2007603](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007603.zip) Paging collision avoidance Ericsson discussion

[R2-2007620](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007620.zip) RAN2 impacts of Multi-SIM support Futurewei Technologies discussion

[R2-2007740](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007740.zip) Mechanism for UE to notify network switch ASUSTeK discussion Rel-16 LTE\_NR\_MUSIM-Core

[R2-2007952](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007952.zip) General consideration for solving MUSIM problems Xiaomi Communications discussion

[R2-2007956](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007956.zip) Discussion of the coordinated leaving problem Xiaomi Communications discussion

[R2-2007961](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007961.zip) Solution analysis for R17 Multi-SIM KI#2 and KI#3 Intel Corporation discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2008020](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008020.zip) General considerations on potential RAN2 works for Multi-USIM devices Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2008021](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008021.zip) Overview on SA2 progress for Multi-USIM devices Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_MUSIM-Core

## 8.4 NR IAB enhancements

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-201293](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201293.zip))

Time budget: 0 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 0 threads

This item will not be treated at meeting. However some parts, e.g. scope clarifications and work split might be initiated by email to next meeting. Tdoc sumbission is allowed to facilitate coordination by tdocs cross-review.

[R2-2006964](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006964.zip) Workplan for Rel-17 IAB Qualcomm Incorporated (WI Rapporteur) Work Plan Rel-17

[R2-2008024](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008024.zip) Correction of text on measIdleCarrierListEUTRA and measIdleCarrierListNR LG Electronics France CR Rel-16 38.331 16.1.0 1975 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2008025](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008025.zip) Enhancements of Topological Resilience LG Electronics discussion Rel-17

[R2-2008026](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008026.zip) BH RLF enhancements LG Electronics discussion Rel-17

### 8.4.1 Enhancements to improve topology-wide fairness, multi-hop latency and congestion mitigation

[R2-2006624](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006624.zip) Consideration on Topology, Routing and Transport Enhancements CATT discussion Rel-17 NR\_IAB\_enh-Core

[R2-2006946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006946.zip) Congestion handling and traffic splitting in IAB Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

[R2-2006960](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006960.zip) Multi-hop scheduling and local routing enhancements for IAB AT&T discussion

[R2-2006965](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006965.zip) Simulations on fairness support in IAB topology Qualcomm Incorporated discussion Rel-17

[R2-2006966](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006966.zip) IAB flow and congestion control enhancements Qualcomm Incorporated discussion Rel-17

[R2-2007019](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007019.zip) Topology optimization in IAB NEC discussion

[R2-2007023](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007023.zip) Discussion on the Rel-17 scope of IAB enhancement Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

[R2-2007165](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007165.zip) Discussion on RLF handling enhancements vivo discussion

[R2-2007166](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007166.zip) Discussion on congestion mitigation enhancements vivo discussion

[R2-2007200](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007200.zip) Scoping out issues of topology-wide fairness, multi-hop latency and congestion mitigation Samsung Electronics GmbH discussion

[R2-2007201](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007201.zip) On topology-wide fairness Samsung Electronics GmbH discussion

[R2-2007295](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007295.zip) Consideration on routing enhancement LG Electronics Inc. discussion Rel-17 NR\_IAB\_enh-Core

[R2-2007312](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007312.zip) Miscellaneous enhancements for IAB network ZTE, Sanechips discussion Rel-17

[R2-2007487](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007487.zip) On the CP/UP separation Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

[R2-2007658](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007658.zip) Other Enhancements to IAB for NR Ericsson discussion

[R2-2007659](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007659.zip) User plane Latency in Multi-hop IAB Systems Ericsson discussion

[R2-2007840](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007840.zip) Rel. 17 IAB enhancements for fairness, multi-hop latency reduction, and congestion mitigation Futurewei Technologies discussion

[R2-2007865](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007865.zip) Further enhancements for R17 IAB Huawei, HiSilicon discussion Rel-16 NR\_IAB\_enh-Core

### 8.4.2 Topology adaptation enhancements, RAN2 scope

[R2-2006625](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006625.zip) Consideration Issues on Inter-CU migration CATT discussion Rel-17 NR\_IAB\_enh-Core

[R2-2006626](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006626.zip) Consideration on Enhancements to Reduce Service Interruption CATT discussion Rel-17 NR\_IAB\_enh-Core

[R2-2006947](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006947.zip) Enhancements to establish efficient topologies Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

[R2-2006948](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006948.zip) Backhaul failure recovery enhancments Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

[R2-2006961](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006961.zip) Enhancements to support IAB topology adaptation AT&T discussion

[R2-2006967](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006967.zip) Enhancements to BH RLF recovery for Rel-17 IAB Qualcomm Incorporated discussion Rel-17

[R2-2007167](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007167.zip) Consideration of Inter-CU IAB Migration vivo discussion

[R2-2007313](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007313.zip) Initial considerations on inter-donor migration ZTE, Sanechips discussion Rel-17

[R2-2007488](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007488.zip) Inter-donor topology adaptation Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

[R2-2007501](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007501.zip) Scope of topology adaptation issues for Rel-17 IAB Samsung Electronics Romania discussion

[R2-2007660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007660.zip) Scenarios of topology adaptation for IAB network Ericsson discussion

[R2-2007689](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007689.zip) Separation of CP/UP for improved CP robustness AT&T discussion

[R2-2007773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007773.zip) Initial consideration of topology adaptation enhancements for eIAB Kyocera discussion Rel-17 NR\_IAB\_enh

[R2-2007863](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007863.zip) Consideration of inter-CU migration Huawei, HiSilicon discussion Rel-16 NR\_IAB\_enh-Core

[R2-2007864](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007864.zip) Discussion on RLF handling issues Huawei, HiSilicon discussion Rel-16 NR\_IAB\_enh-Core

[R2-2007984](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007984.zip) RAN2 impacts of Rel.17 IAB topology adaptation enhancements Futurewei Technologies discussion

### 8.4.3 Duplexing enhancements, RAN2 scope

[R2-2007314](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007314.zip) Discussion on duplexing enhancement ZTE, Sanechips discussion Rel-17

## 8.5 NR IIoT URLLC

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-201310](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201310.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus to clarify the scope, understand the dependencies to other groups, get proposals on the table.

### 8.5.1 Organizational

Rapporteur input

[R2-2006921](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006921.zip) Work Plan for NR IIoT/URLLC Nokia Work Plan Rel-17 NR\_IIOT\_URLLC\_enh

### 8.5.2 Enhancements for support of time synchronization

Including requirements and scope

[R2-2006635](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006635.zip) Discussion on Time Synchronization in Rel-17 CATT discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2006697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006697.zip) Discussion on enhancements for support of time synchronization Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2006701](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006701.zip) Enhancements for support of time synchronization Ericsson discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2006719](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006719.zip) IIoT Enhancements for Support of Time Synchronization Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2006831](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006831.zip) Enhancements for time synchronization in TSN ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2006864](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006864.zip) Topics for time synchronization in IIoT Fujitsu discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2006906](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006906.zip) Propagation Delay Compensation for Reference Timing Delivery Qualcomm Incorporated discussion

[R2-2006922](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006922.zip) Discussion on enhancements for support of propagation delay compensation for accurate time synchronization Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2007141](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007141.zip) Consideration of TSN time synchronization enhancements OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2007145](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007145.zip) Discussion on the TSN enhancements vivo discussion

[R2-2007294](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007294.zip) Discussion on uplink time synchronization for TSN NTT DOCOMO INC. discussion Rel-17 Late

[R2-2007475](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007475.zip) Considerations on time synchronization enhancement Lenovo, Motorola Mobility discussion Rel-17

[R2-2007611](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007611.zip) On propagation delay compensation MediaTek Inc. discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2007627](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007627.zip) Enhancements for support of time synchronization Sequans Communications discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2007999](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007999.zip) Consideration on Time Synchronization for TSN in R17 CMCC discussion Rel-17

[R2-2008033](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008033.zip) Discussion on support of time synchronization LG Electronics Inc. discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2008059](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008059.zip) Enhancements for Timing Synchronization Samsung discussion Rel-17

### 8.5.3 Uplink enhancements for URLLC in unlicensed controlled environments

RAN2 aspects related to URLLC in unlicensed controlled environments. Initial discussion on potential impacts, including requirements and scope

[R2-2006636](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006636.zip) Uplink Enhancements for URLLC in Unlicensed Spectrum CATT discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2006696](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006696.zip) Discussion about uplink enhancements for URLLC in unlicensed controlled environments Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2006700](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006700.zip) Uplink enhancements for URLLC in unlicensed controlled environments Ericsson discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2006923](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006923.zip) Configured Grant Enhancement Harmonization for NR-U and URLLC Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2006939](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006939.zip) Uplink enhancements for URLLC in unlicensed controlled environments Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2007139](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007139.zip) Consideration on URLLC over NRU OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2007146](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007146.zip) Harmonizing CG enhancements in NR-U and URLLC/IIoT vivo discussion

[R2-2007204](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007204.zip) Potential aspects to be considered for the enhancements for URLLC in unlicensed controlled environments Lenovo, Motorola Mobility discussion Rel-17 NR\_IIOT\_URLLC\_enh-Perf

[R2-2007417](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007417.zip) Discussion on CG enhancement for URLLC in unlicensed controlled environments CMCC discussion Rel-17

[R2-2007532](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007532.zip) Disscusion on the hormination of enhanced configured grant in NRIIOT and NRU ZTE Corporation, Sanechips discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2007614](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007614.zip) IIoT operation in unlicensed controlled environments InterDigital discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2007884](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007884.zip) Support of IIoT on unlicensed spectrum LG Electronics UK discussion NR\_IIOT\_URLLC\_enh

[R2-2007958](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007958.zip) Uplink enhancements for controlled unlicensed operation Qualcomm Incorporated discussion

[R2-2007988](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007988.zip) Consideration on timers for URLLC/IIoT in unlicensed controlled environments III discussion Rel-17

[R2-2008060](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008060.zip) CG Harmonization for IIOT in Unlicensed Band Samsung discussion Rel-17

## 8.6 Small Data enhancements

(NR\_SmallData\_INACTIVE-Core; leading WG: RAN2; REL-17; WID: [RP-201305](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201305.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus to clarify the scope, understand the dependencies to other groups e.g. including context fetch and anchor relocation, understand RRC vs non-RRC methods (downselection will be needed), get proposals on the table, initial focus on RACH based schemes and common aspects.

### 8.6.1 Organizational

[R2-2007125](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007125.zip) RAN2 Study on the Small Data Enhancement Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007192](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007192.zip) Scope for Small Data Transmission Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007447](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007447.zip) Work plan for the INACTIVE small data WI Work Item Rapporteur (ZTE) Work Plan Rel-17

[R2-2007612](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007612.zip) UL small data transmission in inactive state InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

### 8.6.2 UL small data transmissions for RACH-based schemes

Including also parts that are common between RACH-based schemes and use of pre-configured PUSCH resources. Including Requirements and Scope as well as technical proposals.

[R2-2006550](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006550.zip) General Considerations on Small Data Transmission vivo discussion

[R2-2006551](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006551.zip) Supporting Small Data Transmission via RA procedure vivo discussion

[R2-2006582](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006582.zip) Common aspects between RACH and CG-based scheme Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2006583](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006583.zip) Small data transmission with RA-based schemes Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2006653 Small data transmission in RRC\_IACTIVE state ETRI discussion Withdrawn

[R2-2006713](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006713.zip) SDT mechanism on RRC/non-RRC based approaches and RACH requirements Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2006714](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006714.zip) Radio bearer configuration for SDT considering UE context relocation and CU/DU split Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2006772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006772.zip) Random Access based Small Data Transmission - Signaling Flow Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2006773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006773.zip) Random Access based Small Data Transmission - Details Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2006800](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006800.zip) Handling of small data transmission in RRC\_INACTIVE PANASONIC R&D Center Germany discussion

[R2-2006824](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006824.zip) The RACH-Based Small Data Transmission PANASONIC R&D Center Germany discussion

[R2-2006829](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006829.zip) Requirements and Solutions for INACTIVE Small Data Transmission MediaTek Inc. discussion

[R2-2006830](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006830.zip) Subsequent Transmission of Small data in INACTIVE MediaTek Inc. discussion

[R2-2006836](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006836.zip) Procedure of Small Data Transmission OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2006837](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006837.zip) The Conditions for Small Data Transmission in Inactive State OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2006845](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006845.zip) RACH based small data transmission ITL discussion

[R2-2006865](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006865.zip) Topics for small data transmission in INACTIVE Fujitsu discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2006991](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006991.zip) Requirements and scopes of Small Data Transmissions CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2006992](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006992.zip) General procedure analysis for Small Data Transmissions CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007047](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007047.zip) Discussion on UL small data transmissions for RACH-based schemes Spreadtrum Communications discussion

[R2-2007069](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007069.zip) Small data transmission in RRC\_INACTIVE state ETRI discussion

[R2-2007126](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007126.zip) Small data transmission via RACH procedure Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007180](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007180.zip) Discussion on different aspects of UL Small data transmissions in NR Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007195](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007195.zip) Initial consideration on RACH based SDT NEC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007197](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007197.zip) 2-step and 4-step based RACH Small Data transmission Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007432](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007432.zip) Scheme selection and scheme switch CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007433](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007433.zip) Basic procedure for data transmission in RRC inactive state CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007448](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007448.zip) Selection between RRC-based and RRC-less solutions for IDT ZTE Corporation, Sanechips, CSPG discussion Rel-17

[R2-2007449](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007449.zip) Details of RRC-based IDT ZTE Corporation, Sanechips, CSPG discussion Rel-17

[R2-2007469](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007469.zip) UL small data transmissions in 2-step RACH and 4-step RACH Lenovo, Motorola Mobility discussion Rel-17

[R2-2007479](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007479.zip) The basic principle for small data transmissions Lenovo, Motorola Mobility discussion Rel-17

[R2-2007489](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007489.zip) Small data transmission over pre-configured PUSCH resources Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

[R2-2007540](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007540.zip) RACH based NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007541](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007541.zip) RACH based uplink small data transmission with or without anchor relocation Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007564](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007564.zip) Design of RACH-based Small Data Transmission schemes and common aspects Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

[R2-2007613](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007613.zip) RACH-based UL small data transmission InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2007741](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007741.zip) Discussion on NR RRC for small data transmission ASUSTeK discussion Rel-16 NR\_SmallData\_INACTIVE-Core

[R2-2007742](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007742.zip) Discussion on RA procedure for small data transmission ASUSTeK discussion Rel-16 NR\_SmallData\_INACTIVE-Core

[R2-2007746](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007746.zip) considerations on small data transmission procedure in RRC\_inactive Beijing Xiaomi Mobile Software discussion

[R2-2007747](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007747.zip) UL transmission procedure using Pre-configured PUSCH resources in RRC\_inactive Beijing Xiaomi Mobile Software discussion

[R2-2007838](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007838.zip) Discussion on small data transmission Potevio discussion NR\_SmallData\_INACTIVE-Core

[R2-2007953](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007953.zip) Techniques for enabling NR small data transmissions in INACTIVE state Sierra Wireless, S.A. discussion Rel-17

[R2-2008013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008013.zip) Issues in dependency to other groups LG Electronics discussion NR\_SmallData\_INACTIVE-Core

[R2-2008015](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008015.zip) Considerations on UL small data transmission LG Electronics discussion NR\_SmallData\_INACTIVE-Core

## 8.7 NR Sidelink relay SI

(FS\_NR\_SL\_relay; leading WG: RAN2; REL-17; WID: [RP-193253](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-193253.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.7.1 Organizational

TR skeleton, rapporteur inputs, other organizational documents. Documents in this AI do not count towards the tdoc limitation.

[R2-2006531](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006531.zip) LS on Security Requirements for Sidelink/PC5 Relays (S2-2004750; contact: MediaTek) SA2 LS in Rel-17 FS\_5G\_ProSe To:SA3 Cc:RAN2, RAN3

[R2-2006601](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006601.zip) Work plan of R17 SL relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006602](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006602.zip) Skeleton of TR 38.836 v0.0.0 OPPO draft TR Rel-17 38.836 0.0.0 FS\_NR\_SL\_relay

[R2-2007038](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007038.zip) SL relay discussion in SI phase vivo discussion Rel-17

[R2-2007168](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007168.zip) ?[Draft]? LS to SA3 on the security related aspects for NR sidelink relay CATT LS out FS\_NR\_SL\_relay To:SA3

### 8.7.2 Scope, requirements, and scenarios

Clarify the required contents of the TR, high-level requirements, assumptions on supported scenarios. Including expectations on other groups if any.

[R2-2006554](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006554.zip) Discussion on sidelink relay study item scope and focus areas prioritization Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006570](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006570.zip) Scenarios and Assumptions on Sidelink Relay MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006572](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006572.zip) Architecture Options for Sidelink Relay MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006603](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006603.zip) Scenarios for sidelink relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006609](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006609.zip) Clarification on the Scenarios for NR Sidelink Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006717](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006717.zip) Requirements, Assumptions and Supported Scenarios for NR Sidelink Relay Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006721](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006721.zip) Considerations on the Study of NR Sidelink Relay Futurewei discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006735](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006735.zip) Initial considerations on NR sidelink relay ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006758](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006758.zip) Discussion and TP on Requirements and Scenarios for SL Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006856](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006856.zip) NR SL-based UE-to-UE relay for unicast SL Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006857](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006857.zip) Casting types in NR SL-based relays Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006866](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006866.zip) Scope, Requirements and Scenarios in NR Sidelink Relaying Fujitsu discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006968](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006968.zip) NR sidelink relay scenarios Samsung Electronics Co., Ltd discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007039](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007039.zip) Scope and Scenarios of SL relay vivo discussion Rel-17

[R2-2007043](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007043.zip) Scope and scenarios on NR sidelink relay Spreadtrum Communications discussion

[R2-2007099](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007099.zip) Discussion on NR Sidelink Relay Scenarios Apple, Convida Wireless discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007202](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007202.zip) High-level requirements Samsung Electronics GmbH discussion

[R2-2007290](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007290.zip) Service continuity scenarios for sidelink relay Ericsson discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007293](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007293.zip) Scope and initial steps for SL relay Ericsson discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007626](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007626.zip) Initial considerations for SL relaying Kyocera discussion Rel-17

[R2-2007775](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007775.zip) Discussion on UE-to-network coverage extension ETRI discussion Rel-17

[R2-2008017](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008017.zip) Scope and scenarios for NR sidelink relay LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008046](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008046.zip) General considerations on working for NR SL relay Huawei, HiSilicon, Apple, CMCC, China Telecom, China Unicom, MediaTek Inc., Sharp, Spreadtrum, Xiaomi, ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_SL\_relay

### 8.7.3 Relaying Mechanisms and their characteristics

Start to populate the TR. Put on the table mechanisms, their characteristics at least with respect to aspects A-F for L2 and L3 relay etc.

[R2-2006555](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006555.zip) UE-to-network relay architecture and procedures Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006557](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006557.zip) Discussion on NR sidelink relay selection and reselection Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006571.zip) RRC States for Relaying MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006604](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006604.zip) Protocol stack and CP procedure for SL relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006610](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006610.zip) User and Control Plane Procedures for L2 UE-to-NW Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006611](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006611.zip) L2/L3 UE-to-NW Relay Comparison CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006639](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006639.zip) L2 vs L3 - Relay (re-)Selection, Quality of Service (QoS) Fraunhofer HHI, Fraunhofer IIS discussion

[R2-2006641](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006641.zip) L2 vs L3 - Relay/Remote UE Authorization, Service Continuity Fraunhofer HHI, Fraunhofer IIS discussion

[R2-2006718](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006718.zip) Characteristics of L2 and L3 based Sidelink relaying Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006722](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006722.zip) Protocol Stack and Connection Setup Procedure of Sidelink Relay Futurewei discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006723](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006723.zip) Service Continuity with Sidelink Relay Futurewei discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006724](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006724.zip) QoS Control with Sidelink Relay Futurewei discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006736](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006736.zip) Discussion on relay initiation and relay UE (re-)selection ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006737](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006737.zip) Discussion on NR SL Relay Architecture ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006759](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006759.zip) Discussion and TP on UE to NW Relay Based on L2 Relay Architecture InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006760](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006760.zip) Discussion and TP on UE to UE Relay Based on L2 Relay Architecture InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006770](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006770.zip) Discussion on SL relay (re)selection and authorization OPPO discussion Rel-17

[R2-2006843](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006843.zip) View on L2/L3 SL relay ITL discussion

[R2-2006855](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006855.zip) Considerations for L3 UE-to-Network Relays Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006861](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006861.zip) NR Sidelink Relay (Re-)Selection Criterion and Procedure Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

[R2-2006867](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006867.zip) Mechanisms and Characteristics in NR Sidelink Relaying Fujitsu discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006962](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006962.zip) Mechanisms for supporting L2-based Sidelink Relays AT&T discussion

[R2-2007040](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007040.zip) Selection/Authorization and Security for L2 and L3 relay vivo discussion Rel-17

[R2-2007041](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007041.zip) Protocol stack and service continuity for L2 and L3 relay vivo discussion Rel-17

[R2-2007044](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007044.zip) Discusssion on architecture for NR sidelink relay Spreadtrum Communications discussion

[R2-2007100](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007100.zip) Discussion on User Plane mechanisms for Layer 2 Relay Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007101](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007101.zip) Discussion on Control Plane mechanisms for Layer 2 Relay Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007181](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007181.zip) Overview of Layer-2 and Layer-3 sidelink relay mechanisms Sony discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007203](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007203.zip) L3 vs L2 relaying Samsung Electronics GmbH discussion

[R2-2007292](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007292.zip) Considerations on L2 and L3 SL relay protocol design Ericsson discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007460](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007460.zip) Protocol stack design for L2 relay Lenovo, Motorola Mobility discussion Rel-17

[R2-2007461](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007461.zip) Relayed connection management Lenovo, Motorola Mobility discussion Rel-17

[R2-2007462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007462.zip) RRC state and CN registration of the remote UE Lenovo, Motorola Mobility discussion Rel-17

[R2-2007608](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007608.zip) Impact on user plane protocol stack and control plane procedure for Sidelink Relay Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007816](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007816.zip) Considerations on UE-to-NW Relay ETRI discussion FS\_NR\_SL\_relay

[R2-2008019](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008019.zip) Relaying mechanism for NR sidelink LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008043](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008043.zip) Consideration of Relay characteristics LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008047](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008047.zip) Study aspects of UE-to-Network relay and solutions for L2 relay Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008048](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008048.zip) Service continuity for L2 UE-to-Network relay Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008066](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008066.zip) Discussion on service continuity from Uu to relay Xiaomi communications discussion

### 8.7.4 Discovery model/procedure for sidelink relaying

[R2-2006556](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006556.zip) Discussion on relay discovery model / procedure Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006573](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006573.zip) Initiation of relaying operation MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006612](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006612.zip) Discovery Model/Procedure for NR Sidelink Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006738](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006738.zip) Discussion on relay discovery and link management ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006761](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006761.zip) Discovery Procedure for SL Relaying InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006771.zip) Discussion on SL relay discovery procedure OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006862](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006862.zip) NR Sidelink Relaying Discovery Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

[R2-2006868](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006868.zip) Discovery Model and Procedure in NR Sidelink Relaying Fujitsu discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006931](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006931.zip) On Sidelink Discovery for Relaying Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2006969](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006969.zip) Sidelink relay discovery model and procedure Samsung Electronics Co., Ltd discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007042](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007042.zip) Discussion of Relay UE discovery vivo discussion Rel-17

[R2-2007045](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007045.zip) Discussion on discovery procedure for sidelink relay Spreadtrum Communications discussion

[R2-2007098](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007098.zip) Discussion on NR Sidelink Relay Discovery Apple, Convida Wireless discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007291](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007291.zip) Discovery aspects for NR sidelink relay Ericsson discussion Rel-17 FS\_NR\_SL\_relay

[R2-2007476](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007476.zip) Considerations on discovery procedure for sidelink relay Lenovo, Motorola Mobility discussion Rel-17

[R2-2008045](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008045.zip) Consideration of discovery model/procedure for sidelink relay LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008049](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008049.zip) Common aspects for L2 and L3 UE-to-Network relay Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

## 8.8 RAN slicing SI

(FS\_NR\_slice; leading WG: RAN2; REL-17; WID: [RP-193254](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-193254.zip))

Time budget: 0.5 TU

Tdoc Limitation: 1 tdocs

Email max expectation: 1 threads

Expect to reply to outstanding LSes, could also have an initial discussion on the scope/requirements.

[R2-2006513](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006513.zip) Response to 5GC assisted cell selection for accessing network slice (R3-202558; contact: ZTE) RAN3 LS in Rel-17 FS\_NR\_slice To:SA2 Cc:RAN,RAN2,SA1

[R2-2006527](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006527.zip) Reply LS on GSMA NG.116 Attribute Area of service and impact on PLMN (S1-202294; contact: Nokia) SA1 LS in Rel-17 FS\_eNS\_Ph2 To:SA2, CT1, RAN2, RAN3, GSMA 5GJA, GSMA WAS

[R2-2006528](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006528.zip) LS on 5GC assisted cell selection for accessing network slice (S1-202264; contact: ZTE) SA1 LS in Rel-17 FS\_eNS\_Ph2 To:SA2 Cc:RAN2, RAN3 Withdrawn

[R2-2006529](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006529.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 Withdrawn

[R2-2006534](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006534.zip) LS on SA5 Rel-17 work on SLA (S5-203370; contact: CMCC) SA5 LS in Rel-17 EMA5SLA To:GSMA 5GJA, SA2, RAN3, IETF TEAS WG Cc:SA, SA1, SA6, RAN2, ETSI ISG ZSM

[R2-2006632](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006632.zip) Initial Discussion on the Scope and Requirements for Slicing CATT discussion Rel-17 FS\_NR\_slice

[R2-2006655](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006655.zip) LS on 5GC assisted cell selection for accessing network slice (S1-202264; contact: ZTE) SA1 LS in Rel-17 FS\_eNS\_Ph2 To:SA2 Cc:RAN2, RAN3

[R2-2006656](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006656.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

[R2-2006707](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006707.zip) Considerations on slice aware cell selection KDDI Corporation discussion

[R2-2006767](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006767.zip) Discussion on RAN slicing enhancement Qualcomm Incorporated discussion Rel-17 FS\_NR\_slice

[R2-2006854](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006854.zip) Considerations on slice-based cell reselection Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_slice

[R2-2006871](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006871.zip) Consideration on the scope and solutions for RAN slicing enhancement ZTE corporation, Sanechips discussion Rel-17 FS\_NR\_slice

[R2-2006883](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006883.zip) Considerations on scope of RAN slicing enhancements Lenovo, Motorola Mobility discussion Rel-17 FS\_NR\_slice

R2-2006887 5G RAN Slicing Framework During Cell Reselection MITRE Corporation discussion Late

[R2-2006951](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006951.zip) Slicing based cell (re)selection Intel Corporation discussion Rel-17 FS\_NR\_slice

[R2-2006970](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006970.zip) Considerations for RAN slicing Samsung Electronics Co., Ltd discussion Rel-17 FS\_NR\_slice

[R2-2007051](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007051.zip) Consideration on RAN slicing Spreadtrum Communications discussion

[R2-2007088](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007088.zip) Scoping of RAN Slicing Apple discussion Rel-17 FS\_NR\_slice

[R2-2007140](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007140.zip) Consideration on Rel-17 slicing OPPO discussion Rel-17 FS\_NR\_slice

[R2-2007250](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007250.zip) Assistant information to enable UE fast access network slice ITRI discussion FS\_NR\_slice

[R2-2007302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007302.zip) Consideration on RAN slicing vivo discussion Rel-17 FS\_NR\_slice

[R2-2007402](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007402.zip) Discussion on RAN Slicing LG Electronics UK discussion Rel-17

[R2-2007419](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007419.zip) Skeleton for TR 38.832 CMCC draft TR Rel-17 38.832 0.0.0 FS\_NR\_slice

[R2-2007420](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007420.zip) Work Plan for RAN Slicing CMCC, ZTE discussion Rel-17 FS\_NR\_slice

[R2-2007421](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007421.zip) Discussion on support of RAN slicing CMCC discussion Rel-17 FS\_NR\_slice

[R2-2007521](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007521.zip) Enhancement on RAN support of network slicing Beijing Xiaomi Software Tech discussion Rel-17

[R2-2007606](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007606.zip) Considerations on Frequency Band Selection for RAN Slicing SHARP Corporation discussion Rel-17

[R2-2007607](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007607.zip) Basic requirements for RAN slicing Google Inc. discussion Rel-17 FS\_NR\_slice

[R2-2007609](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007609.zip) Discussion on Network Slicing’s Impact on Cell Reselection Convida Wireless discussion FS\_NR\_slice

[R2-2007645](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007645.zip) Methods for serving slices on different frequencies Ericsson discussion Rel-17 FS\_NR\_slice

[R2-2007716](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007716.zip) Scenarios and requirements for RAN slicing SoftBank Corp. discussion Rel-17 FS\_NR\_slice

[R2-2007772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007772.zip) Considerations on enhancing the RAN support of network slicing Huawei, HiSilicon discussion Rel-17 FS\_NR\_slice

[R2-2008071](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008071.zip) Considerations scenarios on enhancing the RAN support of network slicing China Unicom discussion Rel-17 FS\_NR\_slice

## 8.9 UE Power Saving

(NR\_UE\_pow\_sav\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-200938](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200938.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus on initial discussions to understand the WID, and to get proposals on the table for idle/inactive mode.

### 8.9.1 Organizational, Scope and Requirements

[R2-2007189](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007189.zip) RAN2 Work Plan for UE Power Saving Enhancements WI MediaTek Inc. Work Plan Rel-17

DISCUSSION

- Ericsson think overall it is ok, but for 1 and 2, it says “study”, Ericsson think R2 cannot make any agreement until R1 has done their performance work. Nokia agrees.

- vivo think R2 can start the work, but think R1 input is needed for decisions, and tink decisions can be made both by R1 and R2.

- For BFD vivo has concerns on R2 plan, as R2 will need 3 meetings to decide on relaxation criteria. ZTE think R4 should start this ..

- LG agrees with Ericssons comment, but this doesn’t mean that R2 cannot start.

- QC support the work plan from the rapporteur. QC think R2 can start discussion and start evaluate.

- Samsung think that for R2 specifc solutions we can start.

- Nokia: on P5, R1 should design the signalling.

- Lenovo think R2 should start, but could wait with final decision

- Oppo are ok, and with paging enhancements R2 need to cooperate with R1.

- Apple also think R2 can start.

- Huawei think that R1 need to do some basic work, but once they have figure out power consumption for various steps etc, then any group can put together calcuations.

- CATT think R2 need to start, but we do need R1

- MTK confirms that R1 will do evaluation assumptions for all subfeatures of this WI, and MTK expect both WG can use this methodology.

* Noted

[R2-2007440](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007440.zip) Discussion on RAN2 scope for UE Power Saving Huawei, HiSilicon discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

DISCUSSION

P1 P2

- Xiaomi agrees with P1 P2 but not P3.

- Ericsson agrees with P1 P2 as well, think eg. False paging enhancement could be applicable to RedCap

- QC agree with P2 but would like to re-phrase P1, as redcap UEs should have also their own enhancements

- MTK agrees as well w P2 P1

- vivo agree but think we don’t need to disucss redcap specficis here.

- OPPO agrees but have doubt whether we should take into account redcap enhancements during the work.

- Apple agrees in principle.

- LG think we should not agree to anything wrt redcap right now. Chair think redcap will do eDRX

- Sony agrees but think we need to be careful so we don’t introduce too much complexity for redcap UEs.

* For PowSav solutions for Idle/Inactive (for smart phones) that can easily also be applied to redcap, R2 assume they may be applied. Details FFS and to be discuss case by case when the maturity is high (might in the end just be a question of UE caps).

[R2-2006730](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006730.zip) Views on Rel-17 NR UE power saving Xiaomi Communications discussion

DISCUSSION

- Ericsson think this is not in the scope of the power saving WID, think this can be discussed under TEI16. Think Dual DRX becomes stable during this meeting.

- Chair think if Dual DRX enh are needed, it should be added to a WID rather than TEI16 (we have already spread between PowSav and redcap.

- LG and vivo agrees this is not in the scoipe of the WID. LG further think R2 shall not do anything for connected mode in R17 – only R1 and R4.

* Dual DRX not in the scope of current WID.

[R2-2006789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006789.zip) Discussion on use cases of UE power saving enhancements OPPO discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2007326](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007326.zip) Discussion on RAN2 scope in Power saving LG Electronics. discussion NR\_UE\_pow\_sav\_enh-Core

[R2-2007436](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007436.zip) Initial consideration on RAN2’s work on UE power saving CMCC discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

### 8.9.2 Idle/inactive-mode UE power saving

General

[R2-2007190](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007190.zip) Paging Enhancements for UE Power Saving in NR MediaTek Inc. discussion Rel-17

Chair summary:

**Proposal:** WUS / Paging early indication, to reduce the total wake up time

**Proposal**: R2 can do evaluation once R1 has done the basic work.

**Proposal:** Sub-grouping of UEs

Q for Clarification

- QC wonder what the PEI is assumed to be. IS it a new signal of based on current PDCCH (new DCI etc). Think we cannot determine anything unless we know.

- MTK think this details need to be determined by R1. Chair think the PEI somehow need to be very robust (otherwise it seems it doesn’t work)

- CATT think the Pei is a WUS-like signal, and think we need to wait for R1. CATT think sub-grouping is indeed one direction, and think these three proposals summarizes what we can discussion. Convida agres with CATT. Samsung as well.

- Ericsson think the WID objective doesn’t say “WUS”, and think the TU budget doesn’t allow a WUS.

- Lenovo think the main benefit of WUS/PEI is mainly beneficial in low SINR, but are not sure this is needed even for low SINR. Lenovo wonder if a PEI would indicate skip of one paging occasion or several paging occasions. MTK are open for such detailed discussions later,

- Samsung wonder if the UE need to monitor the SSB in order to receive the WUS. MTK assumes that in any case the monitoring can be less with the PEI. MTK think this realtes to UE processing timeline, which will be assumed in the R1 evaluation methodology.

[R2-2006775](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006775.zip) Power Consumption by RRC IDLE\_INACTIVE UE Samsung Electronics Co., Ltd discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

Chair Modification:

**Proposal:** RAN2 should at lest discuss mechanisms to minimize PDSCH processing for paging message reception, i.e. false alarm.

Q for Clarification / DISCUSSION

- vivo think PDCCH PDSCH processing is R1. Is it sfficint if R2 tries to reduce the RX time. Samsung think that we can at least discuss PDSCH / false alarms. PDCCH might be more in R1 dmpain.

- OPPO wonder what kind of mechanisms would be applied to minimise PDCCH and PDSCH processing. Samsung think this paper doesn’t present any solution at all, but think we should at least reduce PDSCH reception.

- QC think that for beamforming there are more SSB, but a good UE implementation can decide what to receive and the impact of beamforming is not so significant.

- MTK think the overall wake-up is the main issue, for everything that need to be done.

[R2-2006790](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006790.zip) Paging enhancement for power saving OPPO discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

**Proposal:** RAN2 discuss the following candidate paging enhancements.

- Option 1: UE group-based paging with UE group indication in paging DCI

- Option 2: UE group-based paging with separate paging time/frequency PDCCH resource configuration for different UE groups

- Option 3: WUS-based paging

DISCUSSION

- Chair wonder if Option 3 is different to MTK .OPPO think we can use the R16 solution, but that is a R1 issues,

- MTK think all of these are possible candidates.

- vivo wonder what kind of enhancement is envisioned for Time resource separation, as legacy is also grouped time-wise. OPPO think the difference is that PDCCH is here grouped like this.

- QC support UE grouping but are against WUS based solution.

- ZTE think P3 is similar to MTK proposal

[R2-2006608](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006608.zip) Power saving enhancements for paging reception Qualcomm Inc discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

Proposal 1. Introduce multiple P-RNTIs for Rel-17 UEs.

Proposal 2. Discuss whether additional enhancements, such as beam-specific paging, are needed to further reduce unnecessary paging reception.

Proposal 3. Apply cross-slot scheduling (i.e. K0>0) for Rel-17 UE’s paging message.

DISCUSSION

- QC think P2 is for stationary UEs, and this could reduce the false paging rate.

- QC think Grouping + cross-slot scheduling are essential and think this is simple.

- ZTE think P2 is a network side enhancement. QC think that how UEs are assigned to differnet paging occasions a UE need to know.

- CMCC wonder if P3 is for Idle or connected. QC clarifies that this is for Idle and Inactive.

- P1 Lenovo wonder if the UE will have multiple RNTIs. QC think a UE will have only one. Lenovo wonder what happens if UEs has same paging occasions byt different RNTI.

- P3 Ericsson fully agrees. P1 ericsson support a DCI based approach.

Chair think we need to stop

- MTK would like email disc to next meeting. Vivo agrees, can identify potential solutions, Apple agrees. Huawei also ok with email discussion.

- CATT think WUS is not exclusing to grouping, can be used with/without grouping. Can also include WUS. Ericsson think WUS is too much R1’ish.

- LG would like to focus on the requirement rather than solutions.

- Oppo think we should limit to R2 scope. QC agrees.

- vivo agrees with CATT that WUS can be included as well.

- Chair: think we can postpone WUS details until at least R1 had a chance to discuss, i.e. to next meeting.

- MTK indicate: R1 is sending an LS on evaluation methodology.

* [Post111-e][] UE grouping ()

Scope: UE grouping, put solutions on the table, describe intentions / how they work (high level), and their potential to save power. Possibly take into account R1 evalaution methodology (if they have agreements on the evaluation parameters).

Intended outcome:

Deadline:

[R2-2006729](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006729.zip) Discussion on UE Power saving for RRC-IDLE and RRC-INACTIVE State Xiaomi Communications discussion

[R2-2007182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007182.zip) Discussion on reduction unnecessary UE paging receptions Sony discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2007115](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007115.zip) False Paging Mitigation Apple discussion Rel-17 NR\_UE\_pow\_sav-Core

[R2-2006690](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006690.zip) Paging enhancement in idle inactive mode for power saving vivo discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2006654](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006654.zip) UE power saving for paging procedures ETRI discussion

[R2-2006689](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006689.zip) Coordination between RAN1 and RAN2 for paging enhancement vivo discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2006720](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006720.zip) Paging enhancements to reduce UE power consumption Intel Corporation discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2006774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006774.zip) Paging Enhancements to Reduce Unnecessary Paging receptions Samsung Electronics Co., Ltd discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2006874](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006874.zip) Solutions to reduce unnecessary paging reception ZTE corporation, Sanechips discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2006990](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006990.zip) Considerations on paging enhancements for Power saving CATT discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2007116](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007116.zip) Wakeup and Paging Reception Apple discussion Rel-17 NR\_UE\_pow\_sav-Core

[R2-2007249](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007249.zip) Discussion on the UE grouping based solution for idle/inactive-mode UE power saving ITRI discussion NR\_UE\_pow\_sav\_enh-Core

[R2-2007260](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007260.zip) Paging enhancement to reduce unnecessary UE paging receptions Ericsson discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2007437](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007437.zip) Paging enhancement for idle inactive-mode UE power saving CMCC discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2007441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007441.zip) Discussion on paging enhancements Huawei, HiSilicon discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2007468](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007468.zip) Consideration on Idle/inactive-mode UE power saving Lenovo, Motorola Mobility discussion Rel-17

[R2-2007563](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007563.zip) IDLE / INACTIVE mode UE power saving Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2007990](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007990.zip) Paging enhancement for power saving LG Electronics Inc. discussion

TRS / CSI-RS

[R2-2007261](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007261.zip) Exposure of connected mode TRS occasions to Idle and Inactive mode Ericsson discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2007562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007562.zip) Potential TRS/CSI-RS occasion(s) Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

## 8.10 NR Non-Terrestrial Networks (NTN)

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: [RP-201256](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201256.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

[R2-2007565](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007565.zip) NR\_NTN\_solutions work plan THALES Work Plan Rel-17

### 8.10.1 Scope, requirements, scenarios, architecture

E.g. understand the WID, confirm the scenarios that shall be addressed, the role of and architecture for Location Service.

[R2-2006536](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006536.zip) LS on Requirements on positioning for UAS (S6-200269; contact: InterDigital) SA6 LS in Rel-17 FS\_UASAPP To:SA1 Cc:SA2, RAN2

[R2-2006630](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006630.zip) Further Clarifications on the NTN WID CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006699](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006699.zip) NR-NTN: Positioning Methods Fraunhofer IIS, Fraunhofer HHI discussion Rel-17 38.821

[R2-2006941](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006941.zip) NTN WI- Overall Observations and Proposals SAMSUNG discussion Rel-17 NR\_NTN\_solutions

[R2-2006971](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006971.zip) Discussion of SA2 LS on fixed cell identity Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006972](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006972.zip) [Draft] LS Reply on SA WG2 assumptions on architecture aspects for using Qualcomm Inc LS out Rel-17 NR\_NTN\_solutions-Core To:SA2 Cc:RAN3, CT1

[R2-2007143](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007143.zip) Discussion on task prioritization for NR NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007185](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007185.zip) Location Services in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007363](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007363.zip) On the scenarios and simulation assumptions for evaluating NTN mobility Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007431](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007431.zip) Discussion on NTN workplan CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007519](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007519.zip) Impact of pre-compensation on RACH capacity for NTN NEC Telecom MODUS Ltd. agenda Withdrawn

[R2-2007537](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007537.zip) NTN scope, scenarios, architecture, and requirements Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007572](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007572.zip) NR NTN Reference scenarios definition for Rel-17 normative phase THALES discussion Rel-17

[R2-2007712](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007712.zip) Impact of pre-compensation on RACH capacity for NTN NEC Telecom MODUS Ltd. discussion Rel-17

### 8.10.2 User Plane

In particular, initial focus on getting a common understanding of pre-compensation and offsets.

[R2-2007105](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007105.zip) On User Plane Latency reduction mechanisms in NTN Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007172](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007172.zip) Discussion on UP enhancement in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

#### 8.10.2.1 MAC aspects

[R2-2006631](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006631.zip) Discussion on MAC Enhancement and Impact for NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006638](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006638.zip) On Updating MAC Timers in NR-NTN MediaTek Inc. discussion

[R2-2006702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006702.zip) Enhancements for NTN on MAC Layer – Impact Analysis on TS Nomor Research GmbH, Thales discussion Rel-17

[R2-2006781](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006781.zip) Consideration on MAC enhancement for NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006799](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006799.zip) Discussion on DRX and BSR in NTN PANASONIC R&D Center Germany discussion

[R2-2006927](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006927.zip) MAC issues for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006928](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006928.zip) Timing advance for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006943](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006943.zip) MAC User Plane Enhancements for an NTN- Observations and Proposals SAMSUNG discussion Rel-17 NR\_NTN\_solutions

[R2-2006974](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006974.zip) UP aspects including Random Access procedure enhancements Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007056](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007056.zip) Introducing offsets in MAC Spreadtrum Communications discussion

[R2-2007104](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007104.zip) On Preamble Ambiguity in NTN Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007176](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007176.zip) Discussion on UL scheduling enhancement Beijing Xiaomi Electronics discussion

[R2-2007186](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007186.zip) MAC enhancements in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007397](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007397.zip) Consideration on TA Precompensation Beijing Xiaomi Mobile Software discussion Rel-17

[R2-2007428](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007428.zip) Discussion of HARQ feedback for NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007430](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007430.zip) Discussion on TA compensation CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007474](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007474.zip) Timing advance pre-compensation in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2007477](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007477.zip) Discussion on DRX for NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2007590](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007590.zip) Timing Advance, Random Access and DRX aspects in NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007615](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007615.zip) Summary of MAC open issues in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007616](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007616.zip) Pre-compensation and offset calculation in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007617](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007617.zip) RACH preamble ambiguity in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007714](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007714.zip) On scheduling, HARQ, DRX, RLC, and PDCP for NTN Ericsson discussion Rel-17 NR\_NTN\_solutions

[R2-2007715](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007715.zip) On Random Access in NTN Ericsson discussion Rel-17 NR\_NTN\_solutions

[R2-2007784](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007784.zip) Consideration on MAC enhancements for NTN ZTE Corporation, Sanechips discussion Rel-17

[R2-2007888](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007888.zip) Discussion on MAC aspects for NTN LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007995](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007995.zip) MAC enhancements on the initial access procedures for NTN ETRI discussion Rel-17

#### 8.10.2.2 Other aspects

[R2-2006640](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006640.zip) RLC and PDCP Enhancements in NR-NTN MediaTek Inc. discussion

[R2-2006703](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006703.zip) Enhancements for NTN on RLC Control Loops and Timers Nomor Research GmbH, Thales discussion Rel-17

[R2-2006705](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006705.zip) Enhancements for NTN on PDCP Control Loops and Timers Nomor Research GmbH, Thales discussion Rel-17

[R2-2006782](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006782.zip) Consideration on RLC and PDCP enhancements for NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007573](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007573.zip) On NTN Feeder link switch over THALES discussion

[R2-2007785](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007785.zip) Consideration on UP timers and RLC/PDCP SN for NTN ZTE Corporation, Sanechips discussion Rel-17

[R2-2007889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007889.zip) Discussion on RLC and PDCP aspects for NTN LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

### 8.10.3 Control Plane

Also identify things not covered in the TR that need to be covered, if any.

[R2-2007103](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007103.zip) On Timing Advance for NTN Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

#### 8.10.3.1 Idle/Inactive mode

Including cell selection/reselection & system information.

[R2-2006628](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006628.zip) Initial Discussion for Idle and Inactive Mode in NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006642](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006642.zip) On Idle Mode Procedures in NR-NTN MediaTek Inc. discussion

[R2-2006783](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006783.zip) Discussion on cell reselection for NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006821](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006821.zip) Issues of the Fixed Tracking Area in NTN PANASONIC R&D Center Germany discussion

[R2-2006872](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006872.zip) Consideration on system information and cell (re)selection in NTN ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006924](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006924.zip) HAPS-Satellite ephemeris broadcast Loon discussion Rel-17

[R2-2006925](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006925.zip) HAPS-Terrestrial PCI confusion mitigation Loon and Google discussion Rel-17

[R2-2006929](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006929.zip) Tracking area issue for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006945](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006945.zip) Control Plane Enhancements for Idle and Inactive Modes in an NTN- Overall Observations and Proposals SAMSUNG discussion Rel-17 NR\_NTN\_solutions

[R2-2006973](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006973.zip) IDLE mode procedure Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007048](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007048.zip) Consideration on Celll Reselection evaluation in NTN Spreadtrum Communications discussion

[R2-2007171](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007171.zip) Discussion on RRC\_IDLE mode issues in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007175](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007175.zip) Control Plane for Idle/Inactive mode UE Beijing Xiaomi Electronics discussion

[R2-2007184](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007184.zip) Idle mode enhancement in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007251](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007251.zip) Ephemeris data to be included in system information ITRI discussion NR\_NTN\_solutions-Core

[R2-2007362](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007362.zip) On Tracking Areas and IDLE mode handling for NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007429](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007429.zip) Discussion of cell selection and reselection for NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007473](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007473.zip) Ephemeris data provision in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2007558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007558.zip) Idle mode aspects for NTN Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007574](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007574.zip) Considerations on satellite ephemeris THALES discussion Rel-17

[R2-2007743](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007743.zip) Initial discussion on Idle mode procedures in NR NTN LG Electronics France discussion Rel-17

#### 8.10.3.2 Connected mode

Including mobility management.

[R2-2006547](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006547.zip) Discussion on feeder link hard switch in NTN LEO CENC discussion Late

[R2-2006552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006552.zip) Feeder link hard switch triggered HO CENC discussion Late

[R2-2006553](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006553.zip) Gateway data handling in NTN LEO CENC discussion Late

[R2-2006629](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006629.zip) Initial Discussion for Connected Mode in NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006643](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006643.zip) On Connected Mode Mobility Procedures in NR-NTN MediaTek Inc. discussion

[R2-2006784](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006784.zip) Discussion on mobility management for connected mode UE in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006822](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006822.zip) Overhead Reduction for the Handover Procedure in NTN PANASONIC R&D Center Germany discussion

[R2-2006873](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006873.zip) Consideration on mobility enhancement in NTN ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006930](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006930.zip) mobility enhacement for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006953](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006953.zip) Control Plane Enhancements for the Connected Mode in an NTN- Overall Observations and Proposals SAMSUNG discussion Rel-17 NR\_NTN\_solutions

[R2-2006975](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006975.zip) Connected mode mobility enhancements Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007144](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007144.zip) Discussion on enhancements for connected mode in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007174](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007174.zip) Control Plane for Connected mode UE Beijing Xiaomi Electronics discussion

[R2-2007183](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007183.zip) Mobility management in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007463](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007463.zip) Mobility management in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2007601](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007601.zip) Adjusting timers according to delay variations in NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007618](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007618.zip) Location-assisted connected mobility in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007744](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007744.zip) Initial discussion on connected mobility in NR NTN LG Electronics France discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007955](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007955.zip) Discussion on delay difference on measurements for NTN Asia Pacific Telecom co. Ltd discussion NR\_NTN\_solutions-Core

## 8.11 NR positioning enhancements SI

(FS\_NR\_pos\_enh; leading WG: RAN1; REL-17; WID: [RP-200928](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-200928.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.11.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

[R2-2006542](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006542.zip) Proposed table of contents - Section 9 (positioning integrity) - TR 38.857 Swift Navigation, Ericsson, Intel Corporation discussion Rel-17

[R2-2006669](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006669.zip) Summary on Rel-17 positioning enhancement discussion in RAN1 CATT, Intel Corporation, Ericsson discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006670.zip) Updated Work Plan for R17 SI NR Positioning Enhancements CATT, Intel Corporation, Ericsson discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006671](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006671.zip) Skeleton proposals for TR38.857 CATT draftCR Rel-17 38.857 0.0.1 FS\_NR\_pos\_enh

[R2-2006749](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006749.zip) Handling on Rel-16 leftover issue in Rel-17 Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006958](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006958.zip) skeleton for TR38857 Ericsson TS or TR cover Rel-17 38.857 0.0.1 FS\_NR\_pos\_enh

### 8.11.2 Enhancements for commercial use cases

Scope and general discussion related to the RAN2 objective on enhancements to support high accuracy, low latency, network efficiency, and device efficienty for commercial use cases. Detailed discussions may need to wait until RAN1 have progressed.

[R2-2006567](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006567.zip) Discussion on potential positioning enhancement vivo discussion FS\_NR\_pos\_enh

[R2-2006578](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006578.zip) Discussion on R17 positioning enhancement Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006672](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006672.zip) Discussion on ehancements for commercial use cases CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006750](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006750.zip) Consideration on the support of low latency requirement Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006956](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006956.zip) Enhancements for commercial use cases Ericsson discussion Rel-17

[R2-2007049](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007049.zip) Discussion on positioning enhancements for commercial use cases Spreadtrum Communications discussion

[R2-2007128](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007128.zip) On-demand PRS transmission and dynamic PRS resource allocation Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2007157](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007157.zip) Positioning for UE in RRC Idle and Inactive state OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2007159](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007159.zip) Discussion on on-demand DL-PRS OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2007170](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007170.zip) Discussion on PRS enhancements Beijing Xiaomi Electronics discussion

[R2-2007173](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007173.zip) Positioning enhancements for RRC IDLE and RRC INACTIVE state UE Beijing Xiaomi Electronics discussion

[R2-2007587](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007587.zip) End-to-end latency reduction for DL/UL positioning InterDigital, Inc. discussion Rel-17

[R2-2007629](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007629.zip) NR Positioning Enhancements Qualcomm Incorporated discussion

R2-2007694 On-demand PRS transmission and dynamic PRS resource allocation Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh Withdrawn

### 8.11.3 Integrity and reliability of assistance data and position information

[R2-2006541](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006541.zip) TP for Study on Positioning Integrity and Reliability Swift Navigation, Deutsche Telekom, u-blox, Ericsson, Mitsubishi Electric, Intel Corporation, CATT, UIC discussion Rel-17

[R2-2007187](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007187.zip) Discussion on Integrity of positioning information Sony discussion Rel-17 FS\_NR\_pos\_enh

#### 8.11.3.1 KPIs and use cases

[R2-2006564](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006564.zip) Identify positioning integrity use case and KPIs vivo discussion FS\_NR\_pos\_enh

[R2-2006579](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006579.zip) Discussion on positioning integrity KPIs and relevant use cases Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006673](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006673.zip) Discussion on integrity KPIs and use cases CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006754](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006754.zip) Consideration on positioning integrity Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006954](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006954.zip) Positioning integrity KPIs and support for RAT dependent use cases Ericsson discussion Rel-17

[R2-2007050](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007050.zip) Discussion on positioning integrity KPIs and use cases Spreadtrum Communications discussion

[R2-2007073](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007073.zip) Discussion on integrity and reliability for positioning based on an IIoT use case Sumitomo Elec. Industries, Ltd discussion Rel-17

[R2-2007102](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007102.zip) Discussion on Positioning Integrity Apple discussion Rel-17 FS\_NR\_pos\_enh

[R2-2007158](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007158.zip) Discussion on the KPIs of integrity OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2007646](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007646.zip) Discussion on use cases and KPIs for position integrity ESA discussion Rel-17 FS\_NR\_pos\_enh

[R2-2007936](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007936.zip) Discussion of the positioning integrity definition ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

[R2-2007937](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007937.zip) Discussion of the integrity events and integrity failure ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

#### 8.11.3.2 Error sources, threat models, occurrence rates and failure modes

[R2-2006565](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006565.zip) Identify Error sources for positioning integrity vivo discussion FS\_NR\_pos\_enh

[R2-2006580](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006580.zip) Discussion on positioning integrity validation and reporting Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006674](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006674.zip) Discussion on error sources, threat models, occurrence rates and failure modes CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006955](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006955.zip) Factors impacting positioning integrity Ericsson discussion Rel-17

[R2-2007647](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007647.zip) Discussion on GNSS position integrity error sources ESA discussion Rel-17 FS\_NR\_pos\_enh

[R2-2007938](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007938.zip) Discussion of the positioning error sources, threat models and failure modes ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

#### 8.11.3.3 Methodologies for network-assisted and UE-assisted integrity

[R2-2006566](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006566.zip) Discussion on positioning integrity methodologies vivo discussion FS\_NR\_pos\_enh

[R2-2006581](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006581.zip) Discussion for network-assisted and UE-assisted integrity Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006675](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006675.zip) Discussion on methodologies for network-assisted and UE-assisted integrity CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2006957](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006957.zip) LPP signalling for integrity support of RAT dependent positioning Ericsson discussion Rel-17

[R2-2007160](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007160.zip) Discussion on methodologies for UE-based and UE-assisted integrity OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2007238](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007238.zip) Reporting movement model Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

[R2-2007246](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007246.zip) Reporting the situational quality of RAT and RAT-independent technologies Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2007588](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007588.zip) Methodologies for network-assisted and UE-assisted integrity InterDigital, Inc. discussion Rel-17

[R2-2007656](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007656.zip) Discussion on methodologies for position integrity ESA discussion Rel-17

[R2-2007939](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007939.zip) Discussion of the methodologies for network-assisted and UE-assisted integrity ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

## 8.12 Reduced Capability SI

(FS\_NR\_redcap; leading WG: RAN1; REL-17; WID: [RP-201386](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201386.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.12.1 Organizational and scope

Get a common understanding of the SID, eg. what is RAN2 scope in the RAN1 centric objectives, what is required to be in the TR in order to start a WI.

[R2-2006732](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006732.zip) General views on Higher-layer impacts for Redcap devices Xiaomi Communications discussion

[R2-2006753](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006753.zip) RAN1-2 work scope discussion on RedCap capability Intel Corporation discussion Rel-17 FS\_NR\_redcap

[R2-2006910](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006910.zip) Scope of RedCap SI Ericsson discussion FS\_NR\_redcap

[R2-2006978](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006978.zip) Expected RAN2 scope of RedCap NEC discussion Rel-17 FS\_NR\_redcap

[R2-2007366](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007366.zip) TR38.875 skeleton updates for Study on support of reduced capability NR devices Ericsson discussion

### 8.12.2 Framework for reduced capabilities

#### 8.12.2.1 Principles for how to define and constrain reduced capabilities

[R2-2006605](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006605.zip) Defining and constraining UEs with reduced capabilities Qualcomm Inc discussion Rel-17 FS\_NR\_redcap

[R2-2006660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006660.zip) Capability and initial access of RedCap UEs Samsung discussion Rel-17 FS\_NR\_redcap

[R2-2006691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006691.zip) UE type and capability for RedCap UEs vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2006733](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006733.zip) Discussion on UE Capaiblity Issues for reduced capability NR devices Xiaomi Communications discussion

[R2-2006751](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006751.zip) Reduced capability signalling framework Intel Corporation discussion Rel-17 FS\_NR\_redcap

[R2-2006785](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006785.zip) Discussion on definition of RedCap Ues OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2006903](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006903.zip) Define and constrain reduced capability ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2006911](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006911.zip) Framework and Principles for Reduced Capability Ericsson discussion FS\_NR\_redcap

[R2-2006979](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006979.zip) Constraint on usage of RedCap functions NEC discussion Rel-17 FS\_NR\_redcap

[R2-2007011](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007011.zip) On definition and constraint of reduced capabilities CATT discussion Rel-17 FS\_NR\_redcap

[R2-2007110](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007110.zip) RedCap UE characterization and access restriction Apple discussion Rel-17 FS\_NR\_redcap

[R2-2007344](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007344.zip) Capability definition of REDCAP UE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

[R2-2007400](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007400.zip) Discussion on how to define reduced capability devices LG Electronics UK discussion Rel-17

[R2-2007478](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007478.zip) The principle to constrain reduced capability NR devices Lenovo, Motorola Mobility discussion Rel-17

[R2-2007490](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007490.zip) Principles for reduced capabilities Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2007492](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007492.zip) On the definition of a RedCap device type MediaTek Inc. discussion Rel-17 FS\_NR\_redcap

#### 8.12.2.2 Identification and access restrictions

[R2-2006606](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006606.zip) Identification and access restriction for RedCap UEs Qualcomm Inc discussion Rel-17 FS\_NR\_redcap

[R2-2006661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006661.zip) Coexistence between legacy UEs and RedCap UEs Samsung discussion Rel-17 FS\_NR\_redcap

[R2-2006692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006692.zip) Identification and access restrictions for RedCap UEs vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2006734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006734.zip) Discussion on Identification and UE access restrictions for Redcap devices Xiaomi Communications discussion

[R2-2006752](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006752.zip) Identification and Access restriction for RedCap devices Intel Corporation discussion Rel-17 FS\_NR\_redcap

[R2-2006786](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006786.zip) Discussion on RedCap UE’s identification and access control OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2006904](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006904.zip) Identification and access control for Redcap UE ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2006912](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006912.zip) Identification and access restriction for devices with reduced capabilities Ericsson discussion FS\_NR\_redcap

[R2-2007012](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007012.zip) Identification and access restrictions for reduced capability UE CATT discussion Rel-17 FS\_NR\_redcap

[R2-2007345](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007345.zip) Identification and access restriction of REDCAP UE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

[R2-2007399](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007399.zip) Access restriction for reduced capability devices LG Electronics UK discussion Rel-17

[R2-2007480](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007480.zip) Discussion on the identification of Redcap Lenovo, Motorola Mobility discussion Rel-17

[R2-2007491](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007491.zip) Cell access for REDCAP UE with reduced bandwidth Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2007493](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007493.zip) On UE identification and access restrictions MediaTek Inc. discussion Rel-17 FS\_NR\_redcap

[R2-2007560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007560.zip) Cell access restrictions for REDCAP UE Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

### 8.12.3 UE power saving and battery lifetime enhancement

UE power saving and battery lifetime enhancement for reduced capability UEs in applicable use cases (e.g. delay tolerant case).

[R2-2006607](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006607.zip) Power saving enhancements for RedCap UEs Qualcomm Inc discussion Rel-17 FS\_NR\_redcap

[R2-2006662](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006662.zip) RRM relaxation for stationary devices Samsung discussion Rel-17 FS\_NR\_redcap

[R2-2006693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006693.zip) RRM relaxation for power saving vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2006694](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006694.zip) DRX enhancement for RedCap UEs vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2006731](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006731.zip) Discussion on UE Power saving for Redcap Devices Xiaomi Communications discussion

[R2-2006748](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006748.zip) Use cases target to extend paging DRX cycle and relax measurements for stationary devices Intel Corporation discussion Rel-17 FS\_NR\_redcap

[R2-2006787](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006787.zip) Consideration on extended DRX for RedCap OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2006788](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006788.zip) Discussion on RRM relaxation OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2006902](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006902.zip) Consideration on RRM relaxation for Redcap UE ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2006905](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006905.zip) Introduction of eDRX for Redcap UE ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2006913](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006913.zip) Reducing power consumption in RedCap devices Ericsson discussion FS\_NR\_redcap

[R2-2007013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007013.zip) eDRX for NR RRC Inactive and Idle States CATT discussion Rel-17 FS\_NR\_redcap

[R2-2007111](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007111.zip) Impact of power-saving aspects on RedCap UEs Apple discussion Rel-17 FS\_NR\_redcap

[R2-2007346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007346.zip) Discussion on eDRX for RRC\_INACTIVE and RRC\_IDLE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

[R2-2007347](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007347.zip) RRM measurement relaxation for REDCAP UE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

[R2-2007393](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007393.zip) Introducing Extended DRX for RRC Inactive and/or Idle Samsung discussion FS\_NR\_redcap

[R2-2007401](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007401.zip) Extended DRX for reduced capability devices in RRC\_IDLE and RRC\_INACTIVE LG Electronics UK discussion Rel-17

[R2-2007470](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007470.zip) eDRX for Idel/inactive-mode UE with reduced capability Lenovo, Motorola Mobility discussion Rel-17

[R2-2007471](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007471.zip) RRM relaxation for stationary UE with reduced capability Lenovo, Motorola Mobility discussion Rel-17

[R2-2007494](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007494.zip) eDRX for reduced capability UEs MediaTek Inc. discussion Rel-17 FS\_NR\_redcap

[R2-2007561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007561.zip) Power saving and battery lifetime enhancement for REDCAP UE Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2007653](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007653.zip) eDRX for Reduced Capability NR Devices Convida Wireless discussion Rel-17 FS\_NR\_redcap

[R2-2007654](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007654.zip) Discussion on eDRX Configuration Convida Wireless discussion Rel-17 FS\_NR\_redcap

[R2-2007745](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007745.zip) Considerations on RRM for reduced capability UEs LG Electronics France discussion Rel-17 FS\_NR\_redcap

## 8.13 SON/MDT

(NR\_ENDC\_SON\_MDT\_enh-Core; leading WG: RAN3; REL-17; WID: [RP-201281](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201281.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus on scope clarification, identify the detailed use cases, and the associated measurment collections. Can also discuss other organizational aspects.

[R2-2007233](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007233.zip) R17 MDT scope for MR-DC and early measurments Samsung Telecommunications discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

### 8.13.1 Organizational

[R2-2007996](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007996.zip) Work plan for enhancement of data collection for SON\_MDT in NR and EN-DC WI CMCC, Ericsson discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

### 8.13.2 SON, RAN2 scope and requirements

[R2-2006651](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006651.zip) Clarification for SON Scope and Use Cases CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2006678](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006678.zip) Discussion on rel-17 Radio Link Failure Report NTT DOCOMO INC. discussion Rel-17

[R2-2006746](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006746.zip) Mobility support in SON/MDT for Rel17 Intel Corporation discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007071](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007071.zip) Open Issues in SON QUALCOMM Incorporated discussion Rel-17

[R2-2007155](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007155.zip) Enhancements and scope of R17 SON OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007196](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007196.zip) SON for Rel-16 mobility enhancement NEC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007301](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007301.zip) Discussion on SON enhancements vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007392](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007392.zip) Optimization for Rel-16 Features Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007435](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007435.zip) SON Consideration for R16 Mobility Enhancement CMCC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007464](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007464.zip) MRO for Inter-RAT handover Lenovo, Motorola Mobility discussion Rel-17

[R2-2007465](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007465.zip) MRO for CHO and DAPS Handover Lenovo, Motorola Mobility discussion Rel-17

[R2-2007516](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007516.zip) Rel-17 SON enhancements scope Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007661.zip) SON Scope and Requirements for Rel.17 Ericsson discussion

R2-2007662 SON Summary Ericsson discussion Late

[R2-2007769](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007769.zip) Discussion for RAN2 SON scope and requirements Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007782](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007782.zip) Consideration on SON enhancements ZTE Corporation, Sanechips discussion Rel-17

### 8.13.3 MDT Scope and requirements

[R2-2006652](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006652.zip) Clarification for MDT Scope and Use Cases CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2006747 Scope of MDT for Rel17 Intel Corporation discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core Withdrawn

R2-2007070 Open Issues in MDT QUALCOMM Europe Inc. - Spain discussion Rel-17 Late

[R2-2007072](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007072.zip) Open Issues in MDT Qualcomm Incorporated discussion Rel-17

[R2-2007156](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007156.zip) Enhancements and scope of R17 MDT OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007300](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007300.zip) Discussion on MDT enhancements vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007434](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007434.zip) MDT Enhancement for 2-step RA CMCC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007515](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007515.zip) Rel-17 MDT enhancements scope Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2007667](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007667.zip) MDT scope and requirements Ericsson discussion

[R2-2007770](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007770.zip) Discussion for MDT Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2007771 Summary on 8.13.3 MDT Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core Late

[R2-2007783](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007783.zip) Consideration on MDT enhancements ZTE Corporation, Sanechips discussion Rel-17

## 8.14 NR QoE SI

(FS\_NR\_QoE; leading WG: RAN3; REL-17; WID: [RP-193256](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-193256.zip))

Time budget: 0 TU

Tdoc Limitation: 1 tdocs

Email max expectation: 0 threads

Not Treated AT meeting. Can open incoming LSes if any.

[R2-2007081](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007081.zip) NR QoE management Samsung Electronics discussion Rel-17 38.331 FS\_NR\_QoE

[R2-2007600](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007600.zip) NR QoE Measurement Triggering, Configuration, Collection and Reporting Ericsson discussion FS\_NR\_QoE

[R2-2007768](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007768.zip) Discussion for NR QoE Huawei, HiSilicon discussion Rel-17 FS\_NR\_QoE

[R2-2007940](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007940.zip) Discussion on QoE in NR ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_QoE

## 8.15 NR Sidelink enhancements

(NR\_SL\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-201385](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201385.zip))

Time budget: 0 TU

Tdoc Limitation: 0 tdocs (no contributions expected).

Email max expectation: 0 threads

Not Treated AT meeting. Can open incoming LSes if any.

## 8.16 NR R17 Other

Time budget: 0.5 TU

Tdoc Limitation: tdocs

Email max expectation: threads

This item carries the otherwise unbudgeted time to treat LSes for not yet started items.

[R2-2006514](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006514.zip) Response LS on the “LS out on Location of UEs and associated key issues” (R3-202824; contact: Thales) RAN3 LS in Rel-17 FS\_5GSAT\_ARCH To:SA2, RAN2, SA3-LI

[R2-2006530](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006530.zip) LS on SA WG2 assumptions from conclusion of study on architecture aspects for using satellite access in 5G (S2-2004688; contact: Qualcomm) SA2 LS in Rel-17 FS\_5GSAT\_ARCH To:RAN2, RAN3, CT1

[R2-2006532](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006532.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 Cc:SA1

[R2-2006537](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006537.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

# 9 Rel-17 EUTRA Work Items

## 9.1 NB-IoT and eMTC enhancements

(NB\_IOTenh4\_LTE\_eMTC6-Core; leading WG: RAN1; REL-17; WID: [RP-201306](file:///D:\Documents\3GPP\tsg_ran\TSG_RAN\TSGR_88e\Docs\RP-201306.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus on two objectives only, initial discussions to understand the context, scope, potential solution proposals.

### 9.1.1 Organizational

[R2-2007696](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007696.zip) Work plan of Rel-17 enhancements for NB-IoT and LTE-MTC Ericsson, Huawei Work Plan NB\_IOTenh4\_LTE\_eMTC6-Core

### 9.1.2 NB-IoT neighbor cell measurements and corresponding measurement triggering before RLF

[R2-2006833](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006833.zip) Reducing time taken for reestablishment procedures in NB-IOT Ericsson discussion Rel-17

[R2-2006834](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006834.zip) Cell measurement in connected mode for NB-IoT ZTE Corporation, Sanechips discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2007342](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007342.zip) Discussion on RLF enhancements Huawei, HiSilicon discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2007472](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007472.zip) Neighbor cell measurements triggering before RLF Lenovo, Motorola Mobility discussion Rel-17

[R2-2007569](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007569.zip) Connected mode neighbor cell measurement in NB-IoT Qualcomm Incorporated discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2007619](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007619.zip) Clarification on Agenda Item – 9.1.2 THALES discussion Rel-17

[R2-2007951](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007951.zip) Measurement before radio link failure Shanghai Chen Si Electronics discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

### 9.1.3 NB-IoT carrier selection based on the coverage level, and associated carrier specific configuration

[R2-2006832](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006832.zip) NB-IoT carrier selection and configuration based on coverage level Ericsson discussion Rel-17

[R2-2006835](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006835.zip) Enhancements on multi carrier configuration and selection ZTE Corporation, Sanechips discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2007343](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007343.zip) Use cases and scenarios of carrier specific configuration Huawei, HiSilicon discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2007354](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007354.zip) Analysis on carrier selection options Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2007570](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007570.zip) Support for NB-IoT carrier selection based on the coverage level Qualcomm Incorporated discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2007957](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007957.zip) Carrier selection enhancement Shanghai Chen Si Electronics discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

## 9.2 EUTRA R17 Other

Time budget: 0 TU

Tdoc Limitation: X tdocs

Email max expectation: X threads