3GPP TSG-RAN WG2 Meeting #113 electronic R2-2xxxxxx  
Online, Jan 25 – Feb 5, 2021

Source: RAN2 Chairman (Mediatek)  
Title: Agenda

# AT-Meeting Email Discussion List, Main Session

**Deadline:** Email discussions with Deadline ***Schedule A***:

A first round with **Deadline for comments Thursday Jan 28 1200 UTC** to settle scope what is agreeable etc

A Final round with **Final deadline Thursday Feb 4 1200 UTC.** to settle details / agree CRs etc. Additional check points etc if needed are defined by the Rapporteur. In case some parts of an email discussion need more time, doesn’t converge, need on-line treatment etc Rapporteur please contact chair.

* [AT113-e][000] Organizational Main (Chairman)

Scope: Organizational and general issues for the whole meeting and Johan’s topics.

* [AT113-e][001][NR15] Stage-2 (Nokia)

Scope: Treat [R2-2100270](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100270.zip), [R2-2100271](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100271.zip), [R2-2101345](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101345.zip), [R2-2100091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100091.zip), [R2-2100092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100092.zip), [R2-2101478](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101478.zip), [R2-2101653](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101653.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][002][NR15] User Plane I (Samsung)

Scope: MAC Treat [R2-2100206](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100206.zip), [R2-2100207](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100207.zip), [R2-2101510](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101510.zip), [R2-2101337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101337.zip), [R2-2101769](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101769.zip), [R2-2101351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101351.zip), [R2-2101593](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101593.zip), [R2-2101522](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101522.zip), [R2-2101523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101523.zip), [R2-2101524](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101524.zip), [R2-2101525](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101525.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][003][NR15] User Plane II (Huawei)

Scope: MAC RLC PDCP Treat [R2-2101344](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101344.zip), [R2-2101349](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101349.zip), [R2-2101773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101773.zip), [R2-2101774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101774.zip), [R2-2100317](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100317.zip), [R2-2100315](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100315.zip), [R2-2100316](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100316.zip) [R2-2101441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101441.zip), [R2-2101442](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101442.zip), [R2-2101775](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101775.zip), [R2-2101446](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101446.zip), [R2-2101447](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101447.zip), [R2-2101770](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101770.zip), [R2-2101771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101771.zip), [R2-2101772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101772.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A (separate schedule for MAC reset docs)

* [AT113-e][004][NR15] Connection Control I (ZTE)

Scope: Treat [R2-2100551](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100551.zip), [R2-2100552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100552.zip), [R2-2100553](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100553.zip), [R2-2100554](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100554.zip), [R2-2100555](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100555.zip), [R2-2100556](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100556.zip), [R2-2100765](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100765.zip), [R2-2100771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100771.zip), [R2-2101732](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101732.zip), [R2-2100557](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100557.zip), [R2-2100558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100558.zip), [R2-2100559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100559.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][005][NR15] Connection Control II (Apple)

Scope: Treat [R2-2100057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100057.zip), [R2-2101462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101462.zip), [R2-2101459](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101459.zip), [R2-2101166](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101166.zip), [R2-2100945](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100945.zip), [R2-2101019](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101019.zip), [R2-2101267](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101267.zip), [R2-2101268](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101268.zip), [R2-2100841](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100841.zip), [R2-2100756](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100756.zip), [R2-2100757](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100757.zip),

Clarification on SRB1 configuration for RRC resume Ericsson, Intel, ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][006][NR15] Measurements Misc and System Info (Ericsson)

Scope: Treat [R2-2100063](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100063.zip), [R2-2101834](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101834.zip), [R2-2101422](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101422.zip), [R2-2101423](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101423.zip), [R2-2100751](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100751.zip), [R2-2101285](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101285.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][007][NR15] Inter Node RRC (Nokia)

Scope: Treat [R2-2100586](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100586.zip), [R2-2100772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100772.zip), [R2-2100773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100773.zip), [R2-2101934](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101934.zip), [R2-2101347](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101347.zip), [R2-2101705](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101705.zip), [R2-2101935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101935.zip), [R2-2101936](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101936.zip), [R2-2101944](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101944.zip), [R2-2101021](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101021.zip), [R2-2101022](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101022.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][008][NR15] LTE changes (Nokia)

Scope: Treat [R2-2100182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100182.zip), [R2-2100946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100946.zip), [R2-2101863](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101863.zip), [R2-2101864](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101864.zip), [R2-2101882](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101882.zip), [R2-2101881](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101881.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][009][NR15] UE Capabilites EN-DC BCS (Nokia)

Wait: Do not start email discussion until LS from R4 is available,

Scope: Treat Incoming LS from R4. [R2-2100065](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100065.zip), [R2-2100949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100949.zip), [R2-2101664](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101664.zip), [R2-2100388](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100388.zip), [R2-2100481](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100481.zip), [R2-2101562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101562.zip), [R2-2101563](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101563.zip), [R2-2101564](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101564.zip), [R2-2101565](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101565.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][010][NR15] UE Capabilites II (ZTE)

Scope: Treat [R2-2101559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101559.zip), [R2-2101560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101560.zip), [R2-2100064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100064.zip), [R2-2101561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101561.zip), [R2-2101913](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101913.zip), [R2-2101914](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101914.zip), [R2-2100961](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100961.zip), [R2-2100962](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100962.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][011][NR15] UE Capabilites III (Samsung)

Scope: Treat [R2-2100016](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100016.zip), [R2-2100439](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100439.zip), [R2-2100440](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100440.zip), [R2-2101911](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101911.zip), [R2-2101912](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101912.zip), [R2-2101432](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101432.zip), [R2-2101430](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101430.zip), [R2-2101431](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101431.zip), [R2-2101660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101660.zip), [R2-2101661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101661.zip), [R2-2101354](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101354.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][012][NR15] UE Capabilites IV (Huawei)

Scope: Treat [R2-2100056](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100056.zip), [R2-2101662](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101662.zip), [R2-2101663](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101663.zip), [R2-2101843](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101843.zip), [R2-2101844](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101844.zip), [R2-2101845](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101845.zip), [R2-2101435](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101435.zip), [R2-2101731](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101731.zip), [R2-2101558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101558.zip), [R2-2100970](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100970.zip), [R2-2100971](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100971.zip), [R2-2100972](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100972.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][013][NR15] Idle Inactive (Mediatek)

Scope: Treat [R2-2100181](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100181.zip), [R2-2101249](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101249.zip), [R2-2101250](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101250.zip), [R2-2101355](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101355.zip), [R2-2101840](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101840.zip), [R2-2101896](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101896.zip), [R2-2101897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101897.zip), [R2-2100247](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100247.zip), [R2-2100248](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100248.zip), [R2-2100306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100306.zip), [R2-2100307](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100307.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][014][NR16] RRC I (Ericsson)

Scope: Treat [R2-2101286](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101286.zip), [R2-2101023](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101023.zip), [R2-2101024](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101024.zip), [R2-2101687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101687.zip), [R2-2101324](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101324.zip), [R2-2101193](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101193.zip), , [R2-2102256](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102256.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][015][NR16 V2X MOB DCCA] RRC II (OPPO)

Scope: Treat [R2-2100973](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100973.zip), [R2-2100101](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100101.zip), [R2-2100149](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100149.zip), [R2-2101702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101702.zip), [R2-2100102](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100102.zip), [R2-2100103](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100103.zip), [R2-2100104](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100104.zip), [R2-2100974](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100974.zip), [R2-2100975](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100975.zip), [R2-2101535](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101535.zip), [R2-2101169](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101169.zip), [R2-2101182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101182.zip), [R2-2101546](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101546.zip)

[R2-2100680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100680.zip), [R2-2100068](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100068.zip)1, R2-210526,

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][016][POS V2X NR16] RRC III (Ericsson)

Scope: Treat [R2-2101733](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101733.zip), [R2-2101825](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101825.zip), [R2-2100302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100302.zip), [R2-2101571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101571.zip), [R2-2100887](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100887.zip), [R2-2100888](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100888.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][017][NR16] R16 Feature List TR (Intel)

Scope: Make agreeable CR for TR 38.822, Based on [R2-2100378](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100378.zip), [R2-2100621](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100621.zip), Can also discuss in this discussion any misalignments with the TSs.

Intended outcome: Agreed CR.

Deadline: EOM

* [AT113-e][018][NR16] UE Cap Main (Intel)

Scope: Treat [R2-2100018](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100018.zip), [R2-2100053](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100053.zip), [R2-2101058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101058.zip), [R2-2100060](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100060.zip), [R2-2100954](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100954.zip), [R2-2101433](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101433.zip), [R2-2100013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100013.zip), [R2-2100452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100452.zip), [R2-2100453](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100453.zip), [R2-2100454](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100454.zip), [R2-2101020](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101020.zip), [R2-2100008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100008.zip), [R2-2100148](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100148.zip)6, [R2-2100455](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100455.zip), [R2-2100385](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100385.zip), [R2-2100386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100386.zip), [R2-2101873](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101873.zip), [R2-2101874](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101874.zip), [R2-2101821](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101821.zip) + Incoming LSes at meeting, if any.

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

* [AT113-e][019][NR16 IIOT] UL Skipping (vivo)

Scope: Treat [R2-2100028](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100028.zip), [R2-2100138](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100138.zip), [R2-2100524](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100524.zip), [R2-2100218](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100218.zip), [R2-2101793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101793.zip), [R2-2101794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101794.zip), [R2-2100340](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100340.zip), [R2-2101776](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101776.zip), [R2-2101352](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101352.zip), [R2-2101377](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101377.zip), [R2-2101378](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101378.zip), [R2-2101456](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101456.zip), [R2-2100341](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100341.zip), [R2-2100855](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100855.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Reports and Agreed CRs if any is agreeable.

Deadline: Schedule A

* [AT113-e][020][NR16] MAC PH type (QC)

Scope: Treat [R2-2100734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100734.zip), [R2-2100314](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100314.zip), [R2-2100733](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100733.zip), [R2-2101777](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101777.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Reports and Agreed CRs if any is agreeable.

Deadline: Schedule A

* [AT113-e][021][IAB] RRC and Stage 2 (ZTE)

Scope: Treat [R2-2100465](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100465.zip), [R2-2101278](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101278.zip), [R2-2101684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101684.zip), [R2-2100469](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100469.zip), [R2-2100470](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100470.zip), [R2-2101279](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101279.zip), [R2-2101280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101280.zip), [R2-2101685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101685.zip), [R2-2101686](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101686.zip), [R2-2101904](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101904.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A

* [AT113-e][022][IAB] User Plane (vivo)

Scope: Treat [R2-2100224](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100224.zip), [R2-2100466](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100466.zip), [R2-2100467](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100467.zip), [R2-2101281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101281.zip), [R2-2101452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101452.zip), [R2-2101683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101683.zip), [R2-2100468](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100468.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Reports and Agreed CRs if any is agreeable.

Deadline: Schedule A

* [AT113-e][023][IIOT] User Plane I (Samsung)

Scope: Treat [R2-2100026](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100026.zip), [R2-2100219](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100219.zip), [R2-2100889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100889.zip), [R2-2100890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100890.zip), [R2-2101004](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101004.zip), [R2-2101005](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101005.zip), [R2-2101511](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101511.zip), [R2-2100714](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100714.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A

* [AT113-e][024][IIOT] User Plane II (Asus)

Scope: Treat [R2-2100713](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100713.zip), [R2-2100854](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100854.zip), [R2-2101529](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101529.zip), [R2-2101530](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101530.zip), [R2-2101744](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101744.zip), [R2-2101745](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101745.zip), [R2-2101746](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101746.zip), [R2-2101670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101670.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A

* [AT113-e][025][IIOT] RRC (Nokia)

Scope: Treat [R2-2100712](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100712.zip), [R2-2101340](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101340.zip), [R2-2101941](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101941.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Agreed CRs if any is agreeable.

Deadline: Schedule A

* [AT113-e][026][R4 Other] DC location Reporting (Apple)

Scope: TBD after on-line

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A

CLOSED

* [AT113-e][027][R4 Other] Miscellaneous (China Telecom)

Scope: [R2-2100025](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100025.zip), [R2-2100029](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100029.zip)3, [R2-2101353](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101353.zip), [R2-2101528](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101528.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A

* [AT113-e][028][TEI16] Miscellaneous I (Apple)

Scope: [R2-2101434](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101434.zip), [R2-2101346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101346.zip), [R2-2101170](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101170.zip), [R2-2101656](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101656.zip), [R2-2100872](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100872.zip), [R2-2101356](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101356.zip), [R2-2101357](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101357.zip), [R2-2101358](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101358.zip), [R2-2101359](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101359.zip), [R2-2100979](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100979.zip), [R2-2101289](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101289.zip), [R2-2101290](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101290.zip), [R2-2101291](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101291.zip), [R2-2101292](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101292.zip), [R2-2101657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101657.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A (can come back Thu Feb 4 is needed)

* [AT113-e][029][TEI16] Miscellaneous II (Ericsson)

Scope: [R2-2100560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100560.zip), [R2-2100561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100561.zip), [R2-2100562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100562.zip), [R2-2100484](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100484.zip), [R2-2101288](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101288.zip), [R2-2101243](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101243.zip), [R2-2101734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101734.zip)

Phase 1: determine agreeable parts, Phase 2: for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any agreeable.

Deadline: Schedule A

* [AT113-e][030][eIAB] Reply LS DAPS-like solution (Ericsson)

Scope: Make Reply LS following the on-line agreements.

Intended outcome: Approved LS

Deadline: Interactive discussion

* [AT113-e][031][eNPN] LS out (Nokia)

Scope: LS out to SA2, cc: TBD. Take into account LS question agreements below for *SNPN with subscription or credentials by a separate entity*, and can consider additional filtering. Take into account LS question proposals for *UE onboarding and provisioning for NPN* and determine what shall be included, if any. Take into account LS question proposals *IMS voice and emergency services for SNPN* and determine what shall be included, if any. Intended Outcome: Approved LS out Deadline: Interactive discussion, stop when agreement is reached or at EOM. Companies are requested to comment ASAP.

* [AT113-e][032][eNPN] UE onboarding and provisioning for NPN (Ericsson)

Scope: Take into account documents submitted to this section, 1st pass: identify what is required to be supported by AS and determine the RAN2 impact, if possible. Identify common views / potential initial agreements, Identify points that need further discussion. Can also gather comments on the need to ask questions to other group.

Intended outcome: Report with agreeable proposals and discussion points (not too many, preferably < 10) for treatment on-line

Deadline: 1st Deadline for Comments: Friday Jan 29 1000 UTC. Other deadline if needed by rapporteur. Report Ready for treatment on-line Feb 3.

CLOSED

* [AT113-e][033][eNPN] IMS voice and emergency services for SNPN (Huawei)

Scope: Take into account documents submitted to this section, 1st pass: identify what is required to be supported by AS and determine the RAN2 impact, if possible. Identify common views / potential initial agreements, Identify points that need further discussion. Can also gather comments on the need to ask questions to other group.

Intended outcome: Report with agreeable proposals and discussion points (not too many, preferably < 6) for treatment on-line

Deadline: 1st Deadline for Comments: Friday Jan 29 1000 UTC. Other deadline if needed by rapporteur. Report Ready for treatment on-line Feb 3.

CLOSED

* [AT113-e][034][NR17 Other] NR17 other (Huawei)

Scope: Treat [R2-2100054](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100054.zip), [R2-2100896](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100896.zip), [R2-2100897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100897.zip), [R2-2100950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100950.zip), [R2-2100951](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100951.zip), T2-2100952, [R2-2100953](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100953.zip), [R2-2100225](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100225.zip)9, [R2-2100145](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100145.zip)7, [R2-2100145](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100145.zip)8, [R2-2100046](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100046.zip), [R2-2101415](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101415.zip), [R2-2100055](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100055.zip), [R2-2100161](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100161.zip)2, [R2-2100161](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100161.zip)3

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs and LS out if applicable.

Intended outcome: Report, Agreed CRs, approved LS if any is agreeable.

Deadline: Prepare such that results can be available Feb 3 (for potential CB Feb 4).

* [AT113-e][035][IoT NTN] General (Eutelsat)

TP reflecting agreements up to last meeting, based on [R2-2102418](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102418.zip),

Intended outcome: Endorsed TP

Deadline: Interactive Discussion, Stop when agreement is reached or at EOM. Companies are requested to comment Asap.

* [AT113-e][036][IoT NTN] Mobility and Tracking Area (Mediatek)

Starting from [R2-2102419](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102419.zip).

Agree P2-P6 or modified variants thereof.

Intended outcome: Report

Deadline: Interactive Discussion, Stop when agreement is reached or at EOM. Companies are requested to comment Asap.

* [AT113-e][037][MBS] MBS General (Huawei)

      Scope: Based on [R2-2102253](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102253.zip), work on running CR to make it acceptable (based on previous meeting agreements). Address the issues needed to reply to SA2 LS, progress as much as possible, Come Back ON-line if needed. (note that the issue whether Multicast can be supported in Idle or inactive will be treated online).

      Intended outcome: Endorsable Running CR, Draft LS out, Report

      Deadline: In time for next online session for the items that need on-line attention, EOM for the rest.

* [AT113-e][038][MBS] UP architecture decisions (Chairman)

Scope: Gather comments to facilitate a CB to address two decision: A) on L2 ARQ for PTM, B) for PTM PTP switch, which layer to be the anchor.

Intended outcome: Report with collection of comments

Deadline: Friday Jan 29 1200 UTC

* [AT113-e][039][eQoE] RAN2 conclusions on QoE (China Unicom)

Scope: TP capturing R2 agreements

Wanted Outcome: Endorsed TP

Deadline: Interactive discussion, stop when agreement is reached or at EOM. Companies are requested to comment ASAP.

* [AT113-e][040][eQoE] Reply LS to SA5 (QC)

Scope: converge on LS.

Intended outcome: Approved LS out

Deadline: Interactive discussion, stop when reaching agreement or at EOM.

* [AT113-e][041][ePowSav] TRS/CSI-RS for IDLE INACTIVE (Xiaomi)

Scope: Take the documents in 8.9.3 into account, except availability signalling which is postponed. Collect comments, determine agreeable points, open points and their main options and related justifications.

Intended outcome: Report, Agreements (if possible).

Deadline: Thursday Feb 4 UTC 1100: Deadline for comments on agreements. Deadline for other aspects: EOM

General

This meeting is electronic and 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.

Specific methodology

This meeting is conducted by email, ftp and by on-line web conferences by GoToWebinar + Torhu, in three parallel sessions.

R16 raising the bar

For Rel-16 there should now be smaller and smaller efforts spent on text enhancements. Only essential corrections should be agreed. To still allow some text enhancements, pre-coordination is requested (see below).

Tdoc Limitation

Tdoc Limitation limits the number of allowed input tdocs for a company as indicated for an Agenda Item for all types of documents. A multi-sourced document is counted towards the limit of the first company. Rapporteur input (email discussion, WI rapporteur, TS rapporteur, assigned CR editor, assigned summary rapporteur etc) and at-meeting decided tdocs, revisions etc, do not count towards a tdoc limitation. For an LS to RAN2 with action, the contact company is allowed one document that doesn’t count towards the tdoc limitation.

Note that there is now a tdoc limitation for NR R16 (See agenda item 6). Each document is counted, so it is recommended to not have both a CR and a discussion tdoc (e.g. skip the discussion doc). It is also possible to attach draft CRs as appendix to a discussion doc.

Rel-16 text enhancements and miscellaneous corrections CRs

Rapporteurs are asked to, if needed, be ready to prepare (at the meeting) a miscellaneous corrections CR for their WI/TS. Companies shall coordinate with the Rapporteur for small changes, clarifications, text enhancements etc. The Rapporteur is asked to develop an opinion on the need for the particular change. Text enhancements (no behavioural change) with no support from the Rapporteur might not be treated.

In this context the Rapporteur for a TS for a WI = Editor of the Rel-16 WI Cat B CRs (or other person assigned by the session chair when applicable).

Rel-16 NR UE capabilities

Corrections to R16 NR UE capabilities are in a common session under Agenda item 6.1.2. There may be exceptions, e.g. for WIs that may require substantial discussions. Tdocs will be reallocated between Agenda Items if needed (as usual).

# 1 Opening of the meeting

**This e-Meeting**

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

- RAN2 113 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 Guidelines under agenda item 2.4 below, and by email distributed guidelines.

## 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.

* [000] No comments received in reply to announcements of 1, 1.1, 1.3

# 2 General

## 2.1 Approval of the agenda

[R2-2100000](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100000.zip) Agenda for RAN2#113-e Chairman agenda

* [000] approved

## 2.2 Approval of the report of the previous meeting

[R2-2100001](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100001.zip) RAN2#112-e Meeting Report MCC report Late

* [000] approved

[R2-2102242](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102242.zip) RAN2#111-e Meeting Report MCC report

* [000] approved

## 2.3 Reporting from other meetings

## 2.4 Others

[R2-2100351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100351.zip) 3GPP TSG RAN WG2 Handbook (01/2021) ETSI MCC discussion

* [000] noted

[R2-2100352](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100352.zip) RAN2#113-e Meeting Guidelines ETSI MCC discussion

* [000] noted

# 3 Incoming liaisons

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

No Action

[R2-2100004](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100004.zip) Withdrawal of IEEE Std 802.1D-2004 (liaison-8021D-withdrawal-1120-v01; contact: Ericsson) IEEE 802.1 LS in To:RAN2, RAN3

* [000] Noted

[R2-2100074](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100074.zip) LS on Physical layer assisted lightweight AKA (PL-AKA) protocol for the Internet of things (S3-203492; contact: Ericsson) SA3 LS in To:ITU-T SG17 Cc:GSMA, ETSI CYBER, ETSI SAGE, ISO/IEC JTC 1/SC 27/WG 3, RAN1, RAN2

* [000] Noted

# 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

[R2-2101822](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101822.zip) Correction on NPRACH resources in SIB2-NB and SIB23-NB MediaTek Inc., ZTE CR Rel-15 36.331 15.12.0 4592 - F NB\_IOTenh2-Core

[R2-2101824](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101824.zip) Correction on NPRACH resources in SIB2-NB and SIB23-NB MediaTek Inc., ZTE CR Rel-16 36.331 16.3.0 4593 - A 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.

[R2-2101041](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101041.zip) Correction to the applicability of CRS muting configuration Huawei, HiSilicon CR Rel-15 36.331 15.12.0 4565 - F LTE\_eMTC4-Core

[R2-2101042](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101042.zip) Correction to the applicability of CRS muting configuration Huawei, HiSilicon CR Rel-16 36.331 16.3.0 4566 - A 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.

## 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.

[R2-2100391](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100391.zip) corrections on the descriptions of RequestLocationInformation message in TS36.305 CATT CR Rel-14 36.305 14.3.0 0094 - F UTRA\_LTE\_iPos\_enh2-Core

[R2-2100392](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100392.zip) corrections on the descriptions of RequestLocationInformation message in TS36.305 CATT CR Rel-15 36.305 15.5.0 0095 - A UTRA\_LTE\_iPos\_enh2-Core

[R2-2100393](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100393.zip) corrections on the descriptions of RequestLocationInformation message in TS36.305 CATT CR Rel-16 36.305 16.2.0 0096 - A UTRA\_LTE\_iPos\_enh2-Core

[R2-2100394](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100394.zip) corrections on the indication for the not provided assistance data and location information in TS36.305 CATT CR Rel-14 36.305 14.3.0 0097 - F UTRA\_LTE\_iPos\_enh2-Core

[R2-2100395](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100395.zip) corrections on the indication for the not provided assistance data and location information in TS36.305 CATT CR Rel-15 36.305 15.5.0 0098 - A UTRA\_LTE\_iPos\_enh2-Core

[R2-2100396](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100396.zip) corrections on the indication for the not provided assistance data and location information in TS36.305 CATT CR Rel-16 36.305 16.2.0 0099 - A UTRA\_LTE\_iPos\_enh2-Core

[R2-2101818](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101818.zip) Correction to the basic production for positioning AD broadcast-R16 Huawei, HiSilicon CR Rel-16 37.355 16.3.0 0289 - A LCS\_LTE\_acc\_enh-Core

[R2-2101819](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101819.zip) Correction to the basic production for positioning AD broadcast-R15 Huawei, HiSilicon CR Rel-15 37.355 15.1.0 0290 - F LCS\_LTE\_acc\_enh-Core

## 4.5 Other LTE corrections Rel-15 and earlier

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

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

Including discussion on whether MAC reset also flushes recommended bit rate query (postponed in RAN2#112, see R2-2010153, R2-2010154, R2-2010155)

Including discussion on inter-node signalling field conditions for resume and re-establishement (postponed in RAN2#112, see R2-2009257 and R2-2009258)

[R2-2100436](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100436.zip) Minor changes collected by Rapporteur for Rel-15 Samsung CR Rel-15 36.331 15.12.0 4548 - F NR\_newRAT-Core

[R2-2100437](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100437.zip) Minor changes collected by Rapporteur for Rel-16 Samsung CR Rel-16 36.331 16.3.0 4549 - F NR\_newRAT-Core

(moved from 7.5, shadow CR)

[R2-2100778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100778.zip) Discussion on ciphering key discrepancy issue for legacy S1-handover NTT DOCOMO INC. discussion

[R2-2100996](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100996.zip) Miscellaneous corrections on Aerial functionality Samsung CR Rel-15 36.331 15.12.0 4559 - F LTE\_Aerial-Core

[R2-2100997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100997.zip) Miscellaneous corrections on Aerial functionality Samsung CR Rel-16 36.331 16.3.0 4560 - A LTE\_Aerial-Core

[R2-2101081](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101081.zip) Correction to RRC resume and re-establishment Google Inc. CR Rel-15 36.331 15.12.0 4457 1 F LTE\_5GCN\_connect-Core R2-2009257

[R2-2101084](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101084.zip) Correction to RRC resume and re-establishment Google Inc. CR Rel-16 36.331 16.3.0 4458 1 A LTE\_5GCN\_connect-Core R2-2009258

[R2-2101410](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101410.zip) On the lack of PLMN identity check in case of anyCellSelected state related logging Ericsson CR Rel-15 36.331 15.12.0 4574 - F TEI15

[R2-2101411](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101411.zip) Releasing WLAN-BT configuration upon returning from Inactive Ericsson CR Rel-15 36.331 15.12.0 4575 - F LTE\_MDT\_BT\_WLAN-Core

[R2-2101412](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101412.zip) On the lack of PLMN identity check in case of anyCellSelected state related logging Ericsson CR Rel-16 36.331 16.3.0 4576 - A TEI15

[R2-2101413](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101413.zip) Releasing WLAN-BT configuration upon returning from Inactive Ericsson CR Rel-16 36.331 16.3.0 4577 - A LTE\_MDT\_BT\_WLAN-Core

[R2-2101443](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101443.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-14 36.321 14.13.0 1519 - F LTE\_VoLTE\_ViLTE\_enh

[R2-2101444](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101444.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-15 36.321 15.11.0 1520 - F LTE\_VoLTE\_ViLTE\_enh

[R2-2101445](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101445.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-16 36.321 16.3.0 1521 - F LTE\_VoLTE\_ViLTE\_enh

[R2-2101658](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101658.zip) CR on overheatingAssistanceConfig release Huawei, HiSilicon CR Rel-15 36.331 15.12.0 4585 - F LTE\_5GCN\_connect-Core

[R2-2101659](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101659.zip) CR on overheatingAssistanceConfig release Huawei, HiSilicon CR Rel-16 36.331 16.3.0 4586 - F LTE\_5GCN\_connect-Core

# 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)

Only essential corrections. Includes all R15 NR drops and architectures.

## 5.1 Organisational

Incoming LSs, etc.

## 5.2 Stage 2 corrections

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

* [AT113-e][001][NR15] Stage-2 (Nokia)

Scope: Treat [R2-2100270](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100270.zip), [R2-2100271](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100271.zip), [R2-2101345](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101345.zip), [R2-2100091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100091.zip), [R2-2100092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100092.zip), [R2-2101478](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101478.zip), [R2-2101653](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101653.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102268](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102268.zip) Offline 001 on Stage 2 Corrections Nokia (Rapporteur)

* [001] Noted, proposals are agreed and reflected below

### 5.2.1 TS 3x.300

Agreed in-principle

[R2-2100270](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100270.zip) UE Capabilities Description Nokia (Rapporteur), Ericsson, Nokia Shanghai Bell, Qualcomm Incorporated, Sanechips, ZTE CR Rel-15 38.300 15.11.0 0301 2 F NR\_newRAT-Core R2-2011034

* [001] agreed

[R2-2100271](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100271.zip) UE Capabilities Description Nokia (Rapporteur), Ericsson, Nokia Shanghai Bell, Qualcomm Incorporated, Sanechips, ZTE CR Rel-16 38.300 16.4.0 0302 2 A NR\_newRAT-Core R2-2011035

* [001] agreed

Other

[R2-2101345](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101345.zip) Clarification of data forwarding upon intra-system HO using full configuration Samsung, Intel Corporation, China Telecom, LGU+, Google Inc., CATT, Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility CR Rel-16 38.300 16.4.0 0339 - F NR\_newRAT-Core R3-207066

* [001] clarify the issue on the cover sheet
* [001] provide Rel-15 CR as well
* [001] updated CRs provided in [R2-2102370](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102370.zip) (Rel-15) and [R2-2102339](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102339.zip) (Rel-16)

[R2-2102370](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102370.zip) Clarification of data forwarding upon intra-system HO using full configuration Samsung, Intel Corporation, China Telecom, LGU+, Google Inc., CATT, Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility CR Rel-15 38.300 15.11.0 0345 - F NR\_newRAT-Core

* [001] agreed

[R2-2102339](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102339.zip) Clarification of data forwarding upon intra-system HO using full configuration Samsung, Intel Corporation, China Telecom, LGU+, Google Inc., CATT, Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility CR Rel-16 38.300 16.4.0 0339 1 A NR\_newRAT-Core [R2-2101345](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101345.zip)

* [001] agreed

### 5.2.2 TS 37.340

PDCP Change indication

[R2-2100091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100091.zip) Correction on the PDCP Change Indication for 37.340 CATT CR Rel-15 37.340 15.11.0 0243 - F NR\_newRAT-Core

* [001] agreed

[R2-2100092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100092.zip) Correction on the PDCP Change Indication for 37.340 CATT CR Rel-16 37.340 16.4.0 0244 - A NR\_newRAT-Core

* [001] agreed

Power Sharing

[R2-2101478](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101478.zip) Corrections on UL power sharing Huawei, HiSilicon, ZTE Corpoation (rapporteur) CR Rel-15 37.340 15.11.0 0247 - F NR\_newRAT-Core

* [001] updated in [R2-2102297](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102297.zip)

[R2-2102297](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102297.zip) Corrections on UL power sharing Huawei, HiSilicon, ZTE Corpoation (rapporteur) CR Rel-15 37.340 15.11.0 0247 1 F NR\_newRAT-Core [R2-2101478](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101478.zip)

* [001] agreed

Data forwarding

[R2-2101653](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101653.zip) Correction on user plane handling for full configuration in SN Change Google Inc., Samsung, Nokia, Nokia Shanghai Bell, CATT, Lenovo, Motorola Mobility, Intel Corporation CR Rel-16 37.340 16.4.0 0249 - F NR\_newRAT-Core

* [001] clarify the issue on the cover sheet
* [001] provide Rel-15 CR as well
* [001] updated CRs provided in [R2-2102371](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102371.zip) (Rel-15) and [R2-2102366](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102366.zip) (Rel-16)

[R2-2102371](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102371.zip) Correction on user plane handling for full configuration in SN Change Google Inc., Samsung, Nokia, Nokia Shanghai Bell, CATT, Lenovo, Motorola Mobility, Intel Corporation CR Rel-15 37.340 15.11.0 0252 - F NR\_newRAT-Core

* [001] agreed

[R2-2102366](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102366.zip) Correction on user plane handling for full configuration in SN Change Google Inc., Samsung, Nokia, Nokia Shanghai Bell, CATT, Lenovo, Motorola Mobility, Intel Corporation CR Rel-16 37.340 16.4.0 0249 1 A NR\_newRAT-Core [R2-2101653](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101653.zip)

* [001] agreed

## 5.3 Stage 3 user plane corrections

### 5.3.1 MAC

* [AT113-e][002][NR15] User Plane I (Samsung)

Scope: MAC Treat [R2-2100206](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100206.zip), [R2-2100207](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100207.zip), [R2-2101510](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101510.zip), [R2-2101337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101337.zip), [R2-2101769](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101769.zip), [R2-2101351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101351.zip), [R2-2101593](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101593.zip), [R2-2101522](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101522.zip), [R2-2101523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101523.zip), [R2-2101524](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101524.zip), [R2-2101525](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101525.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102320](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102320.zip)  Report of [AT113-e][002][NR15] User Plane I (Samsung)           Samsung   discussion        Rel-15  NR\_newRAT-Core

* [002] Noted

Misc Corrections

[R2-2100206](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100206.zip)  Miscellaneous corrections Samsung, Qualcomm           CR       Rel-15  38.321   15.11.0 1003     -           F   NR\_newRAT-Core

* [002] Revised in [R2-2102321](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102321.zip)

[R2-2102321](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102321.zip)  Miscellaneous corrections Samsung, Qualcomm           CR       Rel-15  38.321   15.11.0 1003     1          F   NR\_newRAT-Core

* [002] Agreed

[R2-2100207](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100207.zip)  Miscellaneous corrections Samsung, Qualcomm           CR       Rel-16  38.321   16.3.0   1004     -           A   NR\_newRAT-Core

* [002] Revised in [R2-2102322](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102322.zip)

[R2-2102322](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102322.zip)  Miscellaneous corrections Samsung, Qualcomm           CR       Rel-16  38.321   16.3.0   1004     1          A   NR\_newRAT-Core

* [002] Agreed

CG and DRX Inactivity Timer

[R2-2101510](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101510.zip) Activation of CG and DRX Inactivity Timer   LG Electronics Inc.        discussion   Rel-15  NR\_newRAT-Core

[R2-2101337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101337.zip)  Activation of CG and DRX Inactivity Timer   Ericsson           discussion        Rel-15   NR\_newRAT-Core        R2-2010621

[R2-2101769](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101769.zip)  Further discussions on DRX InactivityTimer operations Huawei, HiSilicon  discussion        Rel-15   NR\_newRAT-Core

[R2-2101351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101351.zip)  Activation of CG/SPS and DRX Inactivity Timer      Apple   discussion        Rel-15   NR\_newRAT-Core, TEI15

* [002] Four documents above are all noted.
* [002] Add a NOTE to MAC in both Rel-15 and Rel-16 saying that 'A PDCCH indicating activation of SPS or configured grant type 2 is considered to indicate a new transmission.

[R2-2102337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102337.zip) Activation of CG and DRX inactivity timer   Samsung          CR       Rel-15  38.321   15.11.0 1059     -           F   NR\_newRAT-Core

* [002] Agreed

[R2-2102323](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102323.zip)  Activation of CG and DRX inactivity timer   Samsung          CR       Rel-16  38.321   16.3.0   1058     -           A   NR\_newRAT-Core

* [002] Agreed

CG Type 1 upon TA expired

[R2-2101593](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101593.zip)  Discussion on the handling of CG type 1 resources when TA timer is expired   ZTE Corporation, Sanechips   discussion        Rel-15  NR\_newRAT-Core

* [002] Noted
* [002] RAN2 confirms the following behaviours, as specified in the current specification:

- The RRC configuration for type 1 configured grant will not be released in case the *timeAlignmentTimer* expires (i.e. delta configuration is allowed. e.g. for *pusch-RepTypeIndicator-r16*)

- After the expiration of *timeAlignmentTimer*, the type 1 configured grant will not become available unless the type 1 configured grant is reconfigured again by RRC (i.e. will not become available automatically after the start of *timeAlignmentTimer*.

- After the expiration of *timeAlignmentTimer*, the type 1 configured grant will become unavailable unless a new RRC configuration for type 1 configured grant is received (i.e. although the RRC configuration for type 1 configured grant is not released, RRC configuration for type 1 configured grant should be included in RRC signaling to enable the type 1 configured grant)

* [002] No specification changes are needed for the issue

[R2-2101522](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101522.zip)  CR on CG type 1 resources handling when timeAlignmentTimer is expired-Opt 1   ZTE Corporation, Sanechips      CR   Rel-15  38.321  15.11.0 1038     -   F          NR\_newRAT-Core

* [002] Not pursued

[R2-2101523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101523.zip)  CR on CG type 1 resources handling when timeAlignmentTimer is expired-Opt 2   ZTE Corporation, Sanechips      CR   Rel-15  38.321  15.11.0 1039     -   F          NR\_newRAT-Core

* [002] Not pursued

[R2-2101524](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101524.zip)  CR on CG type 1 resources handling when timeAlignmentTimer is expired-Opt 1   ZTE Corporation, Sanechips      CR   Rel-16  38.321  16.3.0   1040     -   F          NR\_newRAT-Core

* [002] Not pursued

[R2-2101525](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101525.zip)  CR on CG type 1 resources handling when timeAlignmentTimer is expired-Opt 2   ZTE Corporation, Sanechips      CR   Rel-16  38.321  16.3.0   1041     -   F          NR\_newRAT-Core

* [002] Not pursued
* [AT113-e][003][NR15] User Plane II (Huawei)

Scope: MAC RLC PDCP Treat [R2-2101344](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101344.zip), [R2-2101349](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101349.zip), [R2-2101773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101773.zip), [R2-2101774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101774.zip), [R2-2100317](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100317.zip), [R2-2100315](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100315.zip), [R2-2100316](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100316.zip) [R2-2101441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101441.zip), [R2-2101442](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101442.zip), [R2-2101775](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101775.zip), [R2-2101446](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101446.zip), [R2-2101447](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101447.zip), [R2-2101770](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101770.zip), [R2-2101771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101771.zip), [R2-2101772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101772.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A (separate schedule for MAC reset docs)

[R2-2102395](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102395.zip) Report of [AT113-e][003][NR15] User Plane II (Huawei) Huawei, HiSilicon

* [003] Noted, taken into acct, agreements reflected below

MAC Reset

[R2-2101770](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101770.zip) Discussion on UE behaviors for MAC reset Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

* [003] RAN2 agree that Recommended bit rate query, configured uplink grant confirmation should be cancelled at MAC reset for both NR Rel-15 and Rel-16, and configured sidelink grant confirmation and desired guard symbol query should be cancelled at MAC reset for NR Rel-16.

[R2-2101771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101771.zip) Correction to TS 38.321 on MAC Reset Huawei, HiSilicon CR Rel-15 38.321 15.11.0 1050 - F NR\_newRAT-Core

* [003] Merged with [R2-2101447](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101447.zip)

[R2-2101447](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101447.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-15 38.321 15.11.0 1033 - F NR\_newRAT-Core

[R2-2102437](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102437.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-15 38.321 15.11.0 1033 1 F NR\_newRAT-Core

* [003] agreed

[R2-2101446](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101446.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-16 38.321 16.3.0 1032 - F NR\_newRAT-Core

* [003] Merged with [R2-2101772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101772.zip)

[R2-2101772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101772.zip) Correction to TS 38.321 on MAC Reset Huawei, HiSilicon CR Rel-16 38.321 16.3.0 1051 - F NR\_newRAT-Core

[R2-2102396](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102396.zip) Correction to TS 38.321 on MAC Reset Huawei, HiSilicon CR Rel-16 38.321 16.3.0 1051 1 F NR\_newRAT-Core

* [003] agreed

LCP restrictions

[R2-2101344](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101344.zip) Clarification to LCP restrictions Ericsson, Mediatek CR Rel-15 38.306 15.12.0 0504 - F NR\_newRAT-Core

* [003] RAN2 agree to clarify the LCP restrictions for both Rel-15 and Rel-16.

[R2-2102290](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102290.zip) Clarification to LCP restrictions Ericsson, Mediatek CR Rel-15 38.306 15.12.0 0504 1 F NR\_newRAT-Core

* [003] agreed

[R2-2101349](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101349.zip) Clarification to LCP restrictions Ericsson, Mediatek CR Rel-16 38.306 16.3.0 0505 - A NR\_newRAT-Core

[R2-2102291](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102291.zip) Clarification to LCP restrictions Ericsson, Mediatek CR Rel-16 38.306 16.3.0 0505 1 A NR\_newRAT-Core

* [003] agreed

CSI reporting

[R2-2101773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101773.zip) Correction on CSI reporting when CSI masking is setup Huawei, HiSilicon CR Rel-15 38.321 15.11.0 1052 - F NR\_newRAT-Core

* [003] RAN2 agree to capture a NOTE to clarify CSI reporting when CSI masking is setup for both Rel-15 and Rel-16.

[R2-2102283](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102283.zip) Correction on CSI reporting when CSI masking is setup Huawei, HiSilicon CR Rel-15 38.321 15.11.0 1052 1 F NR\_newRAT-Core

* [003] agreed

[R2-2101774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101774.zip) Correction on CSI reporting when CSI masking is setup Huawei, HiSilicon CR Rel-16 38.321 16.3.0 1053 - F NR\_newRAT-Core

[R2-2101774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101774.zip) Correction on CSI reporting when CSI masking is setup Huawei, HiSilicon CR Rel-16 38.321 16.3.0 1053 1 F NR\_newRAT-Core

* [003] agreed

MAC inactivity timers at empty scheduling

Moved from 6.1.3

[R2-2100317](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100317.zip) Configuration and capability signaling for not starting MAC timers Qualcomm Incorporated CR Rel-16 38.331 16.3.0 2320 - F TEI16

* [003] There is not sufficient support for not starting MAC timers with empty scheduling.

[R2-2100315](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100315.zip) Correction to MAC timer procedures Qualcomm Incorporated CR Rel-16 38.321 16.3.0 1013 - F TEI16

* [003] Not Pursued

[R2-2100316](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100316.zip) UE capability for not starting MAC timers Qualcomm Incorporated CR Rel-16 38.306 16.3.0 0484 - F TEI16

* [003] Not Pursued

### 5.3.2 RLC

Text Enhancement

[R2-2101441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101441.zip) Clarification to RLC PDU Polling at Handover Ericsson CR Rel-16 38.322 16.2.0 0038 - F NR\_newRAT-Core

[R2-2101442](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101442.zip) Clarification to RLC PDU Polling at Handover Ericsson CR Rel-15 38.322 15.5.0 0039 - F NR\_newRAT-Core

* [003] There is not sufficient support to clarify RLC PDU polling at HO in RLC spec.
* [003] CRs in [R2-2101441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101441.zip) and [R2-2101442](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101442.zip) are not pursued.

### 5.3.3 PDCP

[R2-2101775](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101775.zip) Discussion about RoHC handling during PDCP re-establishment Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

DISCUSSION

- [003] Rap: Two solutions on the table:

> Solution 1 (LTE-like approach): The transmitter should wait PDCP status report from the receiver before retransitting RLC unacked PDCP SDUs.

> Solution 2 (NR DAPS-like approach): The transmitter should maintain IR state/uncompressed packet during PDCP re-establishment.

- [003] Intel: Solution 2 basically disables rohcContinue

- [003] Rap: Implementation can choose either of the solutions, no consensus to specify anything.

* [003] Halftime: RAN2 agree that RoHC decompression failure may happen during PDCP re-establishment.
* [003] RAN2 confirms that RoHC decompression failure during PDCP re-establishment can be avoided by implementation. No specification changes are needed for NR Rel-15 and 16.
* [003] Noted

### 5.3.4 SDAP

## 5.4 Stage 3 control plane corrections

### 5.4.1 NR RRC

#### 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. Including outcome of [Post112-e][061][NR15] Configuration of First Active BWP (ZTE)

* [AT113-e][004][NR15] Connection Control I (ZTE)

Scope: Treat [R2-2100551](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100551.zip), [R2-2100552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100552.zip), [R2-2100553](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100553.zip), [R2-2100554](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100554.zip), [R2-2100555](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100555.zip), [R2-2100556](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100556.zip), [R2-2100765](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100765.zip), [R2-2100771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100771.zip), [R2-2101732](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101732.zip), [R2-2100557](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100557.zip), [R2-2100558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100558.zip), [R2-2100559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100559.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102365](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102365.zip) Report: [AT113-e][004][NR15] Connection Control I (ZTE) ZTE Corporation

ON-LINE DISCUSSION P3 P4

P3

- ZTE think there was not good TS wording found in the discussion. but can be captured if wanted at a later stage.

- LG wonder about DAPS handover, is the word “current” suitable?

- Chair wonder what we are trying to resolve. A modification is proposed

- Modified proposal: “*RAN2 understanding is that: For scrambling ID related fields (i.e. whose default value is defined as PCI of current serving cell). In case network does not signal the field before (e.g. UE applies default value: PCI), upon handover, if the parent field (Need M) is not included in handover command, then for those child scrambling ID fields, the UE should apply default value of serving cell being configured / used (i.e. PCI of target cell is used for the target cell, not the PCI of source cell)*.”

- Chair: The modified proposal seems to be agreeable, but QC would like to check the modification. Can allow the checking and continue by email

* P3: Continue by email to allow checking, based on the modified proposal above.
* [004] Noted, agreements reflected below.

First Active BWP

[R2-2100551](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100551.zip) Report of Email discussion[061][NR15] Configuration of First Active BWP ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

* [004] Noted

[R2-2100552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100552.zip) CR on condition of SyncAndCellAdd ZTE Corporation, Sanechips, Huawei, HiSilicon CR Rel-15 38.331 15.12.0 2332 - F NR\_newRAT-Core

* [004] Agreed

[R2-2100553](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100553.zip) CR on condition of SyncAndCellAdd ZTE Corporation, Sanechips, Huawei, HiSilicon CR Rel-16 38.331 16.3.1 2333 - A NR\_newRAT-Core

* [004] Agreed

Scrambling ID fields

Countinue last meeting

[R2-2100554](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100554.zip) Further discussion on scrambling ID fields ZTE Corporation, Sanechips, CATT discussion Rel-15 NR\_newRAT-Core

* [004] RAN2 understanding is that: For scrambling ID related fields (i.e. whose default value is defined as PCI of current serving cell). In case network does not signal the field before (e.g. UE applies default value: PCI), upon handover, if the parent field (Need M) is not included in handover command, then for those child scrambling ID fields, the UE should apply default value of serving cell being configured / used (i.e. PCI of target cell is used for the target cell, not the PCI of source cell).

[R2-2100555](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100555.zip) CR to clarify UE behaivour for scrambling ID fields ZTE Corporation, Sanechips, CATT CR Rel-15 38.331 15.12.0 2334 - F NR\_newRAT-Core

[R2-2100556](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100556.zip) CR to clarify UE behaivour for scrambling ID fields ZTE Corporation, Sanechips, CATT CR Rel-16 38.331 16.3.1 2335 - F NR\_newRAT-Core

* [004] CRs in [R2-2100555](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100555.zip) and R2-210556 are not pursued.

FR2 P-max

Countinue last meeting

[R2-2100765](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100765.zip) Clarification on p-Max in FR2 rel-15 NTT DOCOMO, INC. CR Rel-15 38.331 15.12.0 2236 1 F NR\_newRAT-Core R2-2010530

* Agreed

[R2-2100771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100771.zip) Clarification on p-Max in FR2 NTT DOCOMO, INC. CR Rel-16 38.331 16.3.1 2237 1 A NR\_newRAT-Core R2-2010531

* Agreed

DISCUSSION

- ZTE clarifies that there were discussions on how to capture this. UE requirement or Network requirement.

[R2-2101732](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101732.zip) p-Max for FR2 in dedicated signalling Ericsson discussion Rel-15 NR\_newRAT-Core

* [004] Noted

Release of last DRB

[R2-2100557](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100557.zip) Clarification on procedure of DRB release ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

* [004] Noted, Postpone further discussion on the release of last DRB to next meeting (companies can check if anything is needed based on further offline checking)

[R2-2100558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100558.zip) CR to clarify the procedure of DRB release ZTE Corporation, Sanechips CR Rel-15 38.331 15.12.0 2336 - F NR\_newRAT-Core

* [004] Postponed

[R2-2100559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100559.zip) CR to clarify the procedure of DRB release ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2337 - A NR\_newRAT-Core

* [004] Postponed
* [AT113-e][005][NR15] Connection Control II (Apple)

Scope: Treat [R2-2100057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100057.zip), [R2-2101462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101462.zip), [R2-2101459](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101459.zip), [R2-2101166](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101166.zip), [R2-2100945](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100945.zip), [R2-2101019](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101019.zip), [R2-2101267](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101267.zip), [R2-2101268](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101268.zip), [R2-2100841](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100841.zip), [R2-2100756](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100756.zip), [R2-2100757](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100757.zip),

Clarification on SRB1 configuration for RRC resume Ericsson, Intel, ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102293](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102293.zip)  Summary of [AT113-e][005][NR15] Connection Control II (Apple)

DISCUSSION P1-P12 Online

P2/3

- Apple indicate that there was some resistance. Nokia are OK.

P5 / P5b

- ZTE wonders and Apple confirms this is for Pcell

- Ericsson would like to use a separate LS for BWP switch for new issues not asked by R4. This is additional Issue. Chair think we can make clear in the LS what is reply and what it other.

- LG think we only need to mention parameter change and not switch here. ZTE think that we can use the word “change” as well

- Huawei wonder why we need to inform R4. Apple confirms that this is a clarification what happens ar resume etc.

- Nokia think there is no new req to R4 but are OK with this aas information.

P6/6.1/7

- Apple clarifies that the discussion is whether to allow reconfig as-is or only by release/add.

- Nokia think the parameters are different and have different char. Think we should allowed. Ericsson would also like to allow reconfiguration without release/add.

- Intel think that from TS point of view Network can change parameters but think the network will not / shall not change parameters that are critical for L1 operation. For R4 Intel think we can tell R4 that Network is allowed to change.

- MTK think that for common parameters we usually do such reconfigurations by particular procedure, e,g, intra cell HO release/add etc .. but are ok to indicate to R4 that the network can change ..

- Nokia think we need to refer to field names rather than IEs, as these are used in SIBs and dedicated signalling.

- Apple think the proposal is clear and that it refers to dedicated signalling.

- LG think it should not be allowed to do such reconfiguration without release/add as this will introduce complications.

- Huawei and ZTE agrees with Ericsson and Nokia.

- ZTE think we don’t need to clarify if this is a BWP switch or not.

- Samsung think we should clarify what RRC BWP switch is. Intel agrees that we can attempt to agree and think as well that a change of parameter is not a BWP switch. Huawei also agrees.

P9

- LG think that from MAC pow the BWP switch is activate and deactivate BWP (both).

- MTK think that release of active BWP is strange and the UE need to know what is the next active BWP.

- Intel think we don’t need to distinguish the P9 .. RRC switch shall be possible at any time.

- Nokia think this is specifc to R2 and doesn’t affect R4. We can think more about it. Ericsson and Huawei agrees.

* For SpCell, RRC message with a *firstActiveDownlinkBWP-Id* and *firstActiveUplinkBWP-Id* that is different from the UE’s current BWP, results in a BWP switch. No change to spec is needed.
* RAN2 confirms that the modification of *firstActiveDownlinkBWP-Id* and *firstActiveUplinkBWP-Id* for an SCell is not allowed.
* *firstActiveDownlinkBWP-Id* and *firstActiveUplinkBWP-Id* cannot be changed for an SCell in a reconfiguration message when the SCell is deactivated.
* RAN2 confirms that in Rel-15 or in Rel-16, the BWP switching for SCell using RRC message is not be possible. SCell can be released and added again with a different BWP in a single RRC message, but this is not considered as a BWP switch. No spec change needed.
* For Pcell, the active BWP parameters change for the UE or the BWP can be switched during the RRCResume/RRCSetup procedure. Inform R4 about this.
* For P6, P6.1, P7, According to current specification, such reconfigurations (without release/add) can be done both for BWP that are active and/or inactive. RAN2 has not specified whether this is a BWP switch or not.
* Postpone P9 P11

P9: whether the NW can release the active BWP for SpCell using RRC, and if allowed, whether the NW should always provide the firstActiveDownlinkBWP-Id and firstActiveUplinkBWP-Id in the same RRC message.

11: The active BWP of an SCell cannot be released by RRC message.

RRC based BWP Switch

Moved from 5.1

[R2-2100057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100057.zip) LS on RRC based BWP switch for Scell (R4-2017040; contact: Apple) RAN4 LS in Rel-15 NR\_newRAT-Core To:RAN2

* [005] Noted

[R2-2101459](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101459.zip) [Draft] LS Reply on RRC based BWP switch Apple Inc LS out Rel-15 NR\_newRAT-Core To:RAN4

* [005] Revised

[R2-2102476](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102476.zip) LS Reply on RRC based BWP switch RAN2 LS out Rel-15 NR\_newRAT-Core To:RAN4

* [005] approved

Moved from 5.1

[R2-2101462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101462.zip) Discussion on RRC-based BWP switch Apple Inc discussion Rel-15 NR\_newRAT-Core

* [005] Noted

[R2-2101166](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101166.zip) Discussion on RRC based BWP switch for Pcell ZTE Corporation, Sanechips discussion

* [005] Noted

[R2-2100945](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100945.zip) Clarification on RRC based BWP switch for SCell Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core, LTE\_NR\_DC\_CA\_enh-Core

* [005] Noted

[R2-2101019](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101019.zip) RRC-based BWP switch for SpCell and SCells vivo discussion NR\_newRAT-Core

* [005] Noted

Text Enhancements

Skip ACK upon reconfigurationWithSync

[R2-2101267](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101267.zip) Clarification of Note for leaving source cell at reconfigurationWithSync Ericsson CR Rel-15 38.331 15.12.0 2394 - F NR\_newRAT-Core

* [005] Not Pursued

[R2-2101268](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101268.zip) Clarification of Note for leaving source cell at reconfigurationWithSync Ericsson CR Rel-16 38.331 16.3.1 2395 - A NR\_newRAT-Core

* [005] Not Pursued

Local Release

[R2-2100841](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100841.zip) Further Clarification on RRC Local Release vivo discussion

* [005] TP is agreed

RLC Mode in Split bearer

[R2-2100756](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100756.zip) RLC Mode Restrictions Nokia, Ericsson (Rapporteur), Nokia Shanghai Bell CR Rel-15 38.331 15.12.0 2351 - F NR\_newRAT-Core

- [005] Chair: There was no consensus to have this. The condition is already clear in PDCP TS, so it seems not essential to agree these CRs.

* [005] Not Pursued

[R2-2100757](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100757.zip) RLC Mode Restrictions Nokia, Ericsson (Rapporteur), Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2352 - A NR\_newRAT-Core

* [005] Not Pursued

SRB1 Configuration

[R2-2100369](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100369.zip) PDCP re-establishment for SRB1 after RRC Reestablishment Intel Corporation, Ericsson discussion Rel-15 NR\_newRAT-Core

- [005] chair: it was proposed to capture in chair notes as resistance to capture in TS was expected.

* [005] If SRB1 is included in the first RRCReconfiguration after re-establishment, the reestablishPDCP field *is not set to true* for SRB1
* [005] If SRB1 is included in the first RRCReconfiguration after re-establishment, the reestablishRLC field is not set to *true* for SRB1

[R2-2100969](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100969.zip) Clarification on SRB1 configuration for RRC resume Ericsson, Intel, ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

DISCUSSION ONLINE

- LG think this is only network requirement so not captured in TS. Chair think that in particular for resume this may also clarify UE beh. Intel think this could be worth capturing. Huawei think there is no need

* RAN2 confirm that SRB1 configuration is not required in the RRCResume message in the case of fullConfig.
* RAN2 confirm that SRB1 configuration is not required in the RRCResume message in the case of delta signalling.
* If SRB1 is included in the RRCResume, the reestablishPDCP field is not set to true for SRB1.
* If SRB1 is included in the RRCResume, the reestablishRLC field is not set to true for SRB1

Withdrawn

R2-2101167 Discussion on RRC based BWP switch for SCell based on RAN4 LS(R4-2017040) ZTE Corporation, Sanechips discussion Late

=> Withdrawn

#### 5.4.1.2 RRM and Measurements and Measurement Coordination

* [AT113-e][006][NR15] Measurements Misc and System Info (Ericsson)

Scope: Treat [R2-2100063](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100063.zip), [R2-2101834](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101834.zip), [R2-2101422](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101422.zip), [R2-2101423](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101423.zip), [R2-2100751](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100751.zip), [R2-2101285](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101285.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102285](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102285.zip) Report of [Offline-006][NR15] Measurements Misc and System Info Ericsson

* [006] Noted, taken into account and reflected in decisions below

LS in

[R2-2100063](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100063.zip) LS on reporting of SINR measurements for serving cell (R5-206274; contact: Qualcomm) RAN5 LS in To:RAN2

* [006] Noted, will reply

[R2-2101834](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101834.zip) Discussion on reporting of SINR measurements for serving cell MediaTek Inc. discussion

* [006] Noted
* [006] UEs supporting SINR measurements can include SINR metrics for serving cell (per UE implementation) in the measurement report even when the SINR is not configured as a trigger quantity or reporting quantity in any of the measIDs. No TS update is needed for this.

[R2-2102312](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102312.zip) Reply LS on reporting of SINR measurements for serving cell RAN2 LS out

* [006] Approved

Text Enhancements

[R2-2101422](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101422.zip) On trigger quantity related clarification Ericsson CR Rel-16 38.331 16.3.1 2410 - A NR\_newRAT-Core

* [006] Not pursued

[R2-2101423](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101423.zip) On trigger quantity related clarification Ericsson CR Rel-15 38.331 15.12.0 2411 - F NR\_newRAT-Core

* [006] Not pursued

#### 5.4.1.3 System information

[R2-2100751](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100751.zip) The validity of a stored SIB if SI Area ID is absent Fujitsu discussion Rel-15 NR\_newRAT-Core

* [006] Not pursued

#### 5.4.1.5 Other

[R2-2101285](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101285.zip) Miscellaneous non-controversial corrections Set IX Ericsson CR Rel-15 38.331 15.12.0 2399 - F NR\_newRAT-Core

[R2-2102380](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102380.zip) Miscellaneous non-controversial corrections Set IX Ericsson CR Rel-15 38.331 15.12.0 2399 - F NR\_newRAT-Core

* [006] agreed

#### 5.4.1.4 Inter-Node RRC messages

* [AT113-e][007][NR15] Inter Node RRC (Nokia)

Scope: Treat [R2-2100586](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100586.zip), [R2-2100772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100772.zip), [R2-2100773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100773.zip), [R2-2101934](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101934.zip), [R2-2101347](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101347.zip), [R2-2101705](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101705.zip), [R2-2101935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101935.zip), [R2-2101936](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101936.zip), [R2-2101944](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101944.zip), [R2-2101021](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101021.zip), [R2-2101022](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101022.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

SN initiated SCG release

[R2-2100586](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100586.zip) Clarification on inter node signalling upon SN initiated SCG release Samsung Telecommunications CR Rel-16 38.331 16.3.1 2340 - F NR\_newRAT-Core

- [007] RAP Summary 1: Most companies think this must be discussed in RAN3 as to how SN can inform the MN of the SCG radio configuration release (there is a way that this is understood to work for EN-DC and companies think RAN3 could reuse the same principles towards Xn).

* [007] The CR in [R2-2100586](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100586.zip) is not pursued.
* [007] Send LS to RAN3, informing them about this scenario and ask them whether, in current X2/Xn signalling, it is supported for the SN to indicate the SCG release request to the MN.

[R2-2102486](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102486.zip) **[Draft] LS on signalling SN initiated release of SCG Samsung**

- [007] Chairman: I find it somewhat difficult to follow the temporal progression of the discussion when it happens both on the server and by email. My understanding is that the topic was discussed sufficiently that there are no surprises. Furthermore, it seems the controversial parts (asking R3 to do work) was taken out, so the LS should now be acceptable to everyone.

* [007] LS is approved, Final version in R2-2102493

Band combination selection

[R2-2100772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100772.zip) Clarification on band combination selection over inter-node message NTT DOCOMO INC. discussion Rel-15 NR\_newRAT-Core

- [007] Chairman propose to agree to the NTT Docomo proposal. Huawei object. A number of other companies doubt the usefulness but could accept.

- [007] Decision: The Docomo CRs in [R2-2100773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100773.zip) and [R2-2101934](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101934.zip) are not agreed, due to a) several companies doubting the usefulness, b) there was an objection, c) in chairman understanding CR for which there are reasonable doubts on usefulness, there should be full consensus.

- [007] Last day: DoCoMo asks to push for this change. Chairman: as there is no functional change this seems not urgent, if needed we can come back at later time.

- [007] There were no objection to capture the proposed recommendation in Chairman notes.

* [007] Noted
* [007] When configuring allowedBC-ListMR-DC, the MN may increase the probability that the SN finds a suitable SCG configuration by including in this field all entries that comprise at least the PCell band.

[R2-2100773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100773.zip) Clarification on band combination selection over inter-node message NTT DOCOMO INC. CR Rel-15 38.331 15.12.0 2353 - F NR\_newRAT-Core

* [007] Not pursued

[R2-2101934](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101934.zip) Clarification on band combination selection over inter-node RRC message NTT DOCOMO INC. CR Rel-16 38.331 16.3.1 2453 - A NR\_newRAT-Core

* [007] Not pursued

Message size

[R2-2101347](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101347.zip) Discussion on inter-node coordination of message size in MR-DC Samsung Telecommunications discussion NR\_newRAT-Core

* [007] Not pursued

MN and SN configuration restrictions

[R2-2101705](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101705.zip) Discusson on the usage of MN and SN configuration restrictions Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

* [007] noted, not agreed

[R2-2101935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101935.zip) Clarification to usage of MN and SN configuration restrictions Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.12.0 2035 2 F NR\_newRAT-Core R2-2011224

* [007] 2nd change in [R2-2101935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101935.zip) and [R2-210193](file:///D:/Documents/3GPP/tsg_ran/WG2/TSGR2_113-e/Docs/R2-2101935.zip)6 (i.e. explicitly mentioning use of *configRestrictInfo* in SN-initiated procedures) is not pursued
* [007] Change concerning new *CG-Config-v16xy-IEs* in [R2-2101935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101935.zip) and [R2-210193](file:///D:/Documents/3GPP/tsg_ran/WG2/TSGR2_113-e/Docs/R2-2101935.zip)6 is not pursued (i.e. the new fields are not added)

[R2-2102440](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102440.zip) Clarification to usage of MN and SN configuration restrictions Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.12.0 2035 3 F NR\_newRAT-Core

* [007] Agreed

[R2-2101936](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101936.zip) Clarification to usage of MN and SN configuration restrictions Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.0 2036 2 A NR\_newRAT-Core R2-2011225

[R2-2102441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102441.zip) Clarification to usage of MN and SN configuration restrictions Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.0 2036 3 A NR\_newRAT-Core R2-2011225

* [007] Agreed

ASN.1

[R2-2101944](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101944.zip) Lack of late non-critical extensions in inter-node messages Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

- [007] Rap: All companies agree that (some inter-node messages in) Rel-15 cannot be “late NCE” extended. Two companies think this issue is not so critical as network can deal with comprehension of ASN.1 of a later release if required. One company thinks this is desirable to fix at least starting Rel-16. However, if this is done from Rel-16 onwards, this need not be done immediately as it only matter once Rel-17 RRC is created.

* [007] Late NCE mechanism is not introduced to Rel-15.
* [007] RAN2 intends that late NCE mechanism is introduced to Rel-16 INM when Rel-17 RRC specification is created (note that this is proponent driven).

Intra-band EN-DC

Move from 6.1.1

[R2-2101021](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101021.zip) Companion paper for CR proposed for intra-band EN-DC deployment issue Nokia, Nokia Shanghai Bell discussion Rel-16 TEI16

* [007] noted, agreeable

[R2-2101022](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101022.zip) Inter-node messaging for supporting intra-band EN-DC scenarios Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2377 - B TEI16

[R2-2102442](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102442.zip) Inter-node messaging for supporting intra-band EN-DC scenarios Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2377 1 B TEI16

- [Rev1] Chair: This revision was initially indicated as: [007] Agreed

- Late comments from Leonovo:

- Suffices "-r16" are missing for some of the new fields and IEs.

- In the descriptions of the conditions "NE-DC-BC" and "EN-DC-BC" the statement "Otherwise, the field is absent." is missing.

- Description of "Cond FDD" is missing.

* [rev 1] Revised, revision for email approval (short).

Withdrawn

R2-2101931 Clarification to usage of MN and SN configuration restrictions Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.12.0 2451 - F NR\_newRAT-Core Withdrawn

R2-2101932 Clarification to usage of MN and SN configuration restrictions Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.0 2452 - A NR\_newRAT-Core Withdrawn

### 5.4.2 LTE changes related to NR

* [AT113-e][008][NR15] LTE changes (Nokia)

Scope: Treat [R2-2100182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100182.zip), [R2-2100946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100946.zip), [R2-2101863](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101863.zip), [R2-2101864](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101864.zip), [R2-2101882](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101882.zip), [R2-2101881](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101881.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102444](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102444.zip) Summary of [AT113-e][008][NR15] LTE changes (Nokia) Nokia

* [008] Noted

[R2-2100182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100182.zip) A remaining issue in SIB extension Samsung Electronics Co., Ltd discussion Rel-15 NR\_newRAT-Core

- [008] Rap: Summary 1: Quite a majority of the companies do understand that in the transitional period the UE implementation is sufficient and there is no need to specify additional aspects and formalize a UE behavior. However, some companies think that a clarification on the lines proposed by Ericsson may be captured in the chair notes.

* [008] The proposed Changes in [R2-2100182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100182.zip) are not pursued.
* [008] In case the SIB1 scheduling does not match the SI-message content, the UE may be able to decode some of the SIB(s) in the SI-message, but is not required to do so.

[R2-2100946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100946.zip) Handling of 4-layer MIMO in EN-DC for Cat5 UEs Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

- [008] Rap: Intermediate Summary 2: Most of the discussion concerned P2, whereas the main question of P1 received few comments, and almost nobody commented P3/4.

Based on companies’ feedback it's clear that P2 cannot be agreed: Even for Cat5, the MIMO capabilities of the UE in EN-DC may be restricted compared to LTE standalone. Companies also agree that there is no new UE capability expected to be introduced for this issue. Given the fact that there was no real feedback on P3 and P4, it is recommended to continue discussion on P1 as this is the contentious point for the IODT issue.

* [008] intermediate agreement: Continue discussion on P1: i.e. RAN2 to clarify what is the correct interpretation on LTE RI bit width for Cat5 UEs in EN-DC choosing ONE out of the following options:

Option 1) The UE always used 2-bit RI bit width (even if it only supports 2-layer MIMO in EN-DC mode)

Option 2) The used RI bit width depend on the maximum support MIMO layers, i.e. if UE only supports 2 layers in EN-DC, it will use 1-bit RI bit width in EN-DC mode (and it uses 2-bit RI in LTE-only mode).

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

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

Intended outcome: Report

Deadline: Long

[R2-2101863](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101863.zip) Reconfiguring RoHC and setting the drb-ContinueROHC simultaneously Qualcomm Incorporated CR Rel-15 36.331 15.12.0 4595 - F NR\_newRAT-Core

* [008] Agreed

[R2-2101864](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101864.zip) Reconfiguring RoHC and setting the drb-ContinueROHC simultaneously Qualcomm Incorporated CR Rel-16 36.331 16.3.0 4596 - A NR\_newRAT-Core

* [008] Agreed

[R2-2101882](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101882.zip) Correction on IDC indication Samsung CR Rel-15 36.331 15.12.0 4598 - F NR\_newRAT-Core

* [008] Agreed

[R2-2101881](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101881.zip) Correction on IDC indication Samsung CR Rel-16 36.331 16.3.0 4597 - A NR\_newRAT-Core

* [008] Agreed

### 5.4.3 UE capabilities and Capability Coordination

Moved from 5.1:

[R2-2100020](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100020.zip) LS on Interpretation of UE Features in Case of Cross-Carrier Operation (R1-2009623; contact: ZTE) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2

- [000] Chair: Suggest Noted, the contents was taken into account last meeting.

* [000] Noted
* [AT113-e][009][NR15] UE Capabilites EN-DC BCS (Nokia)

Wait: Do not start email discussion until LS from R4 is available,

Scope: Treat Incoming LS from R4. [R2-2100065](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100065.zip), [R2-2100949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100949.zip), [R2-2101664](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101664.zip), [R2-2100388](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100388.zip), [R2-2100481](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100481.zip), [R2-2101562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101562.zip), [R2-2101563](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101563.zip), [R2-2101564](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101564.zip), [R2-2101565](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101565.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102403](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102403.zip) Reply LS to RP-202935 on BCS reporting and support for intra-band EN-DC band combinations RAN4 LSin

* Noted

DISCUSSION

- Nokia think we need CRs to March RP

- Nokia expect no new capability, would like to confirm. QC agrees no new UE cap parameter Intel as well. Apple agrees,

- TMO US think there is combinations that may require a new capability.

- Apple think there is a misunderstanding and that R4 is still discussion BCS0 and think requirement that BCS0 need to be mandatory reported is a misunderstanding. Nokia think that BCS might not always need be reported, but under certain conditions reporting is needed.

- Chair: Not sure we will succeed. CRs should be useful and should have good Q. IF we find that we need to ask R4, this email discussion can also decide to have an LS out (but only if needed). In any case, let us attempt.

* Short Email discussion with the end objective to have CRs for RP, based on the R4 LS.
* [Post113-e][009][NR15] EN-DC BCS (Nokia)

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

Intended outcome: Report and Agreed CRs.

Deadline: Short for RP

EN-DC BCS

R2 Treatment: Wait for R4 progress, If R4 LS becomes available, treat by email (Rapporteur to kick off email discussion) take into account RP LS, R4 LS and input tdocs: conclude whether any change to R2 TS is needed, 2: if needed

Moved from 5.1:

[R2-2100065](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100065.zip) LS on BCS reporting and support for intra-band EN-DC band combinations (RP-202935; contact: Nokia) RAN LS in Rel-15 NR\_newRAT-Core To:RAN2, RAN4

[R2-2100949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100949.zip) Clarifying BCS for inter-band EN-DC band combination with intra-band EN-DC components Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

[R2-2101664](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101664.zip) Discussion on BCS for intra-band EN-DC BC with inter-band component Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

[R2-2100388](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100388.zip) Clarification on BCS reporting and support for intra-band EN-DC band combinations Intel Corporation discussion Rel-15 NR\_newRAT-Core

[R2-2100481](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100481.zip) BCS reporting for intra-band EN-DC band combination Qualcomm Incorporated discussion Rel-15 NR\_newRAT-Core

[R2-2101562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101562.zip) Clarification on the Intra-band and Inter-band EN-DC Capabilities ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

[R2-2101563](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101563.zip) CR on the Intra-band and Inter-band EN-DC Capabilities - R15 ZTE Corporation, Sanechips CR Rel-15 38.306 15.12.0 0517 - F NR\_newRAT-Core

[R2-2101564](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101564.zip) CR on the Intra-band and Inter-band EN-DC Capabilities - R16 ZTE Corporation, Sanechips CR Rel-16 38.306 16.3.0 0518 - A NR\_newRAT-Core

[R2-2101565](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101565.zip) Draft LS on the Intra-band and Inter-band EN-DC Capabilities ZTE Corporation, Sanechips LS out Rel-15 NR\_newRAT-Core To:RAN4/RAN1

* [AT113-e][010][NR15] UE Capabilites II (ZTE)

Scope: Treat [R2-2101559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101559.zip), [R2-2101560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101560.zip), [R2-2100064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100064.zip), [R2-2101561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101561.zip), [R2-2101913](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101913.zip), [R2-2101914](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101914.zip), [R2-2100961](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100961.zip), [R2-2100962](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100962.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102400](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102400.zip) Email discussion summary of [AT113-e][010][NR15] UE Capabilites II (ZTE) ZTE Corporation, Sanechips

* [010] Noted

Bandwidth

[R2-2101559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101559.zip) CR on the SupportedBandwidth/channelBWs-R15 ZTE Corporation, Sanechips CR Rel-15 38.306 15.12.0 0515 - F NR\_newRAT-Core

- [010] Rap: update the CR wording in phase 2 based on the comments and/or the clarification in offline [009]. The solution by not overloading the description with details of intra-band EN-DC BCS is not precluded.

[R2-2102401](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102401.zip) CR on the SupportedBandwidth/channelBWs-R15 ZTE Corporation, Sanechips CR Rel-15 38.306 15.12.0 0515 1 F NR\_newRAT-Core

* [010] Agreed

[R2-2101560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101560.zip) CR on the SupportedBandwidth/channelBWs-R16 ZTE Corporation, Sanechips CR Rel-16 38.306 16.3.0 0516 - A NR\_newRAT-Core

[R2-2102402](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102402.zip) CR on the SupportedBandwidth/channelBWs-R16 ZTE Corporation, Sanechips CR Rel-16 38.306 16.3.0 0516 1 A NR\_newRAT-Core

* [010] Agreed

SUO for intra-band EN-DC

Moved from 5.1:

[R2-2100064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100064.zip) LS on single UL operation (RP-202932; contact: Huawei) RAN LS in Rel-15 NR\_newRAT-Core To:RAN2, RAN4

* [010] Noted

[R2-2101561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101561.zip) Clarification on the SingleUL-Transmission ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

* [010] Noted
* [010] It is mandatory to report *singleUL-Transmission* field for BCs where only single switched UL transmission is allowed as defined in TS 38.101-3.
* [010] For UE with earlier version, if *singleUL-Transmission* field is not included in a BC where only single switched UL transmission is allowed, the network may ignore the BC.
* [010] No need to add a related note in CR for the proposal 3.
* [010] No Modification to the *tdm-Pattern.*
* [010] The BCs that have different *singleUL-Transmission* capabilities shall be reported in different BCs, no spec change is needed.

[R2-2101913](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101913.zip) Clarfication on single uplink operation capability report (LS Contact) Huawei, HiSilicon CR Rel-15 38.306 15.12.0 0524 - F NR\_newRAT-Core

[R2-2102391](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102391.zip) Clarfication on single uplink operation capability report (LS Contact) Huawei, HiSilicon CR Rel-15 38.306 15.12.0 0524 1 F NR\_newRAT-Core

* [010] Agreed

[R2-2101914](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101914.zip) Clarfication on single uplink operation capability report (LS Contact) Huawei, HiSilicon CR Rel-16 38.306 16.3.0 0525 - A NR\_newRAT-Core

[R2-2102392](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102392.zip) Clarfication on single uplink operation capability report (LS Contact) Huawei, HiSilicon CR Rel-16 38.306 16.3.0 0525 1 A NR\_newRAT-Core

* [010] Agreed

[R2-2100961](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100961.zip) Handling of single UL for intra-band EN-DC band combinations Nokia, Nokia Shanghai Bell CR Rel-15 38.306 15.12.0 0497 - F NR\_newRAT-Core

* [010] Not Pursued

[R2-2100962](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100962.zip) Handling of single UL for intra-band EN-DC band combinations Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.3.0 0498 - A NR\_newRAT-Core

* [010] Not Pursued
* [AT113-e][011][NR15] UE Capabilites III (Samsung)

Scope: Treat [R2-2100016](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100016.zip), [R2-2100439](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100439.zip), [R2-2100440](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100440.zip), [R2-2101911](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101911.zip), [R2-2101912](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101912.zip), [R2-2101432](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101432.zip), [R2-2101430](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101430.zip), [R2-2101431](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101431.zip), [R2-2101660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101660.zip), [R2-2101661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101661.zip), [R2-2101354](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101354.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102372](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102372.zip) Summary of [011][NR15] UE Capabilites III (Samsung) Samsung

* [011] Noted, agreements and discussions reflected below

xDD differentiation for SUL

Related to RP-202911, R2 is tasked to provide CRs.

Moved from 5.1:

[R2-2100016](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100016.zip) Reply LS on UE capability xDD differentiation for SUL/SDL bands (R1-2009576; contact: Samsung) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2 Cc:RAN4

* [011] Noted

[R2-2100439](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100439.zip) xDD differentiation of UE capabilities for SUL/SDL bands Samsung CR Rel-15 38.306 15.12.0 0486 - F NR\_newRAT-Core

* [011] Wait RAN1 response how to associate the UE capability differentiation for SDL carriers.
* [011] Postponed

[R2-2100440](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100440.zip) xDD differentiation of UE capabilities for SUL/SDL bands Samsung CR Rel-16 38.306 16.3.0 0487 - A NR\_newRAT-Core

* [011] Postponed

[R2-2101911](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101911.zip) Clarfication on FDD-TDD differentiation for SUL band Huawei, HiSilicon, Intel Corporation CR Rel-15 38.306 15.12.0 0522 - F NR\_newRAT-Core

R2-2102389 Clarfication on FDD-TDD differentiation for SUL band Huawei, HiSilicon, Intel Corporation CR Rel-15 38.306 15.12.0 0522 1 F NR\_newRAT-Core

* [011] Agreed

[R2-2101912](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101912.zip) Clarfication on FDD-TDD differentiation for SUL band Huawei, HiSilicon CR Rel-16 38.306 16.3.0 0523 - F NR\_newRAT-Core

[R2-2102390](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101912.zip) Clarfication on FDD-TDD differentiation for SUL band Huawei, HiSilicon CR Rel-16 38.306 16.3.0 0523 1 F NR\_newRAT-Core

* [011] Agreed

[R2-2101432](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101432.zip) Per UE capability differentiation for SUL bands Ericsson CR Rel-15 38.306 15.12.0 0508 - F NR\_newRAT-Core

* [011] not pursued

**Fallback per CC**

Continue last meeting

[R2-2101430](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101430.zip) Definition of Fallback per CC feature set Ericsson discussion

* [011] Noted

[R2-2101431](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101431.zip) Definition of fallback per CC feature set Ericsson CR Rel-15 38.306 15.12.0 0507 - F NR\_newRAT-Core

* [011] not pursued

[R2-2101660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101660.zip) Discussion on the definition of fallback per CC feature set Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

* [011] Noted

[R2-2101661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101661.zip) CR to clarify the definition of fallback per CC feature set Huawei, HiSilicon CR Rel-15 38.306 15.12.0 0519 - F NR\_newRAT-Core

[R2-2102376](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101661.zip) CR to clarify the definition of fallback per CC feature set Huawei, HiSilicon CR Rel-15 38.306 15.12.0 0519 1 F NR\_newRAT-Core

* [011] Agreed

[R2-2102377](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102377.zip) CR to clarify the definition of fallback per CC feature set Huawei, HiSilicon CR Rel-16 38.306 16.3.0 0529 - A NR\_newRAT-Core

* [011] Agreed

Supported Number of TAG

Continue last meeting

[R2-2101354](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101354.zip) Clarification on the capability of supportedNumberTAG Apple discussion Rel-16 NR\_newRAT-Core, TEI16

* [011] Noted, see email discussion summary above

DISCUSSION Online Only on the topic of TAG

- Apple think option 1, it need to be clear.

- Huawei think option 1 is NBC for network.

- QC think this dep on how network intend to use this. Can intra-band blocks be non-co-located?

- Huawei think inter-band and intra-band are not differentiated in the UE cap. Huawei think that if the UE has dual PA it may support multiple TAG intra-band.

- MTK also support Option 1 but understand the network vendors concerns. LG agrees and think the UE need to able to report real capability.

- CATT also think option 1 ios best and think it can handle all existing Use cases.

- Apple think there is no description for the mixed case.

- QC also support option 1, and don’t really see the gain from the network side to use dual PA of UE.

- Nokia think we can have inter-site CA which would map to the Huawei scenario. With option 1 can the UE even indicate support for such scenario. Apple think Option 2 will be more precise but this brings also more overhead.

- Chair wonder if we can apply Option 1 to current signalling and if we need to support other scenarios we add other signalling. Huawei can compromise. Nokia can also accept option 1 if we can come back if needed to

* TAG Option 1 is Agreed

[R2-2102490](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102490.zip) Clarification on the capability of supportedNumberTAG Apple, Nokia, Nokia Shanghai Bell CR Rel-15 38.306 15.12.0 0535 - F NR\_newRAT-Core

* [011] Agreed

[R2-2102491](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102491.zip) Clarification on the capability of supportedNumberTAG Apple, Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.3.0 0534 3 A NR\_newRAT-Core

* [011] Agreed
* [AT113-e][012][NR15] UE Capabilites IV (Huawei)

Scope: Treat [R2-2100056](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100056.zip), [R2-2101662](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101662.zip), [R2-2101663](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101663.zip), [R2-2101843](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101843.zip), [R2-2101844](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101844.zip), [R2-2101845](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101845.zip), [R2-2101435](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101435.zip), [R2-2101731](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101731.zip), [R2-2101558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101558.zip), [R2-2100970](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100970.zip), [R2-2100971](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100971.zip), [R2-2100972](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100972.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102374](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102374.zip) Summary of [012][NR15] UE Capabilites IV Huawei, HiSilicon

* [012] Noted, taken into acct, agreements reflected below.

Simultaneous Rx/Tx

Moved from 5.1

[R2-2100056](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100056.zip) LS on simultaneous Rx/Tx capability (R4-2016988; contact: Huawei) RAN4 LS in Rel-15 NR\_newRAT-Core To:RAN2

[R2-2101662](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101662.zip) Discussion on simultaneous RxTx capability (LS contact) Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

[R2-2101663](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101663.zip) Draft reply LS on simultaneous RxTx capability Huawei, HiSilicon LS out Rel-15 NR\_newRAT-Core To:RAN4

[R2-2101843](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101843.zip) Discussion on simultaneous Rx/Tx capability MediaTek Inc. discussion

[R2-2101435](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101435.zip) On the use of UE simultaneous Rx/Tx capability Ericsson discussion

* [012] 5 tdocs above are Noted

PHASE 1:

* [012] RAN2 confirms that *simultaneousRxTxInterBandCA* capability applies to any of the two NR bands (if applicable) in a BC (except for NR-DC), and UE shall only include this capability if it supports simultaneous Rx/Tx capability on all applicable NR band pairs. The UE can additionally include fallback BC with different simultaneous RxTx capability compared to the corresponding superset band combination.
* [012] RAN2 informs RAN4 that the UE capability signalling does not account for the indication of support of a feature that needs to be derived from multiple band combinations and which further cases need to be covered from RAN4 perspective.
* [012] RAN2 confirms that absent of the field *simultaneousRxTxInterBandCA* implies that simultaneous RX/TX is not supported for the band combination.
* [012] The clarification on “mandatory to report” for simultaneous Rx/Tx capability is not pursued.
* [012] RAN2 confirms that with the legacy RAN2 signalling, it is feasible to indicate simultaneous RxTx UE capability differently for NR CA and NR-DC.
* [012] RAN2 sends reply LS to RAN4 to inform RAN2 understanding

[R2-2102379](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102379.zip) [Draft] Reply LS on simultaneous Rx/Tx capability Huawei, HiSilicon LS out

* [012] Approved, Final version in R2-2102495

[R2-2101844](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101844.zip) Clarification on the simultaneousRxTxInterBandCA capability in NR-DC MediaTek Inc. CR Rel-15 38.306 15.12.0 0395 1 F NR\_newRAT-Core R2-2007885

[R2-2101845](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101845.zip) Clarification on the simultaneousRxTxInterBandCA capability in NR-DC MediaTek Inc. CR Rel-16 38.306 16.3.0 0396 1 A NR\_newRAT-Core R2-2007887

* [012] Discussion on *simultaneousRxTxInterBandCA* for NR-DC is postponed to the next meeting.
* [012] Both Postponed

**Support K0 > 0 in paging**

Continuation from last meeting

[R2-2101731](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101731.zip) DL scheduling slot offset capability Ericsson, Qualcomm discussion Rel-15 NR\_newRAT-Core R2-2009944

- [012] Rap: Phase 1: 11 companies joined the discussion, 8 companies agree with the Proposal 1 and 3 companies are not sure about the Proposal 1. One company thinks only the issue for paging reception can be addressed and not sure how to impact SI reception, one company thinks UE shall support K0 = 1 for Paging (for both FR1 and FR2) according to R1 feature list 5-1. 5 companies agree with the Proposal 2, 6 companies answer “No” or “Not sure” for Proposal 2. Thus, it is suggested to continue the discussion on whether IOT capability for paging is needed and the relation between IOT capability for paging and SI configuration.

- [012] Phase 1 Continue the discussion on whether the existing IOT capability for K0 should be included in radio paging capabilities, and the relation between IOT capability for paging and *pdsch-TimeDomainAllocationLis*t configuration.

* [012] noted
* [Post113-e][xxx][NR15] DL scheduling slot offset ()

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

Intended outcome: Report with Agreeable proposals

Deadline: Long

**Configuration Limitation per BWP**

[R2-2101558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101558.zip) Clarification on the BWP Configuration Capabilities ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

* [012] RAN2 understands that all of the possible combinations of the configured BWPs on the different bands shall satisfy the *FeatureSetCombination* requirement, any spec clarification is not pursued.

V2X Capabi**lity**

[R2-2100970](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100970.zip) Dummy the capability bit v2x-EUTRA Ericsson discussion Rel-15 NR\_newRAT-Core

* [012] Noted

[R2-2100971](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100971.zip) Dummy the capability bit v2x-EUTRA Ericsson CR Rel-15 38.331 15.12.0 2370 - F NR\_newRAT-Core

* [012] Agreed

[R2-2100972](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100972.zip) Dummy the capability bit v2x-EUTRA Ericsson CR Rel-15 38.306 15.12.0 0499 - F NR\_newRAT-Core

* [012] Agreed

[R2-2102466](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102466.zip) Dummy the capability bit v2x-EUTRA Ericsson CR Rel-15 38.331 15.12.0 2469 - A NR\_newRAT-Core

* [012] Agreed

[R2-2102467](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102467.zip) Dummy the capability bit v2x-EUTRA Ericsson CR Rel-15 38.306 15.12.0 0533 - A NR\_newRAT-Core

* [012] Agreed

Withdrawn

R2-2100947 Handling of single UL for intra-band EN-DC band combinations Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.12.0 2366 - F NR\_newRAT-Core Withdrawn

R2-2100948 Handling of single UL for intra-band EN-DC band combinations Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.0 2367 - A NR\_newRAT-Core Withdrawn

### 5.4.4 Idle/inactive mode procedures

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

* [AT113-e][013][NR15] Idle Inactive (Mediatek)

Scope: Treat [R2-2100181](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100181.zip), [R2-2101249](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101249.zip), [R2-2101250](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101250.zip), [R2-2101355](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101355.zip), [R2-2101840](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101840.zip), [R2-2101896](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101896.zip), [R2-2101897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101897.zip), [R2-2100247](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100247.zip), [R2-2100248](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100248.zip), [R2-2100306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100306.zip), [R2-2100307](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100307.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102310](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102310.zip) Report of [AT113-e][013][NR15] Idle Inactive (Mediatek) MediaTek inc

- [013] Rap: Observation 1: Current SPEC seems unclear on how to handle Inter-RAT cell reselection for mobility state determination. In LTE, it is concluded to be “Leave to UE implementation”.

- [013] Rap Most companies in RAN2 agree that there is no critical performance impact on whether to count inter-RAT cell reselection for mobility state estimation.

* [013] Leave up to UE implementation on whether to count inter-RAT cell reselections for mobility state estimation.
* [013] Send LS to RAN5 to inform the RAN2 conclusion in P1. How to handle the related test case would be RAN5 decision. Continue to discuss the LS Content in phase 2.

Mobility State

[R2-2100181](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100181.zip) Way forward for open issue on mobility state determination Samsung Electronics Co., Ltd discussion Rel-15 NR\_newRAT-Core

[R2-2101249](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101249.zip) Discussion on Inter-RAT Cell Reselection and Mobility State Huawei, HiSilicon discussion Rel-15

[R2-2101840](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101840.zip) Discussion on Inter-RAT Cell Reselection and Mobility State MediaTek Inc. discussion

* [013] 3 tdocs above are Noted

[R2-2101250](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101250.zip) Correction to Inter-RAT Cell Reselection and Mobility State Huawei, HiSilicon CR Rel-16 36.331 16.3.0 4570 - F TEI16

* [013] Not Pursued

[R2-2101355](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101355.zip) Clarification on Inter-RAT Cell Reselection and Mobility State Apple discussion Rel-15 NR\_newRAT-Core, TEI15

* [013] Not Pursued

[R2-2101896](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101896.zip) Clarification of inter-RAT Cell Reselection for Mobility State Determination Qualcomm Incorporated CR Rel-15 38.304 15.7.0 0201 - F NR\_newRAT-Core

* [013] Not Pursued

[R2-2101897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101897.zip) Clarification of inter-RAT Cell Reselection for Mobility State Determination Qualcomm Incorporated CR Rel-16 38.304 16.3.0 0202 - A NR\_newRAT-Core

* [013] Not Pursued

[R2-2102311](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102311.zip) LS on inter-RAT cell reselection for mobility state estimation RAN2 LSout

* [013] approved

Other

[R2-2100247](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100247.zip) Corrections for Inactive OPPO CR Rel-15 38.304 15.7.0 0197 - F NR\_newRAT-Core

* [013] Not Pursued

[R2-2100248](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100248.zip) Corrections for Inactive OPPO CR Rel-16 38.304 16.3.0 0198 - A NR\_newRAT-Core

* [013] Not Pursued

[R2-2100306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100306.zip) Clarification on UE power class in S Criterion-R15 OPPO CR Rel-15 38.304 15.7.0 0199 - F NR\_newRAT-Core

* [013] Not Pursued

[R2-2100307](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100307.zip) Clarification on UE power class in S Criterion-R16 OPPO CR Rel-16 38.304 16.3.0 0200 - A NR\_newRAT-Core

* [013] Not Pursued

## 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.

[R2-2100397](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100397.zip) Remove the NOTE in architecture figure in TS38.305 CATT CR Rel-15 38.305 15.7.0 0054 - F NR\_newRAT-Core

[R2-2100398](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100398.zip) corrections on the indication for the not provided assistance data and location information in TS38.305 CATT CR Rel-15 38.305 15.7.0 0055 - F NR\_newRAT-Core

[R2-2100399](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100399.zip) corrections on the indication for the not provided assistance data and location information in TS38.305 CATT CR Rel-16 38.305 16.3.0 0056 - A NR\_newRAT-Core

[R2-2100400](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100400.zip) corrections on the descriptions of RequestLocationInformation message in TS38.305 CATT CR Rel-15 38.305 15.7.0 0057 - F NR\_newRAT-Core

[R2-2100401](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100401.zip) corrections on the descriptions of RequestLocationInformation message in TS38.305 CATT CR Rel-16 38.305 16.3.0 0058 - A NR\_newRAT-Core

[R2-2101379](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101379.zip) GNSS RTK observations resolution indication Ericsson discussion Rel-15

[R2-2101380](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101380.zip) Correction of A-GNSS Assistance Data RTK Observation Ericsson CR Rel-15 37.355 15.1.0 0285 - F NR\_newRAT-Core

[R2-2101381](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101381.zip) Correction of A-GNSS Assistance Data RTK Observation Ericsson CR Rel-16 37.355 16.3.0 0286 - A NR\_newRAT-Core

[R2-2101465](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101465.zip) Support OTDOA assistance data for case of NR serving cell Qualcomm Incorporated, Ericsson CR Rel-15 38.305 15.7.0 0061 - F NR\_newRAT-Core

[R2-2101468](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101468.zip) Support OTDOA assistance data for case of NR serving cell Qualcomm Incorporated, Ericsson CR Rel-16 38.305 16.3.0 0062 - F NR\_newRAT-Core

[R2-2101815](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101815.zip) Clarification on E-CID and NR E-CID Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

[R2-2101816](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101816.zip) Correction to E-CID-R15 Huawei, HiSilicon CR Rel-15 38.305 15.7.0 0063 - F NR\_newRAT-Core

[R2-2101817](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101817.zip) Correction to E-CID-R16 Huawei, HiSilicon CR Rel-16 38.305 16.3.0 0064 - A NR\_newRAT-Core

[R2-2101926](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101926.zip) Correction on the descritpion for UE capability transfer-R15 Huawei, HiSilicon CR Rel-15 38.305 15.7.0 0066 - F NR\_newRAT-Core

[R2-2101927](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101927.zip) Correction on the descritpion for UE capability transfer-R16 Huawei, HiSilicon CR Rel-16 38.305 16.3.0 0067 - A NR\_newRAT-Core

[R2-2101928](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101928.zip) Correction to 5G support for NB-IOT positioning-R15 Huawei, HiSilicon CR Rel-15 38.305 15.7.0 0068 - F NR\_newRAT-Core

[R2-2101929](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101929.zip) Correction to 5G support for NB-IOT positioning-R16 Huawei, HiSilicon CR Rel-16 38.305 16.3.0 0069 - 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.

Tdoc Limitation: 40 tdocs in total for all sub agenda items, or the restriction for each sub-AI, whichever is more restrictive.

## 6.1 Rel-16 General

Tdoc Limitation: See tdoc limitation for Agenda Item 6

### 6.1.1 General RRC corrections

* [AT113-e][014][NR16] RRC I (Ericsson)

Scope: Treat [R2-2101286](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101286.zip), [R2-2101023](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101023.zip), [R2-2101024](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101024.zip), [R2-2101687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101687.zip), [R2-2101324](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101324.zip), [R2-2101193](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101193.zip), , [R2-2102256](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102256.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102386.zip) [AT113-e][014][NR16] RRC I (Ericsson) Ericsson

* [014] Noted, agreements reflected below

**Miscellaneous**

Moved from 6.1.3

[R2-2101286](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101286.zip) Miscellaneous non-controversial corrections Set IX Ericsson CR Rel-16 38.331 16.3.1 2400 - F NR\_newRAT-Core, TEI16

* [014] revised, treated in short post meeting email discussion
* [Post113-e][014][NR16] RRC (Ericsson)

Scope: Miscellaneous Corrections CR

Intended outcome: Agreed CR.

Deadline: Short RP

[R2-2101023](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101023.zip) Introducing UE Config Release for NR Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2378 - B TEI16

- [014] Rap: Some companies see some benefit (“field exist in LTE”), but since no support by other network vendors, the rapporteur proposes to not agree the CR. As one company remarked, this is a duplication of information.

- [014] was later requested to be postponed.

* [014] Postponed

[R2-2101024](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101024.zip) Improving description of ue-ConfigRelease Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.3.0 4561 - F TEI16

* [014] Postponed

[R2-2101687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101687.zip) Correnctions on the default configuration with Need M Huawei, HiSilicon CR Rel-16 38.331 16.3.1 2428 - F NR\_IAB-Core, 5G\_V2X\_NRSL-Core

[R2-2102298](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102298.zip) Correnctions on the default configuration with Need M Huawei, HiSilicon CR Rel-16 38.331 16.3.1 2428 1 F NR\_IAB-Core, 5G\_ V2X\_NRSL-Core

- [014] Companies agree the CR is needed. Since 38331 rel-16 is “frozen”, this should go as separate CR with statement “shall be implemented” on the cover page.

- [014]CR on Corrections on the default configuration with Need M ([R2-2101687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101687.zip)) shall be revised with sentence “This CR shall be implemented by UE and networks that supports XXX feature” on cover page.

* [014] Revised further

[R2-2102450](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102450.zip) Correnctions on the default configuration with Need M Huawei, HiSilicon CR Rel-16 38.331 16.3.1 2428 2 F NR\_IAB-Core, 5G\_ V2X\_NRSL-Core

* [014] Agreed

[R2-2101324](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101324.zip) Correction on releasing referenceTimePreferenceReporting and other fields Huawei, HiSilicon CR Rel-16 38.331 16.3.1 2403 - F NR\_IIOT-Core

- [014] Rap: There is support for agreeing the changes. Identifyed related/overlapping draft CR in offline #808, [R2-2101425](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101425.zip))

* [014] CR on Correction on releasing referenceTimePreferenceReporting and other fields [R2-2101324](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101324.zip) to be merged with [R2-2101425](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101425.zip) and handled in #808 (to be confirmed)

[R2-2101193](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101193.zip) Correction on stop condition of T320 and T325 ZTE corporation, Sanechips CR Rel-16 38.331 16.3.0 2390 - F NG\_RAN\_PRN-Core

Moved to PRN AI

ASN.1 ToAddMod Guideline

[R2-2101474](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101474.zip) Summary of email discussion [Post112-e][060][NR16] Extension of ToAddMod lists (MediaTek) MediaTek Inc. discussion Rel-16 TEI16

- MTK reports that the CR refelect all output from the email discussion, which converged.

* Noted

[R2-2101475](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101475.zip) ASN.1 guidelines for extension of lists using ToAddMod structure MediaTek Inc. CR Rel-16 38.331 16.3.1 2414 - F TEI16

[R2-2102256](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102256.zip) ASN.1 guidelines for extension of lists using ToAddMod structure MediaTek Inc. CR Rel-16 38.331 16.3.1 2414 1 F TEI16

- Chair: the CR seems overall agreeable, only one comment

- Ericsson found another small issue that need to be fixed.

* Revised, Treat revision by email [014]

[R2-2102292](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102292.zip) ASN.1 guidelines for extension of lists using ToAddMod structure MediaTek Inc. CR Rel-16 38.331 16.3.1 2414 2 F TEI16

* [014] Agreed
* [AT113-e][015][NR16 V2X MOB DCCA] RRC II (OPPO)

Scope: Treat [R2-2100973](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100973.zip), [R2-2100101](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100101.zip), [R2-2100149](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100149.zip), [R2-2101702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101702.zip), [R2-2100102](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100102.zip), [R2-2100103](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100103.zip), [R2-2100104](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100104.zip), [R2-2100974](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100974.zip), [R2-2100975](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100975.zip), [R2-2101535](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101535.zip), [R2-2101169](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101169.zip), [R2-2101182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101182.zip), [R2-2101546](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101546.zip),

[R2-2100680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100680.zip), [R2-2100068](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100068.zip)1, R2-210526,

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102334](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102334.zip) Summary of [AT113-e][015][NR16 V2X MOB DCCA] RRC II (OPPO) OPPO

DISCUSSION

P4

- Nokia think this doesn’t work. This may be useless. LG agrees

- MTK think this is complex, UE need to store. UE can just trigger again based on UE status after the CHO, need no conditions to the history. Can also be left to UE impl. LG agrees

- LG think that the SRC can update the target after the CHO prep.

- QC wonder why this info would be useless (nokias comment). QC think that if OH issue is reported in the SRC, UE can update e..g if the OH condition is ceased. QC also think MTK proposal is ok.

- vivo also think this can work, think we need solution in any case.

- Samsung think this is not about retransmitting something but is about sending information acc to current status.

- Nokia also think the MTK proposal is good.

* CHO preparation is not required to be re-triggered due to the UE information procedure.
* If CHO is configured, the UE can assume that the target cell gNB knows about UE information status previously provided in the source cell that was provided there by the UE up to 1s before the UE reception of ConditionalReconfiguration
* If the UE information status in the UE has changed since the above point in time, the UE may need to update the UE information to the target cell after HO execution, FFS if the UE can unconditionally always update the target in this case. FFS how to / if to specify.

CHO

[R2-2100104](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100104.zip) CR on co-configuration of CHO and UAI and SUI report OPPO CR Rel-16 36.331 16.3.0 4544 - F 5G\_V2X\_NRSL-Core, NR\_Mob\_enh-Core

[R2-2101169](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101169.zip) Retransmission of UE information after CHO Google Inc. CR Rel-16 36.331 16.3.0 4569 - F MBMS\_LTE\_SC-Core, SPIA\_IDC\_LTE-Core, LTE\_feMob-Core, 5G\_V2X\_NRSL-Core, LTE\_eDDA-Core

[R2-2101182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101182.zip) Retransmission of UE information after CHO Google Inc. CR Rel-16 38.331 16.3.1 2389 - F NR\_Mob\_enh-Core, 5G\_V2X\_NRSL-Core, NR\_UE\_pow\_sav-Core

* [015] CRs above Postponed, as there still are FFSes in the related agreements

Moved from Mobility Section:

[R2-2100680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100680.zip)   UE information transmission in NR CHO case        SHARP Corporation, Ericsson  discussion        NR\_Mob\_enh-Core       R2-2010253

[R2-2100681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100681.zip)   UE information transmission in LTE CHO case      SHARP Corporation, Ericsson  discussion        Rel-16  NR\_Mob\_enh-Core       R2-2010251

[R2-2100526](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100526.zip)   Transmitting SL UE Information after CHO Nokia, Nokia Shanghai Bell        CR   Rel-16  38.331  16.3.1   2331     -           F          NR\_Mob\_enh-Core

* [015] 3 tdocs above are Noted

[R2-2102410](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102410.zip) Summary of [AT113-e][015][NR16 V2X MOB DCCA] RRC II (OPPO) OPPO

* [015] Noted, taken into account below

**Coexistence V2X MOB DCCA**

Discussion

[R2-2100973](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100973.zip) Coexistance of DAPS and Sidelink Ericsson discussion Rel-16 NR\_Mob\_enh-Core, 5G\_V2X\_NRSL-Core

[R2-2100101](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100101.zip) Co-configuration of V2X and other features OPPO discussion Rel-16 NR\_Mob\_enh-Core, 5G\_V2X\_NRSL-Core, LTE\_NR\_DC\_CA\_enh-Core

[R2-2100149](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100149.zip) DAPS HO and NR Sidelink Communication Samsung Electronics Co., Ltd               discussion            Rel-16    5G\_V2X\_NRSL-Core

* [015] 3 tdocs above Noted
* [015] DAPS HO and NR sidelink communication cannot be configured together in R16.
* [015] DAPS HO and V2X sidelink communication cannot be configured together in R16.

CRs

[R2-2101702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101702.zip) Clarification on DAPS HO configuration      vivo        CR          Rel-16    38.331   16.3.1               2430      -             F             5G\_V2X\_NRSL-Core

- [015] Rap: a stage-2 CR for a NOTE in Phase-2 (handled by the author of 1702).

* [015] Not Pursued

[R2-2102448](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102448.zip) Clarification on DAPS HO configuration      vivo        CR          Rel-16    38.300   16.4.0               0346      1           F             5G\_V2X\_NRSL-Core

* [015] Agreed

[R2-2100102](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100102.zip) CR on co-configuration of NR-V2X and other features OPPO CR Rel-16 38.331 16.3.1 2301 - F NR\_Mob\_enh-Core, 5G\_V2X\_NRSL-Core, LTE\_NR\_DC\_CA\_enh-Core

- [015] Rap: Move the stage-3 CR of 0102 (change-2) into Phase-2. Move the stage-3 CR of 0102 (Change-3) into Phase-2.

* [015] revised

[R2-2102411](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102411.zip) CR on co-configuration of NR-V2X and other features OPPO CR Rel-16 38.331 16.3.1 2301 1 F NR\_Mob\_enh-Core, 5G\_V2X\_NRSL-Core, LTE\_NR\_DC\_CA\_enh-Core

* [015] Agreed

[R2-2100103](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100103.zip) CR on Co-configuration of NR-V2X and MR-DC OPPO CR Rel-16 37.340 16.4.0 0245 - F 5G\_V2X\_NRSL-Core

[015] Rap: Move the stage-2 CR of 0103 into Phase-2, e.g., including update to clarify that SL cannot be configured in MR-DC in this release.

* [015] revised

[R2-2102412](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102412.zip) CR on Co-configuration of NR-V2X and MR-DC OPPO CR Rel-16 37.340 16.4.0 0245 1 F 5G\_V2X\_NRSL-Core

* [015] Agreed

**Measurement V2X POS**

[R2-2100974](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100974.zip) Correction to meaqsResultServingMOList impacting EN-DC Ericsson CR Rel-16 38.331 16.3.1 2371 - F NR\_newRAT-Core, 5G\_V2X\_NRSL-Core

* [015] agreed

[R2-2100975](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100975.zip) Correction to measResultPCell impacting EN-DC Ericsson CR Rel-16 36.331 16.3.0 4557 - F NR\_newRAT-Core, 5G\_V2X\_NRSL-Core

* [015] agreed

[R2-2101535](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101535.zip) CR on measurement object modification ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2418 - F NR\_pos-Core, 5G\_V2X\_NRSL-Core

- [015] Rap: Move the CR in 1535 to Phase-2 to address the comment on cover page.

* [015] Revised

[R2-2102415](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102415.zip) CR on measurement object modification ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2418 1 F NR\_pos-Core, 5G\_V2X\_NRSL-Core

* [015] agreed

**MOB DCCA**

[R2-2101546](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101546.zip) Clarification on ULInformationTransferMRDC message ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2419 - F NR\_Mob\_enh-Core, LTE\_NR\_DC\_CA\_enh-Core

- [015] Rap: Move the CR of 1546 (change-1) into Phase-2, to address the comment on the wording.

* [015] revised

[R2-2102416](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102416.zip) Clarification on ULInformationTransferMRDC message ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2419 1 F NR\_Mob\_enh-Core, LTE\_NR\_DC\_CA\_enh-Core

* [015] agreed
* [AT113-e][016][POS V2X NR16] RRC III (Ericsson)

Scope: Treat [R2-2101733](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101733.zip), [R2-2101825](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101825.zip), [R2-2100302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100302.zip), [R2-2101571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101571.zip), [R2-2100887](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100887.zip), [R2-2100888](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100888.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

[R2-2102294](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102294.zip) Summary of [AT113-e][016][POS V2X NR16] RRC III Ericsson

* [016] Noted, agreements reflected below

**System information POS, V2X, General**

[R2-2101733](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101733.zip) Clarification for SIBs scheduled in posSchedulingInfoList Ericsson CR Rel-16 38.331 16.3.0 2433 - F NR\_newRAT-Core

* [016] revised

[R2-2102404](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102404.zip) Clarification for SIBs scheduled in posSchedulingInfoList Ericsson CR Rel-16 38.331 16.3.0 2433 1 F NR\_newRAT-Core

* [016] Agreed

[R2-2101825](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101825.zip) Correction to the UE action upon SIB1 reception Huawei, HiSilicon, Ericsson CR Rel-16 38.331 16.3.0 2441 - F NR\_pos-Core

- [016] Not clear whether there is interest to come back to this at a later meeting.

* [016] not agreed

[R2-2100302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100302.zip) Clarficiations on the required SIB or posSIB CATT CR Rel-16 38.331 16.3.1 2317 - F NR\_pos-Core, 5G\_V2X\_NRSL-Core

* [016] The CR in [R2-2100302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100302.zip) is revised
* [016] only the following change in section 5.2.2.1 is ageed: “The UE shall ensure having a valid version of the required posSIB upon receiving a positioning request from upper layer.”

[R2-2102468](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102468.zip) Clarficiations on the required SIB or posSIB CATT CR Rel-16 38.331 16.3.1 2317 1 F NR\_pos-Core, 5G\_V2X\_NRSL-Core

* [016] Agreed

Moved from 6.16

[R2-2101571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101571.zip) Corrections to on-demand SI ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2423 - F TEI16

* [016] The second change in CR [R2-2101571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101571.zip) is agreed to be included in the Rapporteur’s CR.

IIOT Unlic

[R2-2100887](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100887.zip) Co-configuration of NR-IIoT and other features OPPO discussion Rel-16 NR\_IIOT-Core, NR\_unlic-Core

DISCUSSION

- Chair asks companies to take into account the guideline provided in [000]

P1

- QC think this issue of P1 is fixed in the MAC TS think this is captured in the Chair notes. This is a corner case and it doesn't make sense to prohibit the whole feature. Ericsson agrees with QC, ZTE as well. FW agrees with QC. Huawei would prefer not to capture in R16.

- Samsung think restriction if any should BE RRC. Apple agrees as well.

- LG wonder if P1 is same as [025] P1, support the latter and it will fix also this issue. For R17 it has been agreed to support both, and it can be applied to R16 (but most companies doesn/t want to).

- CATT would be ok to just capture in chair notes on the recommendation, e.g. for lch based prio and cg retx timer.

P2

- For P2, on DCI format this need to come from R1. ZTE can follow majority. Samsung think P2 is obvious and should be agrees. Apple can follow majority. Ericsson think this has been captures somewhere and nothing needed. What is the majority view

- QC think that for P2 it is obvious.

- Oppo think this could be related to UE capability.

DISCUSSION [025] Proposal 1: Discuss if we should capture “*lch-basedPrioritization* is not jointly configured with *cg-retransmissionTimer* in Rel-16” in TS 38.331.

- QC think there is no issue. QC think there is no issue. Ericsson agrees that chair notes don’t capture any technical issue.

- Nokia summarizes that the issue is the timer behaviour, CgRetxTime stopping has been introduced by lchBasedPrio and it doesn’t restart, and this behaviour is different and hasn’t been analysed. CATT think that the prioritization in MAC becomes contradicting. QC think this is easy to fix and we can have a small correction.

- LG doesn’t want to discuss any fix.

- Capture “joint configuration of *lch-basedPrioritization* with *cg-retransmissionTimer* is not supported in this release” in R16 TS 38.331.

Chair: We are working on several of these cross-WI issues in R17, seems to be generally known. For some issue we might need to capture something somewhere, to avoid rediscussion.

* The issue of whether R16 UE is not expected to receive DCI format 0\_2/1\_2 for unlicensed band, whether it need to be captured and were is POSTPONED (companies are encouraged to check)
* [Post113-e][xxx][NR16] cgRetxTimer (QC)

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

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

Deadline: Long

[R2-2100888](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100888.zip) CR on co-configuration of NR-IIoT and other features OPPO CR Rel-16 38.331 16.3.1 2363 - F NR\_IIOT-Core, NR\_unlic-Core

Not Treated

### 6.1.2 NR Feature Lists and UE capabilities

Includes NR UE capability updates related to R1 and R4 feature lists. V2X and Mobility capabilities are handled separately under the V2X WI. Including outcome of [Post112-e][062][NR16] RAN2 Feature List for TR (Intel).

R2 Feature list

Treat on-line First

* [AT113-e][017][NR16] R16 Feature List TR (Intel)

Scope: Make agreeable CR for TR 38.822, Based on [R2-2100378](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100378.zip), [R2-2100621](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100621.zip), Can also discuss in this discussion any misalignments with the TSs.

Intended outcome: Agreed CR.

Deadline: EOM

CLOSED

DISCUSSION

For [017] Rel-16 feature list, whether to go for another cycle to the next meeting. how stable is the R1 feature list? - need to incorporate any changes from RAN2.

Do we expect one-shot change or shall we expect another revision? Should consider the completeness of the feature lists.

- Intel proposes to postpone. Also the discussion doesn’t progress so well no comments.

- Huawei think correctness is important so we should postpone

* Postponed to next Q

[R2-2100378](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100378.zip) Report of [Post112-e][062][NR16] RAN2 Feature List for TR (Intel) Intel Corporation discussion Rel-16 TEI16

- Intel think the R2 feature list in the Annex can be endorsed.

- Intel think there is still some remaining comments that need tobe addressed .suggest email with the other feature lists.

- Lenovo think we added some TEI features that are now missing in 306. Chair wonder if there is impact to 331. Intel think not, possibly conditional mandatory or optional wo signalling.

- Chairman think we can assess whether there is a need to update any TS while working on this.

- QC think MPS RACH prioritization is optional and we might be missing a capability bit.

* Appendix is endorsed (as baseline input to the meeting)

[R2-2100621](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100621.zip) UE Feature list for NR Rel-16 Intel Corporation draftCR Rel-16 38.822 15.0.1 TEI16

- Intel explains that this doc includes R1 and R4 feature lists. And it will be used as baseline for email discussion. R2 feature list will be merged into this one.

- Apple wonders what to do with R15 then, it is not completely accurate. Intel think we agreed to only update R16. Chair think that for this meeting we stick to our agreement to focus on R16.

- LG think we can make some complementary changes in the R16 CR to correct the R15 parts ..

* For now we focus on R16 (stick to agreement)
* Noted

**General capability**

[R2-2100018](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100018.zip) LS on updated Rel-16 RAN1 UE features lists for NR (R1-2009586; 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

* [000] Noted, already taken into account

[R2-2100053](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100053.zip) LS on Rel-16 updated RAN4 UE features lists for LTE and NR (R4-2016849; contact: CMCC) RAN4 LS in Rel-16 To:RAN2, RAN1

* [000] Noted, already taken into account
* [AT113-e][018][NR16] UE Cap Main (Intel)

Scope: Treat [R2-2100018](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100018.zip), [R2-2100053](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100053.zip), [R2-2101058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101058.zip), [R2-2100060](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100060.zip), [R2-2100954](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100954.zip), [R2-2101433](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101433.zip), [R2-2100013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100013.zip), [R2-2100452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100452.zip), [R2-2100453](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100453.zip), [R2-2100454](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100454.zip), [R2-2101020](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101020.zip), [R2-2100008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100008.zip), [R2-2100148](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100148.zip)6, [R2-2100455](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100455.zip), [R2-2100385](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100385.zip), [R2-2100386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100386.zip), [R2-2101873](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101873.zip), [R2-2101874](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101874.zip), [R2-2101821](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101821.zip) + Incoming LSes at meeting, if any.

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs.

Deadline: Schedule A

Online Feb 2 on [018]

- Intel clarifies that we received an LS form R4 with one change. Asking Proponent Company to provide CR

- MTK confirms to provide CR

- Think R1 feature list will be provide after the meeting. A lot of change is expected. Chair: Will have an email discussion after the meeting, to have CRs for RP. Somewhat best-effort, and case by case judgement what can be included vs not.

[R2-2102409](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102409.zip) [AT113-e][018][NR16] Summary of UE Cap Main (Intel) Intel

* [018] noted, taken into acct, agreements are reflected below

R4 features

[R2-2102296](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102296.zip) LS on Rel-16 updated RAN4 UE features lists for LTE and NR RAN4 LSin

* [018] Noted
* [018] Generate the TS38.306/331 CRs based on the 6-3 of R4 feature list.

DCCA - can be taken into account if when LS from R4 is received.

[R2-2101821](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101821.zip) Capability for dormant BWP switching of multiple SCells MediaTek Inc. discussion Rel-16

* [018] Noted

[R2-2102429](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102429.zip) Capability for dormant BWP switching of multiple SCells MediaTek Inc CR Rel-16 38.306 16.3.0 0500 - F LTE\_NR\_DC\_CA\_enh-Core

* [018] Agreed

[R2-2102428](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102428.zip) Capability for dormant BWP switching of multiple SCells MediaTek Inc CR Rel-16 38.331 16.3.1 2456 - F LTE\_NR\_DC\_CA\_enh-Core

* [018] Agreed

R1 Features

[R2-2101020](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101020.zip) Fixing issue with FGs 22-8a/b/c/d Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.3.0 0500 - F TEI16

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

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

Intended outcome: Agreed CRs

Deadline: Short for RP

Other TEI features

[R2-2101058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101058.zip) Handling of other TEI features Lenovo, Motorola Mobility discussion Rel-16 TEI16

**[018] Phase 1**

* ****[018] The feature eCall over IMS should be defined as optional feature w/o capability signalling.****
* ****[018] “UAC-AC1-SelectAssistInfo-r16 in SIB1” should be defined as optional without capability signalling.****
* ****[018] “PRACH prioritization parameters for MPS and MCS in RACH-ConfigCommon” should be defined as optional without capability signalling.****

[R2-2102325](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102325.zip)Addition of TEI16 features Lenovo, Motorola Mobility CR Rel-16 38.306 16.3.0 0528 - F NR\_newRAT-Core

* [018] Agreed

Mandatory RRM requirements

Move from 6.15

[R2-2100060](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100060.zip) LS on Rel-16 mandatory RRM requirements (R4-2017803; contact: CMCC) RAN4 LS in Rel-16 NR\_RRM\_enh-Core To:RAN2

* [018] Noted

[R2-2100954](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100954.zip) Capturing suppport of mandatory Rel-16 requirements Nokia, Nokia Shanghai Bell discussionRel-16 NR\_RRM\_enh-Core

ON LINE

- Nokia think these are Rel15-features, so we need some way to interpret the signalled capabilities.

- QC think R2 shouldn’t capture anything and R4 can clarify what requirements are applied.

- MTK agrees with QC and think a requirement is usually mandatory. Think we may need to capture many things for other features. Huawei agree with MTK and QC and think this will lead to confusion. Vivo agrees we don’t need to capture anything in R2 TS

- Intel think that is we use the Rel-ind to indicate requirements this is risky, we should then have a separate capability, Samsung agrees that if we rely ion the REl IND we cannot know if this has been IOT tested.

- Ericsson think we don’t need to have req in the R2 TS but if we need differentiation we need to be clear somehow, we can introduce new bits for this case.

- Vivo think we should just reply to the LS

* Continue by email.

**Phase 1 [018]**

* ****[018] AS release indicator is sufficient for the mandatory RAN4 Rel-16 RRM requirements****
* ****[018] There is a no need to capture the mandatory Rel-16 RRM requirements in TS38.306****
* ****[018] inform RAN5 in the RAN2 reply LS to RAN4 so that RAN5 is made aware of these mandatory RAN4 Rel-16 RRM requirements****

[R2-2102338](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102338.zip)Reply LS on Rel-16 mandatory RRM requirements RAN2 LSout

* [018] Approved

xDD differentiation

[R2-2101433](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101433.zip) Clarification on UE capabilities with FDD/TDD differentiation Ericsson CR Rel-16 38.306 16.3.0 0509 - F NR\_newRAT-Core

* ****[018] Update the CR with title of Table A.2-1 the**** “Rel-15“ ****can be removed. Further detailed comments to the CR can be discussed in Part 2.****

[R2-2102436](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102436.zip)Clarification on UE capabilities with FDD/TDD differentiation Ericsson CR Rel-16 38.306 16.3.0 0509 1 F NR\_newRAT-Core

* [018] Agreed

**beamSwitchTiming**

[R2-2100013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100013.zip) Reply LS to RAN2 on beamSwitchTiming (R1-2009496; contact: vivo) RAN1 LS in Rel-16 TEI16 To:RAN2

* [018] Noted

[R2-2100452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100452.zip) Correction on beamSwitchTiming capability vivo, Intel Corporation CR Rel-15 38.306 15.12.0 0488 - F TEI16

R2-2102424 Correction on beamSwitchTiming capability vivo, Intel Corporation CR Rel-15 38.306 15.12.0 0488 1 F TEI16

* [018] agreed

[R2-2100453](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100453.zip) Correction on beamSwitchTiming capability vivo, Intel Corporation CR Rel-16 38.306 16.3.0 0489 - A TEI16

R2-2102425 Correction on beamSwitchTiming capability vivo, Intel Corporation CR Rel-16 38.306 16.3.0 0489 1 A TEI16

* [018] agreed

[R2-2100454](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100454.zip) Correction on beamSwitchTiming-r16 capability vivo, Intel Corporation CR Rel-16 38.306 16.3.0 0490 - F TEI16

R2-2102426 Correction on beamSwitchTiming-r16 capability vivo, Intel Corporation CR Rel-16 38.306 16.3.0 0490 1 F TEI16

* [018] agreed

eMIMO

Move from 6.14

[R2-2100008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100008.zip) LS on TPMI grouping capability (R1-2009449; contact: vivo) RAN1 LS in Rel-16 NR\_eMIMO-Core To:RAN2

* [018] Noted

[R2-2100455](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100455.zip) Correction on TPMI grouping capability vivo, Intel Corporation CR Rel-16 38.306 16.3.0 0491 - F NR\_eMIMO-Core

**- [018] Rap: Agree to pursue the CRs in** [R2-2100455](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100455.zip)**. Update the first change with ‘**where the leading / leftmost bit (bit 0) corresponds to {TPMI index = 0}. The next bit (bit 1) corresponds to {TPMI index = 1} and the TPMI index is as specified in Table 6.3.1.5-1 of TS 38.211 [6]**’ as per comment. Further detailed comments to the CRs, if any, can be discussed in Part 2.**

R2-2102427 Correction on TPMI grouping capability vivo, Intel Corporation CR Rel-16 38.306 16.3.0 0491 1 F NR\_eMIMO-Core

* [018] Agreed

Move from 6.14.2

[R2-2101486](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101486.zip) Correction on UE capabilities for enhanced MIMO Huawei, HiSilicon CR Rel-16 38.306 16.3.0 0513 - F NR\_eMIMO-Core

* ****[018] Agree to pursue the CR in**** [R2-2101486](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101486.zip)****. Only the Change 1 is needed. Update the CR with** “**The capability signalling comprises the following parameters:“.Further detailed comments to the CR can be discussed in Part 2.

R2-2102455 Correction on UE capabilities for enhanced MIMO Huawei, HiSilicon CR Rel-16 38.306 16.3.0 0513 1 F NR\_eMIMO-Core

* [018] Agreed

SRVCC

[R2-2100385](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100385.zip) UE capability of NR to UTRA-FDD CELL\_DCH CS handover Intel Corporation CR Rel-16 38.306 16.3.0 0485 - F SRVCC\_NR\_to\_UMTS-Core

R2-2102407 UE capability of NR to UTRA-FDD CELL\_DCH CS handover Intel Corporation CR Rel-16 38.306 16.3.0 0485 1 F SRVCC\_NR\_to\_UMTS-Core

* [018] Agreed

[R2-2100386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100386.zip) UE capability of NR to UTRA-FDD CELL\_DCH CS handover Intel Corporation CR Rel-16 38.331 16.3.1 2321 - F SRVCC\_NR\_to\_UMTS-Core

R2-2102408 UE capability of NR to UTRA-FDD CELL\_DCH CS handover Intel Corporation CR Rel-16 38.331 16.3.1 2321 1 F SRVCC\_NR\_to\_UMTS-Core

* [018] Agreed

**URLLC**

[R2-2101873](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101873.zip) CR on the Capability of PUCCH transmissions for HARQ-ACK-38331 ZTE Corporation, Sanechips,Intel CR Rel-16 38.331 16.3.0 2447 - F NR\_L1enh\_URLLC

R2-2102263 CR on the Capability of PUCCH transmissions for HARQ-ACK-38331 ZTE Corporation, Sanechips,Intel CR Rel-16 38.331 16.3.0 2447 1 F NR\_L1enh\_URLLC

* [018] Agreed

[R2-2101874](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101874.zip) CR on the Capability of PUCCH transmissions for HARQ-ACK-38306 ZTE Corporation, Sanechips,Intel CR Rel-16 38.306 16.3.0 0521 - F NR\_L1enh\_URLLC

R2-2102264 CR on the Capability of PUCCH transmissions for HARQ-ACK-38306 ZTE Corporation, Sanechips,Intel CR Rel-16 38.306 16.3.0 0521 1 F NR\_L1enh\_URLLC

* [018] Agreed

Not Available

R2-2101948 Configuration for directional collision handling between reference cell and other cell for half-duplex operation in CA Nokia Italy CR Rel-16 38.331 16.3.1 2456 - F TEI16 Late

W*ithdrawn*

R2-2101946 Configuration for directional collision handling between reference cell and other cell for half-duplex operation in CA Nokia Italy CR Rel-16 38.331 16.3.1 2017 1 F TEI16 R2-2008825 Withdrawn

### 6.1.3 Other

Other issue that do not fit under any other topic.

**PUSCH with UL skipping**

* [AT113-e][019][NR16 IIOT] UL Skipping (vivo)

Scope: Treat [R2-2100028](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100028.zip), [R2-2100138](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100138.zip), [R2-2100524](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100524.zip), [R2-2100218](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100218.zip), [R2-2101793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101793.zip), [R2-2101794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101794.zip), [R2-2100340](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100340.zip), [R2-2101776](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101776.zip), [R2-2101352](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101352.zip), [R2-2101377](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101377.zip), [R2-2101378](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101378.zip), [R2-2101456](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101456.zip), [R2-2100341](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100341.zip), [R2-2100855](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100855.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Reports and Agreed CRs if any is agreeable.

Deadline: Schedule A

[R2-2102458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102458.zip) Report of [AT113-e][019][NR16 IIOT] UL Skipping vivo

* [019] Noted, agreements reflected below
* [019] The Rel-16 dynamic UL skipping is optional with capability signaling.
* [019] A new UE capability is introduced for Rel-16 CG PUSCH skipping.
* [019] The Rel-16 CG PUSCH skipping is per-UE level, optional with capability signaling, FDD-TDD-DIFF, and not FR1-FR2-DIFF.
* [019] A new RRC parameter is introduced to enable Rel-16 CG PUSCH skipping.
* [019] Working assumption: When lch-BasedPrioritization is not configured and Rel-16 CG/DG PUSCH skipping is enabled, DG always overrides CG. This working assumption is not agreed until confirmed by RAN1.
* [019] Working assumption: The MAC entity does not generate a MAC PDU for a deprioritized uplink grant even when its associated PUSCH is overlapping with PUCCH. This working assumption is not agreed until confirmed by RAN1.

Move from 5.1

[R2-2100028](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100028.zip) LS on PUSCH skipping with UCI in Rel-16 (R1- 2009772; contact: vivo) RAN1 LS in Rel-16 NR\_newRAT-Core, TEI16 To:RAN2

[R2-2100138](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100138.zip) Remaining Issues on PUSCH Skipping with UCI in Rel-16 vivo discussion Rel-16 TEI16

[R2-2100340](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100340.zip) UL PUSCH skipping without intra-UE prioritization Ericsson discussion Rel-16

[R2-2101776](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101776.zip) Updates to RAN2 aspects of PUSCH with UL skipping Huawei, HiSilicon discussion Rel-16 TEI16

Move from 6.16

[R2-2101352](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101352.zip) RAN2 Impact on UL Skipping Enhancement Apple discussion Rel-16 NR\_newRAT-Core, TEI16

IIOT – moved here

[R2-2100341](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100341.zip) UL PUSCH skipping with Intra-UE prioritization Ericsson discussion Rel-16

[R2-2100855](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100855.zip) UL skipping and intra-UE prioritization Apple discussion Rel-16 NR\_IIOT-Core

* [019] The 7 tdocs above are Noted

LS out

[R2-2100524](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100524.zip) Draft Reply LS on PUSCH skipping with UCI in Rel-16 vivo LS out Rel-16 TEI16 To:RAN1

* [019] revised

[R2-2102462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102462.zip)    Reply LS on PUSCH skipping with UCI in Rel-16     RAN2 LS out  Rel-16     TEI16      To:RAN1

* [019] Approved

MAC

[R2-2101377](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101377.zip) MAC CR on UL skipping enhancement Apple CR Rel-16 38.321 16.3.0 1031 - F NR\_newRAT-Core, TEI16

* [019] Not Pursued

[R2-2100218](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100218.zip) Correction for DG and CG UL skipping with UCI overlap CATT CR Rel-16 38.321 16.3.0 1009 - F TEI16

* [019] Not Pursued

R2-2102459   Correction to PUSCH skipping with UCI without LCH-based prioritization      Huawei, HiSilicon, vivo, Nokia, Nokia Shanghai Bell, Samsung, Ericsson, OPPO, CATT     CR   Rel-16     38.321    16.3.0     1062 -      F     TEI16

* [019] Agreed

RRC

[R2-2101378](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101378.zip) RRC CR on UL skipping enhancement Apple CR Rel-16 38.331 16.3.1 2408 - F NR\_newRAT-Core, TEI16

* [019] Not Pursued

[R2-2101793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101793.zip) Correction on CG-DG skipping capabilities and configuration when PUCCH with UCI overlaps with PUSCH CATT CR Rel-16 38.331 16.3.1 2439 - F TEI16

* [019] Not Pursued

R2-2102460   Correction to PUSCH skipping with UCI without LCH-based prioritization      vivo, Samsung      CR   Rel-16    38.331    16.3.1     2466       -      F     TEI16

* [019] Agreed.

UE Cap 306

[R2-2101456](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101456.zip) UE capability on UL skipping enhancement Apple CR Rel-16 38.306 16.3.0 0510 - F NR\_newRAT-Core, TEI16

* [019] Not Pursued

[R2-2101794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101794.zip) Correction on CG and DG skipping capabilities when PUCCH with UCI overlaps with PUSCH CATT CR Rel-16 38.306 16.3.0 0520 - F TEI16

R2-2102461 Correction on CG and DG skipping capabilities when PUCCH with UCI overlaps with PUSCH CATT CR Rel-16 38.306 16.3.0 0520 1 F TEI16

R2-2102478 Correction on CG and DG skipping capabilities when PUCCH with UCI overlaps with PUSCH CATT, vivo CR Rel-16 38.306 16.3.0 0520 2 F TEI16

* [019] Agreed

**MAC PH type**

* [AT113-e][020][NR16] MAC PH type (QC)

Scope: Treat [R2-2100734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100734.zip), [R2-2100314](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100314.zip), [R2-2100733](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100733.zip), [R2-2101777](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101777.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Reports and Agreed CRs if any is agreeable.

Deadline: Schedule A

[R2-2102373](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102373.zip) Report on [AT113-e][020][NR16] MAC PH type (Qualcomm) Qualcomm

* [020] Noted
* [020] No change to the legacy timeline for PH type determination, unless RAN1 decide otherwise.
* [020] No change to the legacy UE behavior for PHR reporting in case of skipped PUSCH.

[R2-2100734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100734.zip) Configuration and capability signaling for enhanced PHR timeline Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Apple, Ericsson CR Rel-16 38.331 16.3.0 2350 - F TEI16

* [020] Not Pursued

[R2-2100314](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100314.zip) Correction to timeline for determining PH type Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Apple, Ericsson CR Rel-16 38.321 16.3.0 1012 - F TEI16

* [020] Not Pursued

[R2-2100733](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100733.zip) UE capability for enhanced PHR timeline Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Apple, Ericsson CR Rel-16 38.306 16.3.0 0494 - F TEI16

* [020] Not Pursued

Move from 6.16

[R2-2101777](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101777.zip) Discussion on PHR reporting for PUSCH skipping Huawei, HiSilicon discussion Rel-16 TEI16

* [020] Not Pursued

## 6.2 Integrated Access and Backhaul

(NR\_IAB-Core; leading WG: RAN2; REL-16; started: Dec 18; target Aug 20; WID: RP-200840)

Tdoc Limitation: 8 tdocs, See also tdoc limitation for Agenda Item 6

* [AT113-e][021][IAB] RRC and Stage 2 (ZTE)

Scope: Treat [R2-2100465](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100465.zip), [R2-2101278](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101278.zip), [R2-2101684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101684.zip), [R2-2100469](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100469.zip), [R2-2100470](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100470.zip), [R2-2101279](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101279.zip), [R2-2101280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101280.zip), [R2-2101685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101685.zip), [R2-2101686](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101686.zip), [R2-2101904](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101904.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A

[R2-2102314](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102314.zip)  Summary of [AT113-e][021][IAB] RRC and Stage 2 (ZTE) ZTE

* [021] Noted, agreements reflected below

### 6.2.1 General and Stage-2 Corrections

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

[R2-2100465](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100465.zip) Miscellaneous corrections to TS 38.300 for IAB vivo CR Rel-16 38.300 16.4.0 0332 - F NR\_IAB-Core

* [021] Merge The 1st, 2nd and 3rd change of [R2-2100465](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100465.zip) into rapporteur CR

[R2-2101278](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101278.zip) Miscellaneous corrections on IAB in 38.300 ZTE, Sanechips CR Rel-16 38.300 16.4.0 0337 - F NR\_IAB-Core

* [021] Merge The 2nd change of [R2-2101278](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101278.zip); into rapporteur CR
* [021] merge the other editorial changes in [R2-2101278](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101278.zip) into State-2 rapporteur CR.
* [021] revised

R2-2102315 Miscellaneous corrections on IAB in 38.300 ZTE, Sanechips CR Rel-16 38.300 16.4.0 0337 1 F NR\_IAB-Core

* [021] agreed

[R2-2101684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101684.zip) Corrections for IAB related configurations and procedures on TS 38.300 Huawei, HiSilicon, Qualcomm Incorporated CR Rel-16 38.300 16.4.0 0341 - F NR\_IAB-Core

* [021] The 1st change in [R2-2101684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101684.zip) is not pursued.
* [021] merge the 3rd and 4th change in [R2-2101684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101684.zip) into Stage-2 rapporteur CR.
* [021] merge the other editorial changes in [R2-2101684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101684.zip) into State-2 rapporteur CR.

### 6.2.4 RRC Corrections

38331 36331 (Ericsson)

[R2-2100469](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100469.zip) Miscellaneous corrections to TS 38.331 for IAB vivo CR Rel-16 38.331 16.3.1 2326 - F NR\_IAB-Core

* [021] Agree the intention of 1st 2nd and 5th change in [R2-2100469](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100469.zip) and merge it into RRC rapporteur CR.
* [021] The 3rd and 4th change in [R2-2100469](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100469.zip) is not pursued.

[R2-2100470](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100470.zip) Correction on RLC-Config of BH RLC channel vivo CR Rel-16 38.331 16.3.1 2327 - F NR\_IAB-Core

* [021] The CR in [R2-2100470](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100470.zip) is not pursued.

[R2-2101279](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101279.zip) Correction on AvailabilityCombinationsPerCell IE in 38.331 ZTE, Sanechips CR Rel-16 38.331 16.3.1 2397 - F NR\_IAB-Core

* [021] Agree to merge the change in [R2-2101279](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101279.zip) into RRC rapporteur CR.

[R2-2101280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101280.zip) Miscellaneous corrections on IAB in 38.331 ZTE, Sanechips CR Rel-16 38.331 16.3.1 2398 - F NR\_IAB-Core

* [021] Agree the intention of 3rd and 4th change in [R2-2101280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101280.zip) and merge it into RRC rapporteur CR.
* [021] Agree to merge the 1st and 2nd change in [R2-2101280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101280.zip) into RRC rapporteur CR. For the 1st change, the correction in clause 5.3.2 and 5.3.7.3 is not pursued.
* [021] Postpone the 5th change in [R2-2101280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101280.zip).
* [021] revised

R2-2102316 Miscellaneous corrections on IAB in 38.331 ZTE, Sanechips CR Rel-16 38.331 16.3.1 2398 1 F NR\_IAB-Core

* [021] agreed

[R2-2101685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101685.zip) Corrections on BAP address and default BAP configuration Huawei, HiSilicon, Ericsson CR Rel-16 38.331 16.3.1 2427 - F NR\_IAB-Core

* [021] Agree the intention of 1st and 2nd change in [R2-2101685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101685.zip).
* [021] revised

R2-2102477 Corrections on BAP address and default BAP configuration Huawei, HiSilicon, Ericsson CR Rel-16 38.331 16.3.1 2427 1 F NR\_IAB-Core

* [021] Agreed

[R2-2101686](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101686.zip) Corrections on the P-max for IAB Huawei, HiSilicon, Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.3.0 4588 - F NR\_IAB-Core

* [021] Agreed

[R2-2101904](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101904.zip) Correction on ULInformationTransfer failure Samsung R&D Institute UK discussion

* [021] Agree to merge the change proposed in [R2-2101904](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101904.zip) into RRC rapporteur CR.
* [AT113-e][022][IAB] User Plane (vivo)

Scope: Treat [R2-2100224](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100224.zip), [R2-2100466](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100466.zip), [R2-2100467](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100467.zip), [R2-2101281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101281.zip), [R2-2101452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101452.zip), [R2-2101683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101683.zip), [R2-2100468](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100468.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Reports and Agreed CRs if any is agreeable.

Deadline: Schedule A

[R2-2102397](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102397.zip)  Report of [022] IAB] User Plane (vivo) vivo

* [022] Noted, proposals taken into acct and reflected below

### 6.2.2 BAP Corrections

38340 (HW)

[R2-2100224](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100224.zip) Clarify the Buffer Type in Flow Control Feedback CATT CR Rel-16 38.340 16.3.0 0011 - F NR\_IAB-Core

* [022] The CR in [R2-2100224](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100224.zip) is not pursued.

[R2-2100467](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100467.zip) Discussion on the modelling of BAP layer vivo discussion NR\_IAB-Core

* [022] The functionality of BAP Control PDU handling should be explicitly modelled in BAP entity
* [022] Noted

[R2-2100466](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100466.zip) Correction on the illustration of BAP entity vivo CR Rel-16 38.340 16.3.0 0012 - F NR\_IAB-Core

* [022] Agree the intention of the 1st change of the CR proposed in [R2-2100466](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100466.zip), but to revise the CR to include the comments provided by other companies.
* [022] Agree the editorial changes proposed in [R2-2100466](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100466.zip):

a) Replace defaultUL-BH-RLC-channel with defaultUL-BH-RLC-Channel.

b) Update routing ID to BAP routing ID.

* [022] revised

[R2-2102398](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102398.zip) Correction on the illustration of BAP entity vivo CR Rel-16 38.340 16.3.0 0012 1 F NR\_IAB-Core

* [022] Agreed

[R2-2101281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101281.zip) Miscellaneous corrections on IAB in 38.340 ZTE, Sanechips CR Rel-16 38.340 16.3.0 0013 - F NR\_IAB-Core

* [022] Agree to merge the editorial changes proposed in [R2-2101281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101281.zip) into the BAP rapporteur’s CR.

[R2-2101452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101452.zip) Handling of Unknown and Reserved Values in the BAP Header Ericsson discussion NR\_IAB-Core

- [Rev1] Chairman comment: It is important to have clear extension principles. Even though for UP compatibility can be handled by configuration, for easy extension, R2 frequently anyway apply B, i.e. ignore non-recognized information.

* [022] Noted
* [022] The scenario in which a Rel.16 IAB is the next hop for an IAB node of a future release is possible.
* [022] No enhancements at this moment (not needed, or can be specified when necessary) for the issue brought up by [R2-2101452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101452.zip).

[R2-2101683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101683.zip) Miscellaneous corrections to 38.340 for IAB Huawei, HiSilicon (Rapporteur) CR Rel-16 38.340 16.3.0 0014 - F NR\_IAB-Core

* [022] The 1st change (in section 5.5) proposed in the CR [R2-2101683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101683.zip) is not pursued.
* [022] Agree the intention of the 2nd change (in clause 5.1.1) proposed in the CR [R2-2101683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101683.zip), but to revise the change in clause 5.1.1 to *‘follow the procedures in clause 5’.*
* [022] revised

[R2-2102299](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102299.zip) Miscellaneous corrections to 38.340 for IAB Huawei, HiSilicon (Rapporteur) CR Rel-16 38.340 16.3.0 0014 1 F NR\_IAB-Core

* [022] Agreed

### 6.2.3 User plane Corrections

38321 (Samsung)

[R2-2100468](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100468.zip) Corrections on the description of Pre-emptive BSR and Guard Symbols MAC CEs vivo CR Rel-16 38.321 16.3.0 1017 - F NR\_IAB-Core

* [022] Agree the 1st and 3rd changes proposed in the CR [R2-2100468](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100468.zip), Revised

[R2-2102399](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102399.zip) Corrections on the description of Pre-emptive BSR and Guard Symbols MAC CEs vivo CR Rel-16 38.321 16.3.0 1017 1 F NR\_IAB-Core

* [022] Agreed

### 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.

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

Tdoc Limitation: 4 tdocs. See also tdoc limitation for Agenda Item 6

### 6.3.1 General and Stage-2 Corrections

Including incoming LSs, Wi or TS rapporteur inputs, etc.

[R2-2100006](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100006.zip) Reply LS on UE capability on wideband carrier operation for NR-U (R1-2009385; contact: MediaTek) RAN1 LS in Rel-16 NR\_unlic-Core To:RAN4 Cc:RAN2

[R2-2100228](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100228.zip) Discussion on differentiation of Rel-16 features for NR operation in shared spectrum Huawei, HiSilicon discussion Rel-16 NR\_unlic-Core

### 6.3.2 User plane

[R2-2100217](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100217.zip) Handling of deprioritized CG PDU when both cg-RetransmissionTimer and lch-basedPrioritization are configured CATT CR Rel-16 38.321 16.3.0 1008 - F NR\_unlic-Core

[R2-2101669](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101669.zip) Corrections on the start of the configuredGrantTimer Beijing Xiaomi Mobile Software CR Rel-16 38.321 16.3.0 1044 - F NR\_unlic-Core

### 6.3.3 Control plane

[R2-2100183](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100183.zip) Correction on RSSI and channel occupancy measurements Samsung Electronics Co., Ltd CR Rel-16 38.331 16.3.1 2306 - F NR\_unlic-Core

[R2-2100870](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100870.zip) Discussion on NR-U RSSI/CO measurement Apple, xiaomi discussion Rel-16 NR\_unlic-Core

[R2-2100871](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100871.zip) Clarification on NR-U RSSI measurement procedure Apple CR Rel-16 38.331 16.3.1 2360 - F NR\_unlic-Core

[R2-2101163](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101163.zip) RRC Corrections for NR-U (Rel-16) ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2387 - F NR\_unlic-Core

[R2-2101164](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101164.zip) Corrections to UE capability for NR-U (Rel-16) ZTE Corporation, Sanechips CR Rel-16 38.306 16.3.0 0502 - F NR\_unlic-Core

[R2-2101269](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101269.zip) Correction to search space switch configuration Ericsson CR Rel-16 38.331 16.3.1 2396 - F NR\_unlic-Core

[R2-2101491](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101491.zip) Correction on description of measResultForRSSI and of conditional presence SharedSpectrum Huawei, HiSilicon CR Rel-16 38.331 16.3.1 2415 - 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).

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

Tdoc Limitation: 9 tdocs. See also tdoc limitation for Agenda Item 6

CR rapporteurs will take care of miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company first for small changes (e.g. non-controversial clarification/correction, editorial correction, etc.).

### 6.4.1 General and Stage-2 corrections

Including incoming LSs, rapporteur inputs, etc.

[R2-2100009](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100009.zip) LS reply on SL CG handling (R1-2009460; contact: Ericsson) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

[R2-2100010](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100010.zip) LS on R16 V2X Mode-2 agreements to capture in MAC specification (R1-2009474; contact: Intel) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

[R2-2100011](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100011.zip) LS reply on RAN2 agreements and RAN1 related issues (R1-2009475; contact: Intel) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

[R2-2100012](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100012.zip) Reply LS on definition of NR V2X con-current operation (R1-2009491; contact: Huawei) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN4 Cc:RAN2

[R2-2100017](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100017.zip) LS on configurable values for sl-DCI-ToSL-Trans (R1-2009577; contact: Ericsson) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

[R2-2100022](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100022.zip) Reply LS on UE capability for V2X (R1-2009635; contact: OPPO) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2 Cc:RAN4

[R2-2100023](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100023.zip) Reply LS on maximum data rate for NR sidelink (R1-2009643; contact: OPPO) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

[R2-2100024](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100024.zip) LS reply on RAN1 agreement on pre-emption (R1-2009661; contact: Intel) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

[R2-2100061](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100061.zip) LS on SL switching priority (R4-2017839; contact:Xiaomi) RAN4 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN1 Cc:RAN2

[R2-2100073](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100073.zip) Reply to LS C1-206576 on the re-keying procedure for NR SL (S3-203483; contact: LGE) SA3 LS in Rel-16 eV2XARC To:RAN2, CT1

[R2-2100687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100687.zip) CR for TS 38.300 for NR V2X on miscellaneous issues ZTE Corporation, Sanechips CR Rel-16 38.300 16.4.0 0335 - F 5G\_V2X\_NRSL-Core

### 6.4.2 Control plane corrections

This agenda item may utilize a summary document on RRC (Huawei).

[R2-2100115](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100115.zip) Correction on reset configuration OPPO CR Rel-16 38.331 16.3.1 2302 - F 5G\_V2X\_NRSL-Core

[R2-2100116](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100116.zip) Clarification on the inter-frequency operation OPPO, Nokia, Nokia Shanghai Bell, Samsung Electronics, MediaTek Inc. CR Rel-16 38.331 16.3.1 2303 - F 5G\_V2X\_NRSL-Core

[R2-2100118](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100118.zip) Left issue on reset configuration OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2100149](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100149.zip) DAPS HO and NR Sidelink Communication Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

R2-2100150 Corrections to SL Resource Configuration Samsung Electronics Co., Ltd CR Rel-16 38.331 16.3.1 2305 - F 5G\_V2X\_NRSL-Core Withdrawn

[R2-2100210](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100210.zip) Correction on the Sidelink RRC Recofiguration Procedure CATT CR Rel-16 38.331 16.3.1 2314 - F 5G\_V2X\_NRSL-Core

[R2-2100230](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100230.zip) Correction on value range of sl-ConfigIndexCG OPPO CR Rel-16 38.331 16.3.1 2315 - F 5G\_V2X\_NRSL-Core

[R2-2100231](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100231.zip) Miscellaneous Correction on RRC spec for NR SL communication OPPO CR Rel-16 38.331 16.3.1 2316 - F 5G\_V2X\_NRSL-Core

[R2-2100500](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100500.zip) Miscellaneous corrections to TS 38.331 ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2328 - F 5G\_V2X\_NRSL-Core

[R2-2100501](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100501.zip) Corrections on the actions of measurement configuration in TS 38.331 ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2329 - F 5G\_V2X\_NRSL-Core

[R2-2100502](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100502.zip) Editorial corrections in TS 38.331 ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2330 - D 5G\_V2X\_NRSL-Core

[R2-2100785](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100785.zip) Lower layer indication in PC5 unicast link re-keying procedure vivo CR Rel-16 38.331 16.3.1 2354 - F 5G\_V2X\_NRSL-Core

[R2-2100786](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100786.zip) PC5-RRC connection release requested by upper layers vivo CR Rel-16 38.331 16.3.1 2355 - F 5G\_V2X\_NRSL-Core

[R2-2100787](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100787.zip) Clarification on SSB interval value 0 vivo CR Rel-16 38.331 16.3.1 2356 - F 5G\_V2X\_NRSL-Core

[R2-2100788](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100788.zip) Correction on T400 expiry behavior vivo CR Rel-16 38.331 16.3.1 2357 - F 5G\_V2X\_NRSL-Core

[R2-2100789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100789.zip) Support RLC Re-establishment vivo discussion

[R2-2100790](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100790.zip) Message protection for NR Sidelink vivo discussion

[R2-2100919](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100919.zip) Clarficiations on RRC Parameter sl-ThresPSSCH-RSRP CATT CR Rel-16 38.331 16.3.1 2364 - F 5G\_V2X\_NRSL-Core

[R2-2100976](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100976.zip) Protection of sidelinkUEInformation and ULInformationTrasferIRAT Ericsson CR Rel-16 38.331 16.3.1 2372 - F 5G\_V2X\_NRSL-Core

[R2-2100977](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100977.zip) Protection of sidelinkUEInformation and ULInformationTrasferIRAT Ericsson CR Rel-16 36.331 16.3.0 4558 - F 5G\_V2X\_NRSL-Core

[R2-2100978](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100978.zip) Corrections regarding sidelink impacting NR Ericsson CR Rel-16 38.331 16.3.1 2373 - F 5G\_V2X\_NRSL-Core

[R2-2101232](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101232.zip) Clarification with respect to validity of configured SL grant type 1 received in HO command Nokia, Nokia Shanghai Bell discussion Rel-16 5G\_V2X\_NRSL-Core R2-2009990

[R2-2101234](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101234.zip) Correction on SL configured grant type 1 validity under Uu RLF Nokia, Nokia Shanghai Bell, Ericsson, LG Electronics, Qualcomm, CATT CR Rel-16 38.331 16.3.1 2391 - F 5G\_V2X\_NRSL-Core

[R2-2101596](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101596.zip) Miscellaneous corrections on 38.331 Xiaomi communications CR Rel-16 38.331 16.3.0 2424 - B 5G\_V2X\_NRSL-Core

[R2-2101655](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101655.zip) Correction on sl-MeasConfig configuration Google Inc. CR Rel-16 38.331 16.3.1 2426 - F 5G\_V2X\_NRSL-Core

[R2-2101702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101702.zip) Clarification on DAPS HO configuration vivo CR Rel-16 38.331 16.3.1 2430 - F 5G\_V2X\_NRSL-Core

R2-2101703 Clarification on DAPS HO configuration vivo CR Rel-16 38.331 16.3.1 2431 - F 5G\_V2X\_NRSL-Core Withdrawn

[R2-2101740](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101740.zip) Correction on SL LCP restriction of configured grant type 1 ASUSTeK CR Rel-16 38.331 16.3.0 2434 - F 5G\_V2X\_NRSL-Core Revised

[R2-2101760](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101760.zip) Miscellaneous corrections on TS 36.331 (Rapportuer CR) Huawei, Hisilicon CR Rel-16 36.331 16.3.0 4591 - F 5G\_V2X\_NRSL-Core

[R2-2101761](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101761.zip) Miscellaneous corrections on TS 38.331 (Rapportuer CR) Huawei, Hisilicon CR Rel-16 38.331 16.3.1 2437 - F 5G\_V2X\_NRSL-Core

[R2-2101767](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101767.zip) CR on LCP restriction parameters for configured SL grant type1 Huawei, HiSilicon CR Rel-16 38.331 16.3.1 2438 - F 5G\_V2X\_NRSL-Core

[R2-2101940](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101940.zip) Correction on SL LCP restriction of configured grant type 1 ASUSTeK CR Rel-16 38.331 16.3.1 2434 1 F 5G\_V2X\_NRSL-Core [R2-2101740](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101740.zip)

### 6.4.3 User plane corrections

Including [POST112-e][701][V2X] RAN1 related discussion (OPPO). This agenda item may utilize a summary document on MAC (LG).

[R2-2100098](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100098.zip) Summary of email discussion [701][V2X] RAN1 related discussion (OPPO) OPPO discussion Rel-16 Late

[R2-2100099](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100099.zip) CR on Correction on SL CG and mode2 operation OPPO CR Rel-16 38.321 16.3.0 1001 - F 5G\_V2X\_NRSL-Core Late

[R2-2100117](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100117.zip) Left issue on HARQ feedback for CG OPPO, vivo, Apple, InterDigital, Qualcomm, ZTE Corporation, Sanechips, CATT discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2100119](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100119.zip) Miscellaneous Correction on NR-V2X OPPO CR Rel-16 38.321 16.3.0 1002 - F 5G\_V2X\_NRSL-Core

[R2-2100120](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100120.zip) Left issue with RAN1 impact OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2100211](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100211.zip) Miscellaneous Correction on TS38.321 CATT CR Rel-16 38.321 16.3.0 1005 - D 5G\_V2X\_NRSL-Core

[R2-2100212](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100212.zip) Modification on the Formula of Calculating the SL\_RESOURCR\_RESELECTION\_COUNTER's Range CATT CR Rel-16 38.321 16.3.0 1006 - F 5G\_V2X\_NRSL-Core

[R2-2100213](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100213.zip) Correction on the UL Threshold and SL Threshold CATT CR Rel-16 38.321 16.3.0 1007 - F 5G\_V2X\_NRSL-Core

[R2-2100323](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100323.zip) Clarification on the Notes for UL Prioritization CATT CR Rel-16 38.321 16.3.0 1014 - F 5G\_V2X\_NRSL-Core

[R2-2100412](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100412.zip) Cancellation of triggered SL-CSI reporting SHARP Corporation discussion 5G\_V2X\_NRSL-Core

[R2-2100503](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100503.zip) Miscellaneous corrections to TS 38.321 ZTE Corporation, Sanechips CR Rel-16 38.321 16.3.0 1018 - F 5G\_V2X\_NRSL-Core

[R2-2100504](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100504.zip) Corrections on LCP in TS 38.321 ZTE Corporation, Sanechips CR Rel-16 38.321 16.3.0 1019 - F 5G\_V2X\_NRSL-Core

[R2-2100688](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100688.zip) Correction on PDCP entity re-establishment ZTE Corporation, Sanechips CR Rel-16 38.323 16.2.0 0063 - F 5G\_V2X\_NRSL-Core

[R2-2100791](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100791.zip) Left issues on TX resource (re-)selection vivo, OPPO, Apple discussion

[R2-2100792](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100792.zip) Clarification on sidelink process ID in SCI vivo discussion

[R2-2100793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100793.zip) Draft LS to RAN1 on HARQ process number in SCI vivo LS out To:RAN1

[R2-2100794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100794.zip) Draft LS to RAN1 on TX resource (re-)selection vivo LS out To:RAN1

[R2-2100861](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100861.zip) Correction for HARQ Options for SL groupcast Apple CR Rel-16 38.321 16.3.0 1022 - F 5G\_V2X\_NRSL-Core

[R2-2101068](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101068.zip) Miscellaneous corrections to 38.321 Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.3.0 1027 - D 5G\_V2X\_NRSL-Core

[R2-2101149](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101149.zip) Correction to Uu DRX with sidelink Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.3.0 1028 - F 5G\_V2X\_NRSL-Core

[R2-2101741](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101741.zip) MAC Corrections for NR V2X ASUSTeK CR Rel-16 38.321 16.3.0 1045 - F 5G\_V2X\_NRSL-Core

[R2-2101742](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101742.zip) MAC Corrections for sidelink BSR triggering ASUSTeK CR Rel-16 38.321 16.3.0 1046 - F 5G\_V2X\_NRSL-Core

[R2-2101925](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101925.zip) Corrections on MCS selection Huawei, HiSilicon CR Rel-16 38.321 16.3.0 1056 - F 5G\_V2X\_NRSL-Core

### 6.4.4 UE capabilities

This agenda item may utilize a summary document (OPPO).

[R2-2100114](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100114.zip) Update on V2X UE capability OPPO CR Rel-16 38.306 16.3.0 0482 - F 5G\_V2X\_NRSL-Core

[R2-2100923](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100923.zip) Correction to UE actions related to reception of the UECapabilityEnquirySidelink Samsung Electronics, OPPO CR Rel-16 38.331 16.3.0 2365 - F 5G\_V2X\_NRSL-Core

[R2-2101244](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101244.zip) On the peer UE capability transfer in unicast sidelink Nokia, Nokia Shanghai Bell discussion Rel-16 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)

Tdoc Limitation: 4 tdocs. See also tdoc limitation for Agenda Item 6

* [AT113-e][025][IIOT] RRC (Nokia)

Scope: Treat [R2-2100712](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100712.zip), [R2-2101340](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101340.zip), [R2-2101941](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101941.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Agreed CRs if any is agreeable.

Deadline: Schedule A

[R2-2102317](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102317.zip) Phase-1 Summary of Email Discussion [AT113-e][025] Nokia, Nokia Shanghai Bell

DISCUSSION ONLINE P1

- Many companies think no CR is needed, but some companies think it is good to capture this in the TS.

- Harmonization of features is done in Rel-17 but there is no need to update Rel-16. Ericsson think it is not prevented that these are configured together. If the network can avoid issues there is no problem. QC shares ericsson’s view.

- LG think that in R16 we never discussed this. Root cause is the previous agreement about autonomous tx. LG think it would be safer to capture in the TS. Previous agreement was not accurate. Should have a common view. Can discuss where to capture this.

- Samsung think there may be a joint configuration issue. Don’t want to discuss this for Rel-16.

- Proposal is to capture this in RRC in field descriptions of LCH based prioritization.

- Chair would like to include this in a more general discussion. LG request to not come back tomorrow.

- LG would like to confirm that simultaneous configuration wasn’t discussed. Ericsson think we also didn’t agree the opposite. Chair think that if we forbid a configuration the reason should be that we expect issues.

- CATT think that one issue is that NR-U and IIOT prioritization have contradicting behaviour,rs. Nokia think we have different assumptions for timer running for NR U and IIOT. QC think this has not been discussed on a technical level. QC think the proposed agreement is too broad.

- Chair many companies want to agree: In R-16, in order to not work on resolving MAC contradiction issues, R2 assumes that lch based prioritization is not configured with CG retransmission timer.

- LG opposes to have tech discussion in the scope of Rel-16.

* For P1, discuss with other similar issues where to/how to capture (AP Chair to schedule CB)

### 6.5.1 General and Stage-2 corrections

Incoming LS etc.

### 6.5.2 RRC Corrections

[R2-2100712](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100712.zip) Configuration of AutonomousTX and cg-retransmission timer Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2349 - F NR\_IIOT-Core

* [025] discuss by email to next meeting

[R2-2101340](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101340.zip) Correction on the configuration of Type 1 configured grant Huawei, HiSilicon CR Rel-16 38.331 16.3.1 2404 - F NR\_IIOT-Core

* [025] Agreed

[R2-2101743](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101743.zip) LCP restriction for allowedCG-List and configuredGrantType1Allowed ASUSTeK CR Rel-16 38.331 16.3.0 2435 - F NR\_IIOT-Core Revised

[R2-2101941](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101941.zip) LCP restriction for allowedCG-List and configuredGrantType1Allowed ASUSTeK CR Rel-16 38.331 16.3.1 2435 1 F NR\_IIOT-Core [R2-2101743](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101743.zip)

* [025] Not pursued

### 6.5.3 MAC Corrections

User Plane I

* [AT113-e][023][IIOT] User Plane I (Samsung)

Scope: Treat [R2-2100026](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100026.zip), [R2-2100219](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100219.zip), [R2-2100889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100889.zip), [R2-2100890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100890.zip), [R2-2101004](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101004.zip), [R2-2101005](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101005.zip), [R2-2101511](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101511.zip), [R2-2100714](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100714.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A

[R2-2102279](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102279.zip) Report of Offline 023: IIOT User Plane I Samsung

* [023] Noted, proposals are taken into acct and are reflected below

Incoming LS

[R2-2100026](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100026.zip) Reply LS on Intra UE Prioritization Scenario (R1-2009680; contact: vivo) RAN1 LS in Rel-16 NR\_IIOT-Core To:RAN2

* [023] noted. No action is required.

other

[R2-2100219](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100219.zip) Explicit discard of UL grants colliding with UL grants in RAR, or to TC-RNTI, or of MSGA payload CATT CR Rel-16 38.321 16.3.0 1010 - F NR\_IIOT-Core

* [023] Not Pursued

[R2-2100889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100889.zip) Correction on ignored uplink grant associated to RACH procedure\_Alt1 OPPO CR Rel-16 38.321 16.3.0 1023 - F NR\_IIOT-Core

* [023] Not Pursued

[R2-2100890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100890.zip) Correction on ignored uplink grant associated to RACH procedure\_Alt2 OPPO CR Rel-16 38.321 16.3.0 1024 - F NR\_IIOT-Core

* [023] Not Pursued

[R2-2101004](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101004.zip) Correction for Uplink Grant Received in RAR and Addressed to Temporary C-RNTI (Option 1) Samsung, Ericsson, ZTE, Nokia, Huawei, HiSilicon CR Rel-16 38.321 16.3.0 1025 - F NR\_IIOT-Core

* [023] Not Pursued

[R2-2101005](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101005.zip) Correction for Uplink Grant Received in RAR and Addressed to Temporary C-RNTI (Option 2) Samsung, Ericsson, ZTE, Nokia, CATT, Huawei, HiSilicon CR Rel-16 38.321 16.3.0 1026 - F NR\_IIOT-Core

R2-2102484 Correction for Uplink Grant Received in RAR and Addressed to Temporary C-RNTI (Option 2) Samsung, Ericsson, ZTE, Nokia, CATT, Huawei, HiSilicon CR Rel-16 38.321 16.3.0 1026 1 F NR\_IIOT-Core

* [023] Agreed

[R2-2101511](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101511.zip) UL transmission scheduled with temporary C-RNTI or RAR grant LG Electronics Inc. discussion Rel-16 NR\_IIOT-Core

* [023] Not Pursued

[R2-2100714](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100714.zip) Consideration of an uplink grant for prioritization Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.3.0 1021 - F NR\_IIOT-Core

* [023] Not Pursued

User Plane II

* [AT113-e][024][IIOT] User Plane II (Asus)

Scope: Treat [R2-210071](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100715.zip)3, [R2-2100854](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100854.zip), [R2-2101529](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101529.zip), [R2-2101530](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101530.zip), [R2-2101744](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101744.zip), [R2-2101745](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101745.zip), [R2-2101746](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101746.zip), [R2-2101670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101670.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A

[R2-2102318](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102318.zip) Phase-1 Summary of [AT113-e][024][IIOT] User Plane II (Asus) Asus

* Noted, agreements and discussion below under respective paper.

[R2-2100713](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100713.zip) Clarification of conditions for autonomous transmission Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.3.0 1020 - F NR\_IIOT-Core

* not pursued.

[R2-2100854](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100854.zip) Clarification on HARQ process ID configuration Apple discussion Rel-16 NR\_IIOT-Core

- [Rap] Agree with the first two proposals in [R2-2100854](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100854.zip) as shown below, but no changes is needed for the specification (The network should ensure not to provide problematic configurations):

DISCUSSION

- Apple think it would be better to capture this understanding in the TS as developers doesn’t read minutes. Could capture in RRC

- MTK agree with the two proposals and agree that we can capture something in RRC.

- Ericsson think this restriction isn’t needed as ithe opposite means that the network configure more than UE caps. If we start this way we may need many updates.

- ZTE think we don’t need to capture, it is obvious. Huawei agree. Nokia agrees as well.

* Confirm that Configuration of *nrofHARQ-Processes,* *harq-ProcID-Offset2-r16* ensures that the HARQ Process ID is less than the respective maximum number of HARQ processes.
* Similar consideration applies for NR-U and DL SPS when *harq-ProcID-Offset* is configured.
* These are considered a UE cap limitation this we don’t need to capture anything in the TS.

[R2-2101529](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101529.zip) CR on the configuredGrantTimer for deprioritized UL grant ZTE Corporation, Sanechips CR Rel-16 38.321 16.3.0 1043 - F NR\_IIOT-Core

* Second change is agreeable, revised (agree by email)

[R2-2102287](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102287.zip) CR on the configuredGrantTimer for deprioritized UL grant ZTE Corporation, Sanechips CR Rel-16 38.321 16.3.0 1043 1 F NR\_IIOT-Core

* [024] Agreed

[R2-2101530](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101530.zip) Discussion on timer control when configured grant transmission is canceled ZTE Corporation, OPPO discussion Rel-16 NR\_IIOT-Core

DISCUSSION

- Email Rap explains that there is two options a) timer started at the first symbol, or b) timer starts at the end of transmission

- CATT think there is no ambiguity. The condition for NR-U is that there is a transmission and there is no LBT failure, so this is checked in the beginning of the transmission for both timers. LG agrees with CATT and there is no reason to not (re)start if the transmission fails as there should be a reattempt.

- ZTE think the CG timer is stopped, with similar wording, so the TS is not clear, a clarification is needed.

- Oppo think option a) shall be applied, and think that it is sufficient to capture this in chair notes.

- Ericsson agrees that a) is the correct interpretation. Should be a common understanding.

- Nokia wonder if gNB and UE may have different view of these timers if they are (re)started at beginning of transmission.

- BWP inactivity timers does not apply in this discussion as the trigger there is PDCCH and not an UL transmission. CATT agrees.

- Xiaomi think For CG it applies to bwp-InactTimer

- Chair: the following seems almost agreeable: Intended behaviour is that the bwp-InactivityTimer and sCellDeactivationTimer are (re)started in the beginning of a transmission, but still need to discuss to what extent it actually applies to BWP timer and whether the potential issue that network and UE has different view need to be addressed.

* Continue by email
* [024] Proposals in [R2-2101530](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101530.zip) are not pursued. Can come back next meeting if there’s more support to have a CR to specify timer behaviour. Other timers may also be considered.
* [024] Confirm that the UE (re)starts the bwp-InactivityTimer and sCellDeactivationTimer at the beginning of the first symbol of the PUSCH transmission (only captured in chairman notes)

[R2-2101744](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101744.zip) Configured grant timer handling upon PUSCH cancellation for bundle case ASUSTeK CR Rel-16 38.321 16.3.0 1047 - F NR\_IIOT-Core

* how to handle CGT in the case of autonomous transmission and bundling is postponed

[R2-2101745](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101745.zip) MAC Corrections for NR IIOT CG confirmation ASUSTeK CR Rel-16 38.321 16.3.0 1048 - F NR\_IIOT-Core

* not pursued

[R2-2101746](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101746.zip) MAC Corrections for NR IIOT intra-UE prioritization ASUSTeK CR Rel-16 38.321 16.3.0 1049 - F NR\_IIOT-Core

* not pursued

### 6.5.4 PDCP Corrections

[R2-2101670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101670.zip) Corrections on the EHC reset Beijing Xiaomi Mobile Software CR Rel-16 38.323 16.2.0 0065 - F NR\_IIOT-Core

* not pursued

Withdrawn

R2-2100220 The impact of drb-ContinueEHC-DL/UL configuration on PDCP specification CATT CR Rel-16 38.323 16.2.0 0062 - F NR\_IIOT-Core Withdrawn

## 6.6 NR Positioning Support

(NR\_pos-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Jun 20; WID: RP-200218).

(NR TEI16 Positioning)

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

Tdoc Limitation: 9 tdocs, See also tdoc limitation for Agenda Item 6

### 6.6.1 General and Stage 2 corrections

Including incoming LSs, Including impact to 36.305 and 38.305. Stage 2 corrections shall be discussed with the specification rapporteur (Sven Fischer sfischer@qti.qualcomm.com) before submission.

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2100044](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100044.zip) LS on Rel-16 NR Positioning Correction (R3-207220; contact: Huawei) RAN3 LS in Rel-16 NR\_pos-Core To:RAN2, RAN1

[R2-2100402](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100402.zip) Miscellaneous corrections in TS38.305 CATT CR Rel-16 38.305 16.3.0 0059 - F NR\_pos-Core

[R2-2101383](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101383.zip) Activation Time for Periodic UL SRS Transmission Ericsson discussion Rel-16

[R2-2101385](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101385.zip) UE handling of Positioning Frequency Layer Ericsson CR Rel-16 38.305 16.3.0 0060 - F NR\_pos-Core

[R2-2101829](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101829.zip) Correction on the description for gNB measurements Huawei, HiSilicon, Qualcomm Incorporated CR Rel-16 38.305 16.3.0 0065 - F NR\_pos-Core

[R2-2101830](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101830.zip) [Draft] Reply LS on Rel-16 NR Positioning Correction Huawei, HiSilicon LS out Rel-16 NR\_pos-Core To:RAN3 Cc:RAN1

### 6.6.2 RRC corrections

Including impact to 36.331, 38.331, and 38.306.

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2100151](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100151.zip) Corrections to acquisition of positioning SIBs Samsung Electronics Co., Ltd, Ericsson CR Rel-16 38.331 16.3.1 2034 1 F NR\_pos-Core R2-2009102

[R2-2100403](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100403.zip) Corrections on posSIB validity CATT,Ericsson, Intel Corporation, MediaTek Inc CR Rel-16 38.331 16.3.0 2322 - F NR\_pos-Core

R2-2100404 Correction on Positioning SRS Resource CATT CR Rel-16 38.331 16.3.0 2323 - F NR\_pos-Core Withdrawn

[R2-2101386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101386.zip) Usage of ExpirationTime and ValueTag Ericsson discussion Rel-16

[R2-2101832](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101832.zip) Summary for POS RRC AI 6.6.2 Huawei, HiSilicon discussion Rel-16 NR\_pos-Core Late

[R2-2101899](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101899.zip) Correction on SI window calculation for PosSIB Samsung R&D Institute UK CR Rel-16 38.331 16.3.1 2449 - F NR\_pos-Core

### 6.6.3 LPP corrections

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2100405](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100405.zip) Correction on NR-Multi-RTT-RequestAssistanceData CATT CR Rel-16 37.355 16.3.0 0283 - F NR\_pos-Core

[R2-2100406](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100406.zip) Corrections on the field description of commonIEsProvideAssistanceData in TS37.355 CATT CR Rel-16 37.355 16.3.0 0284 - F NR\_pos-Core

[R2-2101382](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101382.zip) Correction of A-GNSS Periodical retrival of Assistance Data Ericsson CR Rel-16 37.355 16.3.0 0287 - F NR\_pos-Core

[R2-2101384](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101384.zip) LPP Layer interaction with lower layers for Positioning Frequency layer and Measurement Gap Ericsson CR Rel-16 37.355 16.3.0 0288 - F NR\_pos-Core

R2-2101826 Disucussion on the need for fields in the uplink LPP message Huawei, HiSilicon CR Rel-16 37.355 16.3.0 0291 - F NR\_pos-Core Withdrawn

[R2-2101827](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101827.zip) Correction to the need code for downlink LPP message Huawei, HiSilicon CR Rel-16 37.355 16.3.0 0292 - F NR\_pos-Core

[R2-2101828](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101828.zip) Discussions on PRS configurations Huawei, HiSilicon CR Rel-16 37.355 16.3.0 0293 - F NR\_pos-Core

[R2-2101858](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101858.zip) Disucussion on the need for fields in the uplink LPP message Huawei, HiSilicon discussion Rel-16

[R2-2101889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101889.zip) Summary of agenda item 6.6.3 - LPP Corrections Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_pos-Core Late

### 6.6.4 MAC corrections

## 6.7 NR mobility enhancements

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed June 20; WID: RP-192277).

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.

No documents should be submitted to 6.7. Please submit to 6.7.x

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

NR DAPS corrections should be submitted to 7.4.2.

Tdoc Limitation: See tdoc limitation for Agenda Item 6

### 6.7.1 General and Stage-2 Corrections

Including incoming LSs (if any).

Including corrections to TS38.300 and 37.340 related to the NR CPC, NR CHO and NR DAPS

[R2-2100027](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100027.zip) LS on support of NUL and SUL during DAPS handovery (R1-2009682; contact: ZTE) RAN1 LS in Rel-16 NR\_Mob\_enh-Core To:RAN2 Cc:RAN4

[R2-2101519](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101519.zip) Addition of releasing the source part of DAPS DRBS upon DAPS release LG Electronics France CR Rel-16 38.300 16.4.0 0340 - F NR\_Mob\_enh-Core

### 6.7.2 Conditional PSCell change for intra-SN and Conditional handover related corrections

This AI addresses NR CPC and corrections to NR/LTE CHO (i.e. both NR and LTE-specific corrections for CHO should be submitted here).

Including corrections to control and user plane specifications (e.g. 3x.331, 3x.323, 3x.321) for CPC and CHO.

Including outcome of [Post112-e][254][R16 MOB] Issue on failure handling of handover without key change for the UE configured with attemptCondReconfig (Sharp)

Including discussion on repetition of UE information transmission in NR/LTE CHO (postponed in RAN2#112e, see R2-2010253, R2-2010251, R2-2010254, R2-2010252)

Including discussion on UE compliance check failure for CHO command (postponed in RAN2#112e, see R2-2009998)

Including discussion on SI reading during CHO recovery (postponed in RAN2#112e, see R2-2010189)

Including discussion on whether CHO is supported for eLTE.

[R2-2100526](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100526.zip) Transmitting SL UE Information after CHO Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2331 - F NR\_Mob\_enh-Core

[R2-2100585](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100585.zip) Clarification regarding CHO following IRAT HO failure Samsung Telecommunications CR Rel-16 38.331 16.3.1 2339 - F NR\_Mob\_enh-Core

[R2-2100680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100680.zip) UE information transmission in NR CHO case SHARP Corporation, Ericsson discussion NR\_Mob\_enh-Core R2-2010253

[R2-2100681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100681.zip) UE information transmission in LTE CHO case SHARP Corporation, Ericsson discussion Rel-16 NR\_Mob\_enh-Core R2-2010251

[R2-2101263](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101263.zip) Conditional handover for LTE-5GC Ericsson discussion NR\_Mob\_enh-Core

[R2-2101264](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101264.zip) Missing release of VarConditionalReconfiguration Ericsson CR Rel-16 36.331 16.3.0 4571 - F NR\_Mob\_enh-Core

[R2-2101265](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101265.zip) Inability to comply with conditional reconfiguration Ericsson CR Rel-16 38.331 16.3.1 2392 - F NR\_Mob\_enh-Core

[R2-2101266](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101266.zip) Addition of conditional reconfiguration in measurement configuration description Ericsson CR Rel-16 38.331 16.3.1 2393 - F NR\_Mob\_enh-Core

[R2-2101362](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101362.zip) Correction on NR Mobility Enhancement Apple CR Rel-16 38.331 16.3.1 2406 - F NR\_Mob\_enh-Core

[R2-2101363](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101363.zip) Correction on LTE Mobility Enhancement Apple CR Rel-16 36.331 16.3.0 4573 - F NR\_Mob\_enh-Core

[R2-2101691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101691.zip) Discussion on some issues for CHO and CPC Huawei, HiSilicon, China Telecom discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2101900](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101900.zip) Report of [Post112-e][254][R16 MOB] Issue on failure handling of handover without key change for the UE configured with attemptCondReconfig (Sharp) SHARP Corporation discussion Rel-16 NR\_Mob\_enh-Core Late

[R2-2101901](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101901.zip) [Post112-e][254][R16 MOB] Clarification of behavior to avoid security risk in CHO based recovery after handover without key change failure SHARP Corporation CR Rel-16 38.331 16.3.1 2450 - A NR\_Mob\_enh-Core Late

[R2-2101361](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101361.zip) Clarification on SUL during DAPS HO Apple discussion Rel-16 NR\_Mob\_enh-Core

*(moved from 6.7.1)*

### 6.7.3 UE capability corrections

Including UE capability aspects of NR mobility WI (i.e. UE capability corrections to 38.331 and 38.306).

Including corrections based on outcome of "[AT1112e][ 215][NR][MOB] Additional clarification to DAPS capabilities (Nokia)" that were postponed in RAN2#112e (e.g. dummification of field intraFreqMultiUL-TransmissionDAPS from intraFreqDAPS-UL)

[R2-2100486](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100486.zip) Inter-node signalling for UE capability coordination in DAPS handover Ericsson discussion Rel-16 TEI16

[R2-2101025](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101025.zip) Dummifying the field intraFreqMultiUL-TransmissionDAPS Nokia, Nokia Shanghai Bell, MediaTek, Intel Corporation CR Rel-16 38.331 16.3.1 2379 - F NR\_Mob\_enh-Core

[R2-2101026](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101026.zip) Dummifying the field intraFreqMultiUL-TransmissionDAPS Nokia, Nokia Shanghai Bell, MediaTek, Intel Corporation CR Rel-16 38.306 16.3.0 0501 - F NR\_Mob\_enh-Core

[R2-2101027](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101027.zip) Dummifying the field intraFreqMultiUL-TransmissionDAPS Nokia, Nokia Shanghai Bell, MediaTek, Intel Corporation CR Rel-16 36.331 16.3.0 4562 - F LTE\_feMob-Core

[R2-2101028](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101028.zip) Dummifying the field intraFreqMultiUL-TransmissionDAPS Nokia, Nokia Shanghai Bell, MediaTek, Intel Corporation CR Rel-16 36.306 16.3.0 1803 - F LTE\_feMob-Core

[R2-2101360](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101360.zip) Clarification on DAPS HO Capability Apple discussion Rel-16 NR\_Mob\_enh-Core

[R2-2101710](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101710.zip) Understanding of DAPS in BWC-A band Huawei, HiSilicon discussion Rel-16 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)

No documents should be submitted to 6.8. Please submit to 6.8.x

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

Tdoc Limitation: 9 tdocs, See also tdoc limitation for Agenda Item 6

### 6.8.1 General and Stage-2 Corrections

Including incoming LSs.

Including corrections to TS38.300, 36.300 and 37.340 related to DCCA.

[R2-2100021](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100021.zip) LS on HARQ-ACK codebook configuration for secondary PUCCH group (R1-2009631; contact: Nokia) RAN1 LS in Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN2

[R2-2100058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100058.zip) LS on TCI state indication at Direct SCell activation (R4-2017329; contact: MediaTek) RAN4 LS in Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN2, RAN1

[R2-2100059](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100059.zip) LS on RAN4 agreements for MR-DC Idle mode CA measurements (R4-2017390; contact: ZTE) RAN4 LS in Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN2

[R2-2100062](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100062.zip) LS response on cell-grouping UE capability for synchronous NR-DC (R4-2017847; contct: Apple) RAN4 LS in Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN2 Cc:RAN1

[R2-2101088](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101088.zip) Misc corrections for Rel-16 DCCA Ericsson CR Rel-16 38.331 16.3.1 2385 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101089](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101089.zip) Misc corrections for Rel-16 DCCA Ericsson CR Rel-16 36.331 16.3.0 4568 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101400](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101400.zip) CR on support of NR-DC within the same gNB-DU ZTE Corporation, Sanechips CR Rel-16 37.340 16.4.0 0246 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101479](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101479.zip) Corrections on UL power sharing Huawei, HiSilicon, ZTE Corporation (rapporteur) CR Rel-16 37.340 16.4.0 0248 - F NR\_newRAT-Core, LTE\_NR\_DC\_CA\_enh-Core

[R2-2101728](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101728.zip) Corrections on UL power sharing vivo CR Rel-16 37.340 16.4.0 0250 - F LTE\_NR\_DC\_CA\_enh-Core

### 6.8.2 Corrections to Fast Scell activation and Early measurement reporting

Including corrections to TS38.331, 36.331 and 38.321 related to Fast SCell activation and Early measurement reporting.

[R2-2100121](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100121.zip) Correction for TCI state indication of direct SCell activation Qualcomm Incorporated CR Rel-16 38.331 16.3.1 2304 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100127](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100127.zip) Discussion on serving cell early measurement reporting Qualcomm Incorporated discussion Rel-16 FS\_NR\_SL\_relay

[R2-2100303](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100303.zip) Corrections on condition of idle-inactive measurement configuration update OPPO CR Rel-16 38.331 16.3.1 2318 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100304](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100304.zip) Clarification on carrier frequency in MeasIdleConfigSIB OPPO CR Rel-16 38.331 16.3.1 2319 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100305](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100305.zip) Clarification on UE behaviour due to entering dormant BWP OPPO CR Rel-16 38.321 16.3.0 1011 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2100377 Discussion on serving cell early measurement reporting Qualcomm Incorporated discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core Withdrawn

[R2-2100563](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100563.zip) Discussion on early measurement requirements ZTE Corporation, Sanechips discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2100564](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100564.zip) CR to introduce new T331 timer value ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2338 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100565](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100565.zip) CR to introduce new capability for T331 timer value ZTE Corporation, Sanechips CR Rel-16 38.306 16.3.0 0493 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100566](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100566.zip) Reply LS on MR-DC Idle mode CA measurements ZTE Corporation, Sanechips LS out Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN4

[R2-2100567](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100567.zip) Discussion on serving cell reporting for early measurement ZTE Corporation, Sanechips discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101017](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101017.zip) Correction on first active uplink BWP vivo CR Rel-16 38.331 16.3.1 2375 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101073](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101073.zip) CR on serving cell reporting Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2382 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101074](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101074.zip) CR on T331 value range Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2383 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101090](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101090.zip) Serving cell reporting in early measurements Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101500](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101500.zip) Correction on BWP operation Samsung CR Rel-16 38.321 16.3.0 1036 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101692.zip) Clarification on beam measurement and reporting based on broadcasted EMR configuration Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101693.zip) Clarification on deriving and reporting cell level and beam level serving cell results Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101695.zip) Discussion on TCI state indication at direct SCell activation Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101729](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101729.zip) TCI state activation at Direct SCell activation vivo discussion LTE\_NR\_DC\_CA\_enh-Core

[R2-2101747](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101747.zip) Correction on tci-PresentInDCI ASUSTeK CR Rel-16 38.331 16.3.1 2436 - F LTE\_NR\_DC\_CA\_enh-Core Revised

[R2-2101851](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101851.zip) TCI state indication for Direct SCell activation MediaTek Inc. discussion

[R2-2101853](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101853.zip) TCI state for direct SCell activation MediaTek Inc. CR Rel-16 38.331 16.3.1 2446 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101942](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101942.zip) Correction on tci-PresentInDCI ASUSTeK CR Rel-16 38.331 16.3.1 2436 1 F LTE\_NR\_DC\_CA\_enh-Core [R2-2101747](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101747.zip)

### 6.8.3 Other DCCA corrections

Including UE capability corrections, NR-NR DC, MCG SCell and SCG configuration with RRC resume, Fast MCG link recovery, and corrections that don’t fit under the other headings.

Including outcome of [Post112-e][255][R16 DCCA] Cell grouping for synchronous NR-DC (Ericsson)

[R2-2100093](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100093.zip) Correction on the Handling of Reconfiguration within RRC Resume CATT CR Rel-16 38.331 16.3.1 2298 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100094](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100094.zip) Correction on the Handling of Reconfiguration within RRC Resume CATT CR Rel-16 36.331 16.3.0 4542 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100095](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100095.zip) Clarification on HARQ-ACK codebook for secondary PUCCH group CATT CR Rel-16 38.331 16.3.1 2299 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100096](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100096.zip) Clarification on Fast MCG Link Recovery CATT CR Rel-16 36.331 16.3.0 4543 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100097](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100097.zip) Clarification on Fast MCG Link Recovery CATT CR Rel-16 38.331 16.3.1 2300 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2100438](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100438.zip) T316 handling when rlf-TimersAndConstantsMCG-Failure is received Samsung, ZTE Corporation, Sanechips CR Rel-16 36.331 16.3.0 4550 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101016](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101016.zip) Correction on FR2 NR-DC power control parameter vivo CR Rel-16 38.331 16.3.1 2374 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101018](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101018.zip) Correction on the submission of RRCReconfigurationComplete vivo CR Rel-16 38.331 16.3.1 2376 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101075](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101075.zip) TCI state indication at direct scell activation Nokia, Nokia Shanghai Bell discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101076](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101076.zip) CR on HARQ-ACK codebook configuration for secondary PUCCH group Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2384 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101091.zip) Cell grouping for asynchronous NR-DC Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101092.zip) Correction on p-UE-FR2 and p-NR-FR2 for NR-DC power control Ericsson CR Rel-16 38.331 16.3.1 2386 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101093](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101093.zip) Summary of [Post112-e][255][R16 DCCA] Cell grouping for synchronous NR-DC Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101570](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101570.zip) Clarification on sCellState configuration upon SCell modification ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2422 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2101694](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101694.zip) NR-DC cell grouping for async and sync NR-DC Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101799](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101799.zip) Discussion on cell group capability MediaTek Inc. discussion LTE\_NR\_DC\_CA\_enh-Core

## 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).

Tdoc Limitation: 4 tdocs. See also tdoc limitation for Agenda Item 6

### 6.9.1 General and Stage-2 corrections

Including incoming LSs, rapporteur inputs, etc

### 6.9.2 User plane Corrections

### 6.9.3 Control plane Corrections

[R2-2100456](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100456.zip) CR on 38.331 for power saving vivo CR Rel-16 38.331 16.3.1 2325 - 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).

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

Tdoc Limitation: 9 tdocs. See also tdoc limitation for Agenda Item 6

### 6.10.1 General and stage-2 corrections

Including incoming LSs, TS 37.320 corrections

[R2-2100037](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100037.zip) Reply LS on QoS Monitoring for URLLC (R3-207177; contact: Ericsson) RAN3 LS in Rel-16 NR\_SON\_MDT-Core To:SA2, SA5 Cc:RAN2

[R2-2100045](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100045.zip) LS to SA5 on MDT Stage 2 and Stage 3 alignment (R3-207222; contact: Ericsson) RAN3 LS in Rel-16 To:SA5, RAN2 Cc:SA2

[R2-2100077](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100077.zip) LS Reply on QoS Monitoring for URLLC (S5-204537; contact: Intel) SA5 LS in Rel-16 To:RAN3, SA2 Cc:RAN2

[R2-2100078](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100078.zip) Reply LS on the user consent for trace reporting (S5-204542; contact: Huawei) SA5 LS in Rel-16 NR\_SON\_MDT-Core To:RAN2, RAN3, SA3

[R2-2100692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100692.zip) Correction on the configuration effectiveness of Logged MDT vivo CR Rel-16 37.320 16.3.0 0099 - F NR\_SON\_MDT-Core

[R2-2100693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100693.zip) Miscellaneous corrections to TS 37.320 vivo CR Rel-16 37.320 16.3.0 0100 - F NR\_SON\_MDT-Core

[R2-2101416](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101416.zip) On clarifications in stage-2 description Ericsson CR Rel-16 37.320 16.3.0 0101 - F NR\_SON\_MDT-Core

[R2-2101426](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101426.zip) [Draft] Reply LS on MDT Stage 2 and Stage 3 alignment Ericsson LS out Rel-16 NR\_SON\_MDT-Core To:RAN3 Cc:SA5

[R2-2101592](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101592.zip) Correction on time stamp for event triggered logged MDT ZTE Corporation, Sanechips CR Rel-16 37.320 16.3.0 0102 - B NR\_SON\_MDT-Core

[R2-2101651](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101651.zip) Clarification on Average UE throughout measurement Samsung discussion NR\_SON\_MDT-Core

### 6.10.2 TS 38.314 corrections

[R2-2100694](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100694.zip) Miscellaneous corrections to TS 38.314 vivo CR Rel-16 38.314 16.2.0 0013 - F NR\_SON\_MDT-Core

R2-2101638 Summary for AI 6.10.2 TS 38.314 corrections CMCC discussion Rel-16 NR\_SON\_MDT-Core Late

### 6.10.3 RRC corrections

[R2-2100088](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100088.zip) Miscellaneous Corrections on WLAN and BT for MDT in 36.331 CATT CR Rel-15 36.331 15.12.0 4540 - F LTE\_MDT\_BT\_WLAN-Core

[R2-2100089](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100089.zip) Miscellaneous Corrections on WLAN and BT for MDT in 36.331 CATT CR Rel-16 36.331 16.3.0 4541 - A LTE\_MDT\_BT\_WLAN-Core

[R2-2100184](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100184.zip) Corrections on mobility from NR failure for inter-RAT MRO EUTRA Samsung Electronics Co., Ltd CR Rel-16 38.331 16.3.1 2307 - F NR\_SON\_MDT-Core

[R2-2100185](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100185.zip) Corrections on Mobility History Information in 38.331 CATT CR Rel-16 38.331 16.3.1 2308 - F NR\_SON\_MDT-Core

[R2-2100186](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100186.zip) Miscellaneous Corrections for SON and MDT in 36.331 CATT CR Rel-16 36.331 16.3.0 4545 - F NR\_SON\_MDT-Core

[R2-2100187](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100187.zip) Corrections on the Release of CEF/RLF/RA Report in 38.331 CATT CR Rel-16 38.331 16.3.1 2309 - F NR\_SON\_MDT-Core

[R2-2100188](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100188.zip) Miscellaneous Corrections for SON and MDT in 38.331 CATT CR Rel-16 38.331 16.3.1 2310 - F NR\_SON\_MDT-Core

[R2-2100189](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100189.zip) Correction on RLF Report for Re-connection CATT CR Rel-16 36.331 16.3.0 4546 - F NR\_SON\_MDT-Core

[R2-2100190](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100190.zip) Correction on RLF Report for Re-connection CATT CR Rel-16 38.331 16.3.1 2311 - F NR\_SON\_MDT-Core

[R2-2100197](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100197.zip) Correction on periodical logging in any cell selection state Samsung Electronics Co., Ltd CR Rel-16 38.331 16.3.1 2312 - F NR\_SON\_MDT-Core

[R2-2100198](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100198.zip) Corrections on RLF report content determination for inter-RAT HO failure Samsung Electronics Co., Ltd CR Rel-16 38.331 16.3.1 2313 - F NR\_SON\_MDT-Core

[R2-2100199](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100199.zip) Miscellaneous corrections on inter-RAT MRO Samsung Electronics Co., Ltd CR Rel-16 36.331 16.3.0 4547 - F NR\_SON\_MDT-Core

[R2-2100427](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100427.zip) Correction on RLF Report Content Handover from NR to LTE Failure MediaTek Inc. CR Rel-16 38.331 16.3.1 2324 - F NR\_SON\_MDT

[R2-2100448](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100448.zip) Misalignment of LTE and NR on neighbour cell measurements logging in any cell selection state Samsung Electronics Co., Ltd discussion Rel-16 NR\_SON\_MDT-Core

[R2-2100583](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100583.zip) Clarification on logged MDT for IRAT and non-SIB4 frequencies Samsung Telecommunications, Ericsson CR Rel-16 38.331 16.3.1 1805 2 F NR\_SON\_MDT-Core R2-2010083

[R2-2100584](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100584.zip) Correction on reporting of NR cells for CEF, RLF and logMDT Samsung Telecommunications, Ericsson CR Rel-16 36.331 16.3.0 4552 - F NR\_SON\_MDT-Core

[R2-2100607](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100607.zip) Logged MDT Info extension Nokia, Nokia Shanghai Bell, Ericsson discussion Rel-16 NR\_SON\_MDT-Core

[R2-2100608](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100608.zip) Logged MDT Info extendibility (Solution 1) Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2341 - F NR\_SON\_MDT-Core

[R2-2100609](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100609.zip) Logged MDT Info extendibility (Solution 3) Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2342 - F NR\_SON\_MDT-Core

[R2-2100610](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100610.zip) Logged MDT Info extendibility (Solution 4) Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2343 - F NR\_SON\_MDT-Core

[R2-2100695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100695.zip) Miscellaneous corrections to TS 38.331 on SON and MDT vivo CR Rel-16 38.331 16.3.1 2347 - F NR\_SON\_MDT-Core

[R2-2100696](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100696.zip) Correction to TS 38.331 on logged MDT configuration vivo CR Rel-16 38.331 16.3.1 2348 - F NR\_SON\_MDT-Core

[R2-2100858](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100858.zip) Corrections on RLF Report Apple CR Rel-16 38.331 16.3.1 2358 - F NR\_SON\_MDT-Core

[R2-2100859](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100859.zip) Corrections on RLF Report Apple CR Rel-16 36.331 16.3.0 4553 - F NR\_SON\_MDT-Core

[R2-2100860](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100860.zip) Correction on UE check of NW configuration of obtaining location information Apple, Qualcomm CR Rel-16 38.331 16.3.1 2359 - F NR\_SON\_MDT-Core

[R2-2100873](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100873.zip) Cleanup on miscellaneous issues in SON/MDT Apple CR Rel-16 38.331 16.3.1 2362 - F NR\_SON\_MDT-Core

[R2-2100874](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100874.zip) Correction on neighbor cell measurement results report in SON/MDT Apple CR Rel-16 36.331 16.3.0 4554 - F NR\_SON\_MDT-Core

[R2-2101099](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101099.zip) Correction to MDT Google Inc. CR Rel-16 38.331 16.3.1 2141 1 F NR\_SON\_MDT-Core R2-2009882

[R2-2101419](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101419.zip) On open issues of RA report, MHI and logged MDT Ericsson CR Rel-16 38.331 16.3.1 2409 - F NR\_SON\_MDT-Core

[R2-2101420](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101420.zip) ON RA Report extension possibilities Ericsson, Nokia, Nokia Shanghai Bell discussion

[R2-2101421](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101421.zip) On the lack measResultServingCell availability in Any Cell Selection state Ericsson discussion

[R2-2101425](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101425.zip) On WLAN-BT-sensor configration related Ericsson CR Rel-16 38.331 16.3.1 2412 - F NR\_SON\_MDT-Core

[R2-2101688](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101688.zip) Corrections on NR MDT and SON (Rapporteur CR) Huawei CR Rel-16 38.331 16.3.1 2429 - F NR\_SON\_MDT-Core

[R2-2101689](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101689.zip) Corrections on NR MDT and SON (Rapporteur CR) Huawei CR Rel-16 36.331 16.3.0 4589 - F NR\_SON\_MDT-Core

[R2-2101690](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101690.zip) Discussion on location issues for MDT and SON Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2101714](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101714.zip) Correction to logged MDT configuration in full configuration Google Inc. CR Rel-16 36.331 16.3.0 4590 - F LTE\_5GCN\_connect-Core, NR\_SON\_MDT-Core

[R2-2101722](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101722.zip) Discussion on some issues for MDT and SON Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2101846](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101846.zip) Corrections for RLF Report OPPO CR Rel-16 38.331 16.3.1 2442 - F NR\_SON\_MDT-Core

[R2-2101847](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101847.zip) Corrections for SON&MDT Logging Capability OPPO CR Rel-16 38.331 16.3.1 2443 - F NR\_SON\_MDT-Core

[R2-2101848](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101848.zip) Miscellaneous Corrections for SON&MDT OPPO CR Rel-16 38.331 16.3.1 2444 - F NR\_SON\_MDT-Core

[R2-2101938](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101938.zip) Corrections for Cross-RAT RLF Report OPPO CR Rel-16 38.331 16.3.1 2454 - F NR\_SON\_MDT-Core

[R2-2101939](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101939.zip) Corrections for Sensor OPPO CR Rel-16 38.331 16.3.1 2455 - F NR\_SON\_MDT-Core

[R2-2101943](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101943.zip) Clarification on location configuration in MDT ZTE Corporation, Sanechips discussion Rel-16

## 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).

Tdoc Limitation: 4 tdocs, See also tdoc limitation for Agenda Item 6

### 6.11.1 General and Stage-2 Corrections

[R2-2101813](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101813.zip) Correction on the allowed uplink transmission without TA Huawei, HiSilicon, Nokia (Rapporteur) CR Rel-16 38.300 16.4.0 0343 - F NR\_2step\_RACH-Core

### 6.11.2 User plane corrections

[R2-2100349](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100349.zip) Correction on Usage of RA-RNTI in 2-step RA procedure vivo CR Rel-16 38.321 16.3.0 1015 - F NR\_2step\_RACH-Core

[R2-2100350](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100350.zip) Correction on UL-SCH resource in 2-step RA procedure vivo CR Rel-16 38.321 16.3.0 1016 - F NR\_2step\_RACH-Core

[R2-2101512](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101512.zip) 38321 CR Correction on available UL-SCH resource LG Electronics Inc. CR Rel-16 38.321 16.3.0 1037 - F NR\_2step\_RACH-Core

[R2-2101811](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101811.zip) Correction on BSR for two-step RA Huawei, HiSilicon CR Rel-16 38.321 16.3.0 0981 1 F NR\_2step\_RACH-Core R2-2010402

[R2-2101838](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101838.zip) Conditions to stop an ongoing RA procedure Asia Pacific Telecom, FGI CR Rel-16 38.321 16.3.0 1054 - F NR\_2step\_RACH-Core Withdrawn

[R2-2101857](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101857.zip) Conditions to stop an ongoing RA procedure Asia Pacific Telecom, FGI CR Rel-16 38.321 16.3.0 1055 - F NR\_2step\_RACH-Core

### 6.11.3 Control plane corrections

[R2-2101059](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101059.zip) Corrections to conditions for 2-step RA Lenovo, Motorola Mobility CR Rel-16 38.331 16.3.1 2381 - F NR\_2step\_RACH-Core

[R2-2101165](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101165.zip) Correction for 2-step CFRA ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2388 - F NR\_2step\_RACH-Core

[R2-2101812](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101812.zip) Correction on C-RNTI replacement for 2-step RA Huawei, HiSilicon CR Rel-16 38.331 16.3.1 2440 - F 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)

(RACS-RAN-Core, leading WG: RAN2; REL-16; started: Mar 19; completed: Jun 20; WID: RP-191088)

(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

Tdoc Limitation: See tdoc limitation for Agenda Item 6

Possibily including Summary of PRN papers (Nokia).

[R2-2100485](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100485.zip) UAC parameter selection for NPN Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2100560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100560.zip) Further discuss the usage of voiceFallbackIndication for Emergency Service Fallback ZTE Corporation, Sanechips discussion Rel-16 TEI16

[R2-2100561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100561.zip) CR to clarify the usage of voiceFallbackIndication for Emergency Services Fallback ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2048 1 F TEI16 R2-2009241

[R2-2100562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100562.zip) CR to introduce new capability for Emergency Services Fallback ZTE Corporation, Sanechips CR Rel-16 38.306 16.3.0 0492 - F TEI16

[R2-2101029](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101029.zip) Clarification on manufacturer based UE capability ID Nokia, Nokia Shanghai Bell CR Rel-16 36.300 16.4.0 1334 - F RACS-RAN-Core

[R2-2101030](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101030.zip) Clarification on manufacturer based UE capability ID Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.4.0 0336 - F RACS-RAN-Core

[R2-2101031](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101031.zip) Clarification on manufacturer based UE capability ID Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.1 2380 - F RACS-RAN-Core

[R2-2101557](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101557.zip) CR on the Parameters Selection ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.0 2420 - F NG\_RAN\_PRN-Core

[R2-2101654](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101654.zip) Correction on SIB validity check Google Inc. CR Rel-16 38.331 16.3.1 2425 - F NR\_newRAT-Core, NG\_RAN\_PRN-Core

[R2-2101704](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101704.zip) Discussion on intra-frequency reselection Huawei, HiSilicon discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2101715](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101715.zip) UAC parameter selection in case of UE allowed both on PLMN and CAG Qualcomm Incorporated CR Rel-16 38.331 16.3.1 2432 - F NG\_RAN\_PRN-Core

[R2-2101849](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101849.zip) Corrections for inter-RAT cell selection triggered by SNPN selection Asia Pacific Telecom, FGI CR Rel-16 36.304 16.3.0 0824 - F NG\_RAN\_PRN-Core

[R2-2101850](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101850.zip) Stop conditions of T320 & T325 in E-UTRA protocols Asia Pacific Telecom, FGI CR Rel-16 36.331 16.3.0 4594 - F NG\_RAN\_PRN-Core

[R2-2101852](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101852.zip) Stop conditions of T320 & T325 in NR protocols Asia Pacific Telecom, FGI CR Rel-16 38.331 16.3.1 2445 - F NG\_RAN\_PRN-Core

[R2-2101854](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101854.zip) Inter-RAT cell selection triggered by SNPN selection Asia Pacific Telecom, FGI discussion Rel-16

[R2-2101891](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101891.zip) Avoid UTRA capabilities forwarding in handover preparation Google Inc. CR Rel-16 38.331 16.3.1 2448 - F SRVCC\_NR\_to\_UMTS-Core

## 6.14 NR Other R1 WIs

(NR\_eMIMO-Core, leading WG: RAN1; REL-16; started: Jun 18; target; Aug 20; WID: RP-200474;)

(NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; Completed: Jun 20; WID: RP-191997;)

(NR\_L1enh\_URLLC-Core, leading WG: RAN1; REL-16; Completed: June 20; WID: RP-191584)

(R1 Led NR TEI16, Other R1 led items)

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

Tdoc Limitation: See tdoc limitation for Agenda Item 6

[R2-2100008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100008.zip) LS on TPMI grouping capability (R1-2009449; contact: vivo) RAN1 LS in Rel-16 NR\_eMIMO-Core To:RAN2

[R2-2100014](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100014.zip) Reply LS on full slot formats support in TDD UL-DL (R1-2009505; contact: Qualcomm) RAN1 LS in Rel-16 NR\_CLI\_RIM To:RAN3 Cc:RAN2

[R2-2100015](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100015.zip) LS on CBRA based Beam Failure Recovery (R1-2009519; contact: Apple) RAN1 LS in Rel-16 NR\_eMIMO-Core To:RAN2

[R2-2101856](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101856.zip) DRAFT LS Reply to RAN1 on CBRA based Beam Failure Recovery Apple LS out Rel-16 NR\_eMIMO-Core To:RAN1

### 6.14.1 User plane corrections

Possibily including Summary of eMIMO papers (Samsung).

[R2-2101364](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101364.zip) Capability and Configuration for SpCell BFR Apple discussion Rel-16 NR\_eMIMO-Core

[R2-2101365](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101365.zip) 38.306 CR on SpCell BFR Apple CR Rel-16 38.306 16.3.0 0506 - F NR\_eMIMO-Core

[R2-2101366](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101366.zip) RRC CR on SpCell BFR Apple CR Rel-16 38.331 16.3.1 2407 - F NR\_eMIMO-Core

[R2-2101367](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101367.zip) MAC CR on SpCell BFR Apple CR Rel-16 38.321 16.3.0 1030 - F NR\_eMIMO-Core

[R2-2101485](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101485.zip) Correction on PUCCH group for enhanced PUCCH Spatial Relation Huawei, HiSilicon CR Rel-16 38.321 16.3.0 1034 - F NR\_eMIMO-Core

### 6.14.2 Control plane corrections

[R2-2101486](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101486.zip) Correction on UE capabilities for enhanced MIMO Huawei, HiSilicon CR Rel-16 38.306 16.3.0 0513 - F NR\_eMIMO-Core

[R2-2101526](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101526.zip) Extension of the time domain allocation indicator for CG type 1 with typeB repetition ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.0 2416 - F NR\_L1enh\_URLLC-Core

[R2-2101527](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101527.zip) Correction on the UE capability of extension of TDRA indication for Configured UL Grant type 1 ZTE Corporation, Sanechips CR Rel-16 38.306 16.3.0 0514 - F NR\_L1enh\_URLLC-Core

## 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)

Tdoc Limitation: See tdoc limitation for Agenda Item 6

**LS IN**

[R2-2100007](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100007.zip) Reply LS on number of configurable CSI-RS resources per MO (R1-2009448; contact: Intel) RAN1 LS in Rel-16 NR\_CSIRS\_L3meas-Core To:RAN2, RAN4

[000] Proposed Noted Already taken into account

* [000] Noted

**DC Location Reporting**

* [AT113-e][026][R4 Other] DC location Reporting (Apple)

Scope: Continue progress, based on on-line discussion and [R2-2102227](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102227.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Prepare such that results can be available Feb 3 (for potential CB Feb 4).

CLOSED

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

Scope: CRs and LS out (to R4)

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

Deadline: Short (For RP)

[R2-2100052](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100052.zip) LS on DC location reporting f or intra-band UL CA (R4-2016817; contact: Nokia) RAN4 LS in Rel-16 NR\_RF\_FR1-Core To:RAN2 Cc:RAN1

* Noted

[R2-2100051](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100051.zip) LS on additional DC location reporting for intra-band UL CA (R4-2011722; contact: Qualcomm) RAN4 LS in Rel-16 NR\_RF\_FR1-Core To:RAN1, RAN2

* Noted

[R2-2102227](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102227.zip) Summary document for Tx DC Location Reporting in AI 6.15 Apple Inc. discussion Rel-16 NR\_RF\_FR1-Core

DISCUSSION ONLINE W1

P4

- Intel are not ready to agree this. We have no input from R4 indicating that this would be useful. Samsung are also not sure. R4 LS already indicate what is proposed in P4. MTK agrees that it is not clear how to use this and R4 has stated that they will continue work in R17. Intel anyway think that for activated CC we need dynamic signalling, so as we focus now on RRC, we should not go that way.

- Huawei wonder if this means that UE also need to report DC location for both configured and activated CC.

- Apple think the model can be that UE DC location may be based on Configured, or activated CC (a separate cap)

- Ericsson think P4 relates to previous agreement, how to extend

P5

- CATT think the Network providing BWP pairs is just to save overhead, so we don’t need to spend time on this.

- Samsung think this is a good principle for future proofness.

- Intel don’t have a strong view. R4 stated that all possible combinations need to be reported.

* The UE provides the Rel-16 RRC based Tx DC Location reporting as a response to a request from the NW using new Rel-16 RRC IE. Upto the NW on how Rel-15 and Rel-16 TX DC location requests are to be used (and combined)
* The Rel-16 RRC based Tx DC Location reporting can be requested by the network in RRCReconfiguration or in RRCResume (same cases as Rel-15)
* For Rel-16 RRC based signalling of Tx DC location reporting, RAN2 will focus on designing for the 2CC UL CA case with the intention that ASN.1 extension can be used for >2CC in the future.
* P4 could not be agreed
* Assume that Network providing BWP pairs is not needed when focus on 2CC (not completely off the table)

Chair: Continue by email.

[R2-2102308](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102308.zip)  Summary of [AT113-e][026][R4 Other] DC location Reporting (Apple)

[R2-2102430](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102430.zip)  Summary of [AT113-e][026][R4 Other] DC location Reporting (Apple)

DISCUSSION W2

P1

- Nokia indicate that the latter part is unclear without P7

P7

- Apple indicate that there are a few companies that support this.

- Nokia is mainly worried whether the signalled information is valid in both activated and deactivated state.

- Apple think that R4 refer to both activated and configured.

- Intel also support that this is reported.

- Huawei also think that both activated and deactivated case shall be taken into account.

- QC think the signalled info is per BWP and if the Scell is deactivated there is no active BWP so how to derive the DC location info.

- MTK think we limit to 2 CCs so we can reuse r15 signalling if Scell is deactivated but are ok to also have new signalling.

- Samsung also think it is good to report SCell configured but not activated.

- Nokia think indeed that the signalling covers case when Scell is activated but what happens when SCell is deactivated. QC agrees and support explicit signalling for deactivated state

- Apple think the UE signals all possible combinations.

- Huawei think we can use R15 signalling for the deactivated case, there is only the PCell. Nokia agrees.

- Apple think that whether a SCell is configured or not may impact the DC location.

- Intel also think R15 signalling is ok for the case when Scell is deactivated. However for the Dual PA case we decided to use R16 signalling could be goo dot have complete version in R16.

P8

- Apple indicate that there may be limited support. Apple supports this. Apple think the current signalling can easily support this.

- Nokia support this.

- QC think R4 hasn’t fully concluded e.g. whether edge CCs impact the DC location. Ericsson shares the concerns of QC, and think due to R4 indicating “activated CCs” the overhead is very big. Intel think that if we use current signalling we could at most indicate 3 CCs. Inter are negative to this. CATT also think this is not urgent.

- Huawei understanding on highest/lowest discussion has concluded in R4.

- Nokia think we don’t need to have artificial restrictions.

- Chair: we don’t do this in in R16

P9

- Rap indicate that this may not be needed.

* UE explicitly signals the two sets of {Serving Cell ID + BWP ID} for DC location info which also covers the cases where the SCell is deactivated.
* the case of ‘SCell configured but not activated’ is a valid case for explicit signalling.
* For the gNB to understand the DC location info, UE explicitly provides the serving cell (PCell or SCell) as reference point that is to be used by gNB for interpreting DC location info. The SCS is taken from the BWP of the provided serving cell.
* SUL is NOT considered in the design of Rel-16 DC location report signalling. Inform RAN4 about this.
* The maximum number of DC locations the UE can report using Rel-16 DC location signalling is 64.
* A new per-BC capability supporting the Rel-16 DC location reporting will be added and this addresses the RAN4 FG 7-5.
* The new release-16 single PA signalling framework can include dual PA signalling where the DC location for the second PA is reported along with Serving cell + BWP ID

[R2-2100342](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100342.zip) DC location reporting for intra-band UL CA Ericsson discussion Rel-16

[R2-2101910](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101910.zip) On the signalling for additional DC location reporting Huawei, HiSilicon discussion Rel-16 NR\_RF\_FR1-Core

[R2-2101463](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101463.zip) A practical RRC based DC location reporting solution Apple Inc discussion Rel-16 NR\_RF\_FR1-Core

[R2-2100090](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100090.zip) Discussions on DC location reporting for intra-band UL CA CATT discussion Rel-16

[R2-2100387](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100387.zip) DC location information reporting Intel Corporation discussion Rel-16 NR\_RF\_FR1-Core

[R2-2100411](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100411.zip) Discussion on support of additional DC location reporting for intra-band UL CA Samsung Electronics Co., Ltd discussion Rel-16 NR\_RF\_FR1-Core R2-2010979

[R2-2100480](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100480.zip) DC location reporting for intra-band UL CA Qualcomm Incorporated discussion Rel-16 NR\_RF\_FR1-Core

[R2-2100938](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100938.zip) Discussion on DC location reporting vivo discussion

[R2-2100955](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100955.zip) Signalling of UL CA DC location Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_RF\_FR1-Core

[R2-2101810](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101810.zip) DC location reporting MediaTek Inc. discussion

[R2-2101893](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101893.zip) Discussion on DC location report for intra-band UL CA ZTE corporation, Sanechips discussion Rel-16 NR\_RF\_FR1-Core

[R2-2101894](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101894.zip) draft CR on introduction of DC location reporting for intra-band UL CA ZTE corporation, Sanechips draftCR Rel-16 38.331 16.3.0 NR\_RF\_FR1-Core

* [026] All 12 tdocs above are Noted
* [AT113-e][027][R4 Other] Miscellaneous (China Telecom)

Scope: [R2-2100025](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100025.zip), [R2-2100029](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100029.zip)3, [R2-2101353](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101353.zip), [R2-2101528](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101528.zip)

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A

[R2-2102300](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102300.zip) Summary of [AT113-e][027][R4 Other] Miscellaneous (China Telecom)           China Telecom   discussion        Rel-16

* [027] Noted

Max date rate for uplink Tx switching

[R2-2100025](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100025.zip) LS on uplink Tx switching (R1-2009676; contact: China Telecom) RAN1   LS in    Rel-16  NR\_RF\_FR1    To:RAN2   Cc:RAN4

* [027] Noted

[R2-2100293](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100293.zip) CR for the supported max date rate for uplink Tx switching   China Telecommunication, huawei, HiSilicon   CR   Rel-16  38.306 16.3.0  0483    -           F   NR\_RF\_FR1-Core

* [027] Revised in [R2-2102301](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102301.zip)

[R2-2102301](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102301.zip) CR for the supported max date rate for uplink Tx switching   China Telecommunication, Huawei, HiSilicon, CATT    CR   Rel-16  38.306 16.3.0  0483    1          F   NR\_RF\_FR1-Core

* [027] Agreed

MPE

[R2-2101353](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101353.zip) Clarification on the MPE-prohibit timer    Apple, Nokia, Nokia Shanghai Bell       CR       Rel-16  38.321 16.3.0   1029    -           F          NR\_RF\_FR2\_req\_enh

* [027] Merged into [R2-2102302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102302.zip)

[R2-2101528](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101528.zip) Correction to 38.321 on MPE P-MPR Report      ZTE Corporation, Sanechips  CR       Rel-16  38.321 16.3.0   1042    -           F          NR\_RF\_FR2\_req\_enh

* [027] Merged into [R2-2102302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102302.zip)

[R2-2102302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102302.zip) Correction to 38.321 on MPE P-MPR Report      China Telecom, ZTE Corporation, Sanechips, Apple, Nokia, Nokia Shanghai Bell     CR       Rel-16  38.321 16.3.0  1057    -   F          NR\_RF\_FR2\_req\_enh

* [027] Agreed

## 6.16 NR Other

(R2 led NR TEI16, LSs from CT/SA requesting RAN2 action).

Tdoc Limitation: See tdoc limitation for Agenda Item 6

Including outcomes of [Post112-e][062][NR16] RAN2 Feature List for TR (Intel) and [Post112-e][067][NR TEI16] UE indication when it no longer experiences overheating (Ericsson)

LS in

[R2-2100080](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100080.zip) Reply LS on energy efficiency (S5-205357; contact: Orange) SA5 LS in Rel-16 To:RAN3 Cc:RAN2, SA

[000] Chairman: Propose Noted

* [000] Noted

TEI16 Corrections

* [AT113-e][028][TEI16] Miscellaneous I (Apple)

Scope: [R2-2101434](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101434.zip), [R2-2101346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101346.zip), [R2-2101170](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101170.zip), [R2-2101656](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101656.zip), [R2-2100872](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100872.zip), [R2-2101356](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101356.zip), [R2-2101357](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101357.zip), [R2-2101358](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101358.zip), [R2-2101359](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101359.zip), [R2-2100979](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100979.zip), [R2-2101289](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101289.zip), [R2-2101290](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101290.zip), [R2-2101291](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101291.zip), [R2-2101292](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101292.zip), [R2-2101657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101657.zip),

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any is agreeable.

Deadline: Schedule A (can come back Thu Feb 4 is needed)

[R2-2102333](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102333.zip) Summary of [028][TEI16] Miscellaneous I (Apple) Apple

CB ON-Line Feb 2

- Apple think now all proposals can be agreed.

DISCUSSION

Topic 1

- Samsung think solution 2 is not clear, and the CRs are still ambiguous. Samsung think we never had delta signalling, except for limited cases, but this is not assumed for this feature.

- Apple think that this should now be clear as it has been discussed now in 2 email discussions. If the CR is not perfect we can perfect it in the phase 2.

- ZTE think that the proposal from Samsung is to add one parameter to the internode signalling. Yes assumes no delta signalling.

- Nokia think that Solution 2 has different interpretation. Should not imply delta signalling between the nodes.

- xiaomi think that the MN just forwards to the SN what the UE transmits.

- ZTE think that solution 1 requires the MN to store, solution 2 is just transparent for MN.

- Nokia think we need SRB3 support, and think we assume that MN processes this. Samsung are correct that transparent forwarding is not specified currently.

- Chair: no time to converge now. Converge by email on what is the essence and definition of Option 2 alt the agreeable option.

* NR: Option 2 is agreed, i.e. 16ms + (Nseg-1)\*X to define the NR RRC processing time requirement for DL RRC message with segmentation.
* LTE: Option 2 is agreed i.e. 20ms + (Nseg-1)\*X to define the LTE RRC processing time requirement for DL RRC message with segmentation.
* X value is 10ms
* Will send LS to RAN5 to inform the RRC processing time extension for the RRC message with segmentation.

Continue by email.

[R2-2102474](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102474.zip) Phase 2 Summary of [028][TEI16] Miscellaneous I (Apple) Apple

* [028] noted, taken into acct, see below

Overheating Stop Behaviour

[R2-2101434](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101434.zip) Summary of e-mail discussion on UE indication when it no longer experiences overheating Ericsson discussion

[R2-2101346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101346.zip) Impacting UE to optimise inter-node transfer of SCG overheating info Samsung Telecommunications, LG Electronics Inc. discussion TEI16

[R2-2101170](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101170.zip) OverheatingAssistance Restriction Release Signalling in EN-DC Beijing Xiaomi Mobile Software discussion Rel-16

* [028] All three noted
* [028] Confirm the Rel-16 UE behavior defined in current specifications as follows (only chairman notes):

UE in EN-DC determines whether it experiences an overheating condition based on both MCG and SCG situation.

When the UE experiences the overheating condition, and UE has no SCG preference, the UE sends *OverheatingAssistance* IE containing *overheatingAssistanceForSCG* (which contains NR IE OverheatingAssistance without any sub fields);

If the UE no longer experiences an overheating condition, the UE sends *OverheatingAssistance* IE NOT containing *overheatingAssistanceForSCG.*

Overheating Other

[R2-2101656](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101656.zip) Correction on handling of overheatingAssistanceConfigForSCG when SCG is released Huawei, HiSilicon CR Rel-16 36.331 16.3.0 4584 - F TEI16

[R2-2102378](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102378.zip) Correction on handling of overheatingAssistanceConfigForSCG when SCG is released Huawei, HiSilicon CR Rel-16 36.331 16.3.0 4584 1 F TEI16

* [028] Agreed

[R2-2100872](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100872.zip) Cleanup on Overheating UAI reporting procedure Apple CR Rel-16 38.331 16.3.1 2361 - F TEI16

* [028] postponed

Processing time of DL Segmentation

[R2-2101356](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101356.zip) Summary of Email Report of [Post112-e][063][NR TEI16] RRC processing time with segmentation Apple discussion Rel-16 NR\_newRAT-Core, TEI16

[R2-2100979](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100979.zip) RRC processing delay for DL RRC segmentation Ericsson discussion Rel-16 TEI16

* [028] both noted

[R2-2101359](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101359.zip) Draft LS to RAN5 on RRC processing time with segmentation Apple LS out Rel-16 NR\_newRAT-Core, TEI16 To:RAN5

* [028] revised

[R2-2102472](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102472.zip) Draft LS to RAN5 on RRC processing time with segmentation Apple LS out Rel-16 NR\_newRAT-Core, TEI16 To:RAN5

* [028] Approved, final version in [R2-2102488](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102488.zip)

[R2-2101357](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101357.zip) NR RRC processing time with segmentation Apple CR Rel-16 38.331 16.3.1 2405 - F NR\_newRAT-Core, TEI16

[R2-2102470](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102470.zip) NR RRC processing time with segmentation Apple CR Rel-16 38.331 16.3.1 2405 - F NR\_newRAT-Core, TEI16

* [028] agreed

[R2-2101358](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101358.zip) LTE RRC processing time with segmentation Apple CR Rel-16 36.331 16.3.0 4572 - F NR\_newRAT-Core, TEI16

[R2-2102471](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102471.zip) LTE RRC processing time with segmentation Apple CR Rel-16 36.331 16.3.0 4572 - F NR\_newRAT-Core, TEI16

* [028] agreed

Release with Redirect – Continue from last meeting

[R2-2101289](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101289.zip) Release with Redirect in 2 steps Ericsson discussion Rel-16 TEI16

[R2-2101657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101657.zip) Release with redirection in 2 steps release Huawei, HiSilicon discussion Rel-16 TEI16

- [028] Rap: All companies think the case without UE context relocation is transparent to UE, and should be discussed in RAN3 or up to NW implementation.

- [028] The rapporteur think we can have the RAN2 CRs to reflect the agreements made in last RAN2 meeting, i.e. support release with redirection in response to a ResumeRequest for both with/without anchor change cases. About the inter-node signalling and procedure impact, it could leave RAN3 to discuss and decide whether to standardize it or not.

* [028] Confirm the previous agreement to support the release with redirection in response to a ResumeRequest for both with/without anchor change cases.
* [028] R2 assumes that the inter-node signalling and procedure impact can be up to NW implementation or left to RAN3 discussion.
* [028] Both noted

[R2-2101290](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101290.zip) Release with Redirect in 2 steps Ericsson CR Rel-16 38.331 16.3.1 2402 - F TEI16

[R2-2102383](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102383.zip) Release with Redirect in 2 steps Ericsson CR Rel-16 38.331 16.3.1 2402 1 F TEI16

* [028] agreed

[R2-2101291](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101291.zip) Release with Redirect in 2 steps Ericsson CR Rel-16 38.306 16.3.0 0503 - F TEI16

[R2-2102384](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102384.zip) Release with Redirect in 2 steps Ericsson CR Rel-16 38.306 16.3.0 0503 1 F TEI16

* [028] agreed

[R2-2101292](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101292.zip) Release with Redirect in 2 steps Ericsson CR Rel-16 38.300 16.4.0 0338 - F TEI16

[R2-2102385](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102385.zip) Release with Redirect in 2 steps Ericsson CR Rel-16 38.300 16.4.0 0338 1 F TEI16

* [028] agreed
* [AT113-e][029][TEI16] Miscellaneous II (Ericsson)

Scope: [R2-2100560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100560.zip), [R2-2100561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100561.zip), [R2-2100562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100562.zip), [R2-2100484](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100484.zip), [R2-2101288](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101288.zip), [R2-2101243](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101243.zip), [R2-2101734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101734.zip)

Phase 1: determine agreeable parts, Phase 2: for agreeable parts Work on CRs.

Intended outcome: Report and Agreed CRs if any agreeable.

Deadline: Schedule A

[R2-2102485](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102485.zip) Summary of [AT113-e][029][TEI16] Miscellaneous II (Ericsson) Ericsson

* [029] Noted, taken into account, see below

Voice Fallback Indication – Postponed from last meeting

[R2-2100560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100560.zip) Further discuss the usage of voiceFallbackIndication for Emergency Service Fallback ZTE Corporation, Sanechips discussion Rel-16 TEI16

[R2-2100484](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100484.zip) Clarify the usage of voiceFallbackIndication for emergency service Ericsson discussion Rel-16 TEI16

* [029] both noted
* [029] The *voiceFallbackIndication* is not included in the handover message for handover based Emergency service fallback. It is left for UE implementation to prioritize E-UTRA cells in case of HO failure during the Emergency services fallback.

[R2-2100561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100561.zip) CR to clarify the usage of voiceFallbackIndication for Emergency Services Fallback ZTE Corporation, Sanechips CR Rel-16 38.331 16.3.1 2048 1 F TEI16 R2-2009241

* [029] Not Pursued

[R2-2100562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100562.zip) CR to introduce new capability for Emergency Services Fallback ZTE Corporation, Sanechips CR Rel-16 38.306 16.3.0 0492 - F TEI16

* [029] Not Pursued

HO to EN-DC

[R2-2101288](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101288.zip) Complete message at handover NR to EN-DC Ericsson CR Rel-16 38.331 16.3.1 2401 - F TEI16

[R2-2102382](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102382.zip) Complete message at handover NR to EN-DC Ericsson CR Rel-16 38.331 16.3.1 2401 1 F TEI16

* [029] Agreed

Aperiodic CSI with secondary DRX

Postponed from last meeting – Should not need extensive discussion to establish whether there is support or not. If time we treat quickly on-line, otherwise email.

[R2-2101243](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101243.zip) Consideration on aperiodic CSI with secondary DRX CATT discussion Rel-16

[R2-2101734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101734.zip) Secondary DRX and aperiodic CSI Ericsson discussion Rel-16 TEI16 R2-2009948

* [029] Both noted

[R2-2102405](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102405.zip) Clarification for aperiodic CSI and secondary DRX group Ericsson CR Rel-16 38.331 16.3.1 2147 1 F TEI16

* [029] Agreed

TEI16 New Proposals – Not Treated

Barring alleviation for RNA

[R2-2101713](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101713.zip) Clarification on the initiation of RNA update Huawei, HiSilicon discussion Rel-16 TEI16

Redirection with AS MPS indication

[R2-2101473](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101473.zip) Redirection with MPS Indication Perspecta Labs, CISA ECD, T-Mobile, Ericsson CR Rel-16 38.331 16.3.1 2413 - C NR\_newRAT-Core, TEI16

[R2-2101476](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101476.zip) Redirection with MPS Indication Perspecta Labs, CISA ECD, T-Mobile, Ericsson CR Rel-16 36.331 16.3.0 4579 - C NR\_newRAT-Core, TEI16

Combined RRC procedure

[R2-2101319](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101319.zip) On combined RRC procedures Nokia, Nokia Shanghai Bell, Ericsson discussion Rel-16 TEI16 R2-2009925

[R2-2101320](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101320.zip) RRC processing delays for combined procedures Nokia, Nokia Shanghai Bell, Ericsson CR Rel-16 38.331 16.3.1 1288 7 F TEI16 R2-2009926

Security

[R2-2101326](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101326.zip) Additional security issue with duplicate detection Futurewei Technologies discussion Rel-16

[R2-2101327](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101327.zip) Draft running CR to TS 38.323 on additional security issue about duplicate detection Futurewei Technologies draftCR Rel-16 38.323 16.2.0 F TEI16

[R2-2101328](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101328.zip) Draft running CR to TS 38.322 on additional security issue about duplicate detection Futurewei Technologies draftCR Rel-16 38.322 16.2.0 F TEI16

# 7 Rel-16 EUTRA Work Items

Essential corrections

## 7.1 EUTRA Rel-16 General

No documents should be submitted to 7.1. Please submit to.7.1.x

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

### 7.1.1 Cross WI RRC corrections

[R2-2101036](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101036.zip) Clarification to the DRX cycle in RRC\_IDLE and RRC\_INACTIVE Huawei, HiSilicon CR Rel-16 36.331 16.3.0 4483 2 F LTE\_eMTC5-Core, NB\_IOTenh3-Core, TEI16 R2-2009738

### 7.1.2 Feature Lists and UE capabilities

[R2-2100005](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100005.zip) LS on updated Rel-16 RAN1 UE features lists for LTE (R1-2009351; 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

## 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.

### 7.2.1 General and Stage-2 corrections

Including incoming LSs

[R2-2100072](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100072.zip) Reply LS on early UE capability retrieval for eMTC (S2-2009345; contact: Qualcomm) SA2 LS in Rel-17 TEI16, TEI17, 5G\_CIoT To:RAN2 Cc:RAN, RAN3, CT1

### 7.2.2 Connection to 5GC corrections

Connection to 5GC for MTC and NB-IoT is treated jointly under this AI.

[R2-2100932](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100932.zip) Discussion for clarification on SIB acquisition for UE in RRC\_INACTIVE ZTE Corporation, Sanechips discussion Rel-16 LTE\_eMTC5-Core

[R2-2100936](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100936.zip) Clarification on SIB acquisition for UE in RRC\_INACTIVE ZTE Corporation, Sanechips CR Rel-16 36.331 16.3.0 4555 - F LTE\_eMTC5-Core

[R2-2101038](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101038.zip) System information change notification in RRC\_INACTIVE Huawei, HiSilicon discussion Rel-16 LTE\_eMTC5-Core

[R2-2101039](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101039.zip) Correction to UAC parameters acquisition Huawei, HiSilicon CR Rel-16 36.331 16.3.0 4563 - F LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2101155](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101155.zip) SIB acquisition by eMTC UE in RRC-INACTIVE Qualcomm Incorporated discussion Rel-16 LTE\_eMTC5-Core

[R2-2101467](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101467.zip) Clarification of SI acquisition for UEs configured with eDRX in RRC\_INACTIVE Ericsson LM CR Rel-16 36.331 16.3.0 4578 - F LTE\_eMTC5-Core

### 7.2.3 Other corrections

Including corrections related to Mobile-terminated early data transmission (MT-EDT), Scheduling multiple DL/UL transport blocks, Quality report in Msg3, MPDCCH performance improvement using CRS, Improvements for non-BL UEs, Stand-alone deployment, Mobility enhancements, coexistence with NR and MTC specific topics. Corrections related to mobile-terminated early data transmission, scheduling multiple DL/UL transport blocks and coexistence with NR are treated jointly for MTC and NB-IoT under this AI.

[R2-2100735](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100735.zip) PDCCH-based HARQ-ACK for a specific HARQ process with multi-TB scheduling Qualcomm Incorporated CR Rel-16 36.321 16.3.0 1517 - F LTE\_eMTC5-Core

[R2-2101040](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101040.zip) Correction to SIB29 acquisition Huawei, HiSilicon CR Rel-16 36.331 16.3.0 4564 - 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.

### 7.3.1 General and Stage-2 Corrections

Including incoming LSs etc

### 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.

[R2-2100943](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100943.zip) Discussion for correction on paging narrowband selection ZTE Corporation, Sanechips discussion Rel-16 NB\_IOTenh3-Core

[R2-2100957](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100957.zip) Correction on paging narrowband selection-Option 1 ZTE Corporation, Sanechips CR Rel-16 36.304 16.3.0 0819 - F NB\_IOTenh3-Core

R2-2100959 Correction on paging narrowband selection-Option 1 ZTE Corporation, Sanechips CR Rel-16 36.304 16.3.0 0820 - F NB\_IOTenh3-Core Withdrawn

[R2-2100965](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100965.zip) Correction on paging narrowband selection-Option 1 ZTE Corporation, Sanechips CR Rel-16 36.331 16.3.0 4556 - F NB\_IOTenh3-Core

[R2-2100966](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100966.zip) Correction on paging narrowband selection-Option 2 ZTE Corporation, Sanechips CR Rel-16 36.304 16.3.0 0821 - F NB\_IOTenh3-Core

[R2-2100968](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100968.zip) Draft LS to RAN3 on UE radio capability provision ZTE Corporation, Sanechips LS out Rel-16 NB\_IOTenh3-Core To:RAN3

[R2-2101037](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101037.zip) Paging monitoring in RRC\_INACTIVE for GWUS capable Ues Huawei, HiSilicon discussion Rel-16 LTE\_eMTC5-Core

[R2-2101152](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101152.zip) Paging narrowband/carrier selection after RRC connection release Qualcomm Incorporated discussion Rel-16 LTE\_eMTC5-Core

[R2-2101153](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101153.zip) [draft] LS on parameters needed at paging RAN node to reliably page an eMTC UE in RRC-INACTIVE state Qualcomm Incorporated LS out Rel-16 LTE\_eMTC5-Core To:RAN3

[R2-2101154](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101154.zip) Paging narrowband selection in RRC-INACTIVE state Qualcomm Incorporated CR Rel-16 36.304 16.3.0 0823 - F LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2101548](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101548.zip) Paging narrowband selection in RRC\_INACTIVE for LTE-M Ericsson discussion Rel-16 LTE\_eMTC5-Core

[R2-2101549](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101549.zip) Correction to paging narrowband selection in RRC\_INACTIVE for LTE-M Ericsson CR Rel-16 36.331 16.3.0 4581 - 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.

Including [Post112-e][351][NBIOT/eMTC R16] (N)RSRP reference for the TA validation for PUR (Huawei)

[R2-2101033](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101033.zip) Summary of email discussion [351] (N)RSRP reference for TA validation for PUR Huawei report Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2101034](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101034.zip) Clarification on the (N)RSRP reference for TA validation for PUR Huawei, HiSilicon CR Rel-16 36.331 16.3.0 4480 2 F NB\_IOTenh3-Core, LTE\_eMTC5-Core R2-2009730

[R2-2101035](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101035.zip) Clarification on the (N)RSRP reference for TA validation for PUR Huawei, HiSilicon CR Rel-16 36.321 16.3.0 1518 - F NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2101085](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101085.zip) Correction on Drb-ContinueROHC for UP-PUR vivo CR Rel-16 36.331 16.3.0 4567 - F NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2101550](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101550.zip) Timing alignment validation for transmission using PUR Ericsson discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2101551](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101551.zip) Correction to timing alignment validation for transmission using PUR Ericsson CR Rel-16 36.331 16.3.0 4582 - F LTE\_eMTC5-Core, NB\_IOTenh3-Core

### 7.3.4 Other NB-IoT Specific corrections

NB-IoT specific topics

## 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)

No documents should be submitted to 7.4. Please submit to.7.4.x

Documents under 7.4 will be treated together with documents in 6.7

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

LTE CHO corrections should be submitted to 6.7.2.

### 7.4.1 General and Stage-2 Corrections

Including incoming LSs (if any)

Including corrections to TS36.300 (for LTE CHO and LTE DAPS)

### 7.4.2 DAPS handover Corrections

This AI jointly addresses corrections to NR and LTE DAPS (i.e. both NR and LTE corrections for DAPS should be submitted here).Including corrections to control and user plane specifications (e.g. 3x.331, 3x.323, 3x.321) for DAPS HO.

[R2-2100487](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100487.zip) No support of SUL during DAPS handover Ericsson, ZTE, Sanechips CR Rel-16 38.300 16.4.0 0333 - F NR\_Mob\_enh-Core

[R2-2100488](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100488.zip) Reconfiguration during DAPS HO Ericsson discussion Rel-16 NR\_Mob\_enh-Core

[R2-2100525](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100525.zip) NUL and SUL in DAPS handover Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core

[R2-2100617](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100617.zip) Handling of CHO configuration during DAPS HO Intel Corporation CR Rel-16 38.331 16.3.0 2344 - F NR\_Mob\_enh-Core

[R2-2100618](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100618.zip) DAPS capability coordination between source and target Intel Corporation discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2100619](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100619.zip) Support of DAPS handover without key change Intel Corporation, Ericsson discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core R2-2009275

[R2-2100620](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100620.zip) Support of NUL and SUL during DAPS handover Intel Corporation, Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

[R2-2100626](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100626.zip) Miscellaneous corrections for Mobility Enhancements Intel Corporation (Rapporteur), Ericsson CR Rel-16 38.331 16.3.0 2345 - D NR\_Mob\_enh-Core

[R2-2100627](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100627.zip) 38.331 CR on support of NUL and SUL during DAPS handover Intel Corporation, Huawei, HiSilicon CR Rel-16 38.331 16.3.0 2346 - F NR\_Mob\_enh-Core

[R2-2100628](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100628.zip) 38.300 CR on support of NUL and SUL during DAPS handover Intel Corporation, Huawei, HiSilicon CR Rel-16 38.300 16.4.0 0334 - F NR\_Mob\_enh-Core

[R2-2101101](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101101.zip) Handling of non-DAPS bearers during DAPS HO MediaTek Inc. discussion

[R2-2101497](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101497.zip) CR for handling of unforeseen protocol data during DAPS HO Samsung CR Rel-16 38.321 16.3.0 1035 - F NR\_Mob\_enh-Core

[R2-2101498](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101498.zip) Handling of unforeseen protocol data during DAPS handover Samsung discussion Rel-16 NR\_Mob\_enh-Core

[R2-2101499](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101499.zip) Correction on PDCP transmit operation Samsung CR Rel-16 38.323 16.2.0 0064 - F NR\_Mob\_enh-Core, NR\_IIOT-Core

[R2-2101501](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101501.zip) Views on several security concerns for DAPS handover Samsung discussion Rel-16 NR\_Mob\_enh-Core

[R2-2101533](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101533.zip) Corrections for DAPS Handover MediaTek Inc. CR Rel-16 38.331 16.3.1 2417 - F NR\_Mob\_enh-Core

[R2-2101534](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101534.zip) Corrections for DAPS Handover MediaTek Inc. CR Rel-16 36.331 16.3.0 4580 - F LTE\_feMob-Core

[R2-2101568](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101568.zip) Corrections to DAPS handover in LTE ZTE Corporation, Sanechips CR Rel-16 36.331 16.3.0 4583 - F LTE\_feMob-Core

[R2-2101569](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101569.zip) Clarification on no support of SUL with DAPS ZTE Corporation, Sanechips, Ericsson CR Rel-16 38.331 16.3.1 2421 - F NR\_Mob\_enh-Core

[R2-2101579](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101579.zip) DAPS HO without security key change LG Electronics Inc. discussion LTE\_feMob-Core R2-2010328

[R2-2101711](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101711.zip) Discussion on source release indication Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2101712](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101712.zip) Discussion on inter-node signalling for DAPS UE capability coordination Huawei, HiSilicon, MediaTek Inc., Qualcomm Incorporated, China Telecom, China Unicom discussion Rel-16 NR\_Mob\_enh-Core

[R2-2101902](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101902.zip) Potential security issue on DAPS handover with key change failure SHARP Corporation discussion Rel-16 NR\_Mob\_enh-Core R2-2010209

### 7.4.3 UE capability corrections

Including UE capability aspects of LTE mobility WI (i.e. UE capability corrections to 36.331 and 36.306).

## 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)

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

Including TEI16 corrections and issues that do not fit under any other topic.

[R2-2100443](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100443.zip) BufferSize reconfiguration for UDC after RRC connection re-establishment MediaTek Inc. CR Rel-16 36.331 16.3.0 4551 - C TEI16

[R2-2100606](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100606.zip) Clarification to Fallback band combination definition Nokia, Nokia Shanghai Bell CR Rel-16 36.306 16.3.0 1782 2 F TEI16 R2-2009433

[R2-2101665](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101665.zip) Correction on SCG overheating configuration release Google Inc. CR Rel-16 36.331 16.3.0 4587 - F TEI16

## 7.6 LTE Positioning

(NavIC, LTE TEI16 Positioning)

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

# 8 Rel-17 NR Work Items

## 8.1 NR Multicast

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: RP-201038)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 4-6 threads

### 8.1.1 Organizational, Requirements, Scope and Architecture

Including stage-2 proposals. Incouding outcome of [Post112-e][068][MBS] Stage-2 running CR (CMCC).

* [AT113-e][037][MBS] MBS General (Huawei)

Scope: Based on [R2-2102253](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102253.zip), work on running CR to make it acceptable (based on previous meeting agreements). Address the issues needed to reply to SA2 LS, progress as much as possible, Come Back ON-line if needed. (note that the issue whether Multicast can be supported in Idle or inactive will be treated online).

Intended outcome: Endorsable Running CR, Draft LS out, Report

Deadline: In time for next online session for the items that need on-line attention, EOM for the rest.

* [AT113-e][038][MBS] UP architecture decisions (Chairman)

Scope: Gather comments to facilitate a CB to address two decision: A) on L2 ARQ for PTM, B) for PTM PTP switch, which layer to be the anchor.

Intended outcome: Report with collection of comments

Deadline: Friday Jan 29 1200 UTC

[R2-2102482](D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_113-e\\Docs\\R2-2102482.zip" \o "D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102482.zip) Report of [Offline-037][MBS] MBS General (Huawei) Huawei, HiSilicon

* [037] Noted
* [037] RAN2 assumes that MBS session join/leave indications are sent using NAS signalling regardless of the RRC state the UE is in. 5GC should inform RAN about the UE leaving the MBS session.
* [037] If the UE which joined the multicast session is in RR CONNECTED state when the session is started, the gNB sends RRC Reconfiguration message with relevant MBS configuration to the UE and there is no need for separate session start notification for this UE. FFS for session activation.
* [037] RAN2 assumes that from RAN2 perspective, mobility from the source gNB supporting MBS to target gNB not supporting MBS can be achieved by switching the traffic from delivery via MRB to delivery via DRB either before or during the handover. Whether and how this can be done without data losses has to be further investigated and requires progress and input from other WGs, i.e. RAN3 and SA2.
* [037] RAN2 will not provide further reply to SA2 on assistance information from CN to RAN on PTP/PTM delivery method decision and switching.
* [037] RAN2 will reply that it will wait for SA3 to finalize their study on security for MBS before discussing security aspects in RAN2.
* [037] Request a clarification from SA2 on whether and what the difference is between session start and session activation and between the session stop and session deactivation.
* [037] RAN2 will not address the note on 5GC Shared MBS delivery in the reply LS to SA2.
* [037] Reply to SA2/SA4 that:

SYNC protocol is not supported in the specifications in Rel-17

RAN2 has agreed that ROHC is to be located in RAN

LS in

[R2-2100032](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100032.zip) Response LS on RAN impact of FS\_5MBS Study (R3-207059; contact: Nokia) RAN3 LS in Rel-17 FS\_5MBS, NR\_MBS-Core To:SA2 Cc:RAN2

* Noted

[R2-2100071](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100071.zip) LS on 5MBS progress and issues to address (S2- 2009235; contact: Huawei) SA2 LS in Rel-17 FS\_5MBS, NR\_MBS-Core To:RAN2, RAN3 Cc:SA4

- Huawei explains that we need to reply to SA2 this meeting.

* We will reply (email + potential online CB if needed)

[R2-2102480](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102480.zip) Reply LS on 5MBS progress and issues to address RAN2 LS out

* [037] The LS out is approved (this is the final version)

LS out

[R2-2101051](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101051.zip) MBS L2 Architecture, Control Plane and SA2 LS Discussion Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2101185](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101185.zip) Discussion on the SA2 LS and the reply LS Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2101719](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101719.zip) Discussion on SA2 LS on 5MBS Progress and Issues to address CMCC discussion Rel-17 NR\_MBS-Core

[R2-2101720](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101720.zip) Reply LS to SA2 on 5MBS Progress and Issues to address CMCC LS out Rel-17 NR\_MBS-Core To:SA2, RAN3 Cc:RAN3

* [037] 4 docs above are noted

Work plan

[R2-2101010](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101010.zip) Updated NR MBS workplan Huawei, CMCC, HiSilicon discussion Rel-17 NR\_MBS-Core

* [037] Noted

Running CR

[R2-2101718](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101718.zip) 38.300 Running CR for MBS in NR CMCC CR Rel-17 38.300 16.4.0 0342 - B NR\_MBS-Core Late

=> Revised in R2-102253

[R2-2102253](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102253.zip) 38.300 Running CR for MBS in NR CMCC CR Rel-17 38.300 16.4.0 0342 1 B NR\_MBS-Core

DISCUSSION

- Mediatek think we should have definitions for delivery mode 1 and delivery mode 2.

- CMCC explains that many companies think that these are just working terms to increase the understanding. Chair think that is ok. Ericsson believe these terms are not clear.

- Xiaomi think we need a separate section for broadcast.

- CATT think that sections on service continuity need to be expanded for further scenarios.

- ZTE also has concerns on the clause of multicast, and think we are aiming to have “lossless” handover. ZTE cannot accept the current text, we should really use the work AIM.

- Ericsson think we should use same language as other groups.

- Huawei think the whole feature is a bit immature and we can change a lot .

- Chair think that if we have difficulty agreeing on language we should not get stuck, and we should put what we can agree in the normative part and the more difficult parts in the Annex.

* To be revised (email).

[R2-2102463](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102463.zip) 38.300 Running CR for MBS in NR CMCC CR Rel-17 38.300 16.4.0 0342 3 B NR\_MBS-Core

* [037] Endorsed

General

[R2-2100082](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100082.zip) Discussion on Requirement and Architecture of MBS CATT discussion Rel-17 NR\_MBS-Core

[R2-2100130](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100130.zip) RRC state control for MBS reception OPPO discussion Rel-17 NR\_MBS-Core

[R2-2100803](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100803.zip) Further consideration of control plane aspects for NR MBS Kyocera discussion Rel-17

[R2-2101215](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101215.zip) General aspects of NR MBS ZTE, Sanechips discussion Rel-17

[R2-2101735](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101735.zip) Data inactivity during MBS reception Ericsson discussion Rel-17 NR\_MBS-Core

L2 Arch

[R2-2100174](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100174.zip) L2 structure for NR MBS transmission MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2101860](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101860.zip) Discussion on overall architecture of MBS traffic delivery LG Electronics Inc. discussion Rel-17 NR\_MBS-Core

[R2-2100353](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100353.zip) MBS Protocol Architecture and Logical Channel Aggregation Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2100318](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100318.zip) NR Multicast and Broadcast Radio Bearer Architecture aspects Qualcomm Inc discussion Rel-17 NR\_MBS-Core R2-2009036

[R2-2101139](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101139.zip) MBS L2 architecture Lenovo, Motorola Mobility discussion Rel-17

[R2-2100937](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100937.zip) Discussion on L2 User Plane for NR MBS CHENGDU TD TECH LTD. discussion

[R2-2101006](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101006.zip) Layer-2 Structure for MBS Samsung discussion Rel-17

[R2-2101007](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101007.zip) MBS Radio Bearer (MRB) Type Samsung discussion Rel-17

R2-2101625 Discussion on L2 architecture CMCC discussion Rel-17 NR\_MBS-Core Revised

[R2-2101730](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101730.zip) Discussion on L2 architecture CMCC discussion Rel-17 NR\_MBS-Core R2-2101625

### 8.1.2 Connected mode UEs

#### 8.1.2.1 Reliability

Including outcome of [Post112-e][071][MBS] UP Performance (Qualcomm)

[R2-2100322](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100322.zip) Email discussion report for [Post112-e][071][MBS] UP Performance Qualcomm Inc discussion Rel-17 NR\_MBS-Core

DISCUSSION

P1 P2 P3

- Chair believes P1 P2 doesn’t need to be discussed. They seem obvious.

- CMCC think P123 are in the SA2 TR. For P3 the Unicast DRB is not equivalent to PTP

- vivo think P1 P2 P3 is about QoS modelling, we can confirm this.

- Nokia think we shold have discussed RLC AM for PTM but that was not discussed, so the email discussion had zero progress.

- FW: On P3 we should confirm that MRB means that we may have both PTP and PTM

- Convida wonders then what is the definiotn of MBS

P4

- Chair: has the situation changed? On RLC-AM per PTM

- QC argues that this shall be decided based on formal QoS requirements.

- QC think PTM PTP switching is the same as RLC AM for PTM.

- FW think we need to explore what is the impact of solutions.

- Samsung think PDCP retransmission can only be used at certain procedures. Samsung think situation is the same, as no company objecting to RLC-AM has changed their mind.

- LG think the QoS can be met by a mix of PTP and PTM. LG think TX wind lower edge move has issues for PTM and think it can be equivalent to RLC AM. LG think PDCP retransmission can be used. LG means that the TX lower edge is stuck due to the worst UE, so to not stall there is a need to progress the window without ack (i.e. with data loss)

- IDT agrees with comments that RLC-AM is complex and that there may be issues when adapting to the worst UEs. Can we anyway fullfill the performance requirements?

- Lenovo think we are repeating, and we should just confirm the WA. Think PDCP retx can be FFS. Convida agrees that maybe PDCP retx is needed.

- CATT think we don’t need to compare complexity of PDCP retransmission, and think the main method is to switch PTP PTM can confirm the WA

- CMCC also think the main method is PTM PTP switch. Think also that it will be difficult to manage RLC in a good way.

- Huawei agrees that RLC-AM is complex. Huawei think that anchor point is important to discuss, and think RLC anchor point doesn’t work for RLC UM.

- NEC think P4 doesn’t bring progress.

- BT think that PTM with RLC-AM is needed.

* Confirm P1 P2 P3 (assume that MRB may include both PTP and PTM)

[R2-2102313](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102313.zip) [AT113-e][038][MBS] UP architecture decisions Chairman

*Proposal 1: (A1+B1), For the case that both PTM and PTP are RLC-UM, No L2 ARQ with PDCP anchored PTM – PTP switching shall be supported,*

*Proposal 2: Discuss whether to support any of:*

*- A1+B1 for PTM RLC-UM + PTP RLC-AM, possibly with some kind of data recovery in the switching procedure.*

*- A2+B1 for PTM RLC-UM + PTP RLC-AM*

*- A3+B2(+B1) For PTM RLC-AM + PTP RLC-AM*

DISCUSSION

P1

- MTK not clear whether we need to limit the RLC modes

- QC think this means that reliability requirements are not met and think this shall not be agreed.

- ZTE think A1 is easily agreeable.

- Nokia think this is good.

- Nokia think that the requirements are for multicast not PTM leg. LG agrees with Nokia, in cases when PTM cannot support QoS, PTP can be used. Support P1. LG think that P1 might be sufficient for this release.

- QC think that multicast should use PTM.

- IDT are confused, how is proposal 1 related to reliability.

- Huawei, Xiaomi, Lenovo, vivo, apple, CATT support P1.

- CMCC think we need to also address PTP RLC-AM ..

- Ericsson agree with P1, and think the PTP link is useful.

- CATT think we can try to agree the first bullet of P2

- TD tech support the P1 (the updated one)

- QC also support P1

P2

- Chair understanding is that actually all the proposals on the table could support the high reliability requirement. Indeed RLC AM proposal would be expected to be the most efficient by using PTM to greater extent (at least greater than A1), and by retransmitting segments. TO be continued at a later meeting.

- FW suggest that proponents provides CRs to assess the complexity. Chair agrees that the complexity assessment is the least mature part of this.

* For the case that both PTM and PTP are RLC-UM, configuration with No L2 ARQ and with PDCP anchored PTM – PTP switching shall be supported (e.g. for services that would typically be configured with RLC UM for unicast).

[R2-2100083](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100083.zip) Reliability Improvement for PTM Transmission CATT discussion Rel-17 NR\_MBS-Core

[R2-2100131](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100131.zip) Discussion on reliability for MBS reception OPPO discussion Rel-17 NR\_MBS-Core

[R2-2100172](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100172.zip) HARQ operation to improve reliability for PTM transmission MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2100319](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100319.zip) NR Multicast PTM bearer RLC AM mode operation Qualcomm Inc, FirstNet,British Telecom,UIC, Kyocera,BBC, AT&T discussion Rel-17 NR\_MBS-Core R2-2009034

[R2-2100354](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100354.zip) L2 Retransmission (PDCP vs. RLC) for MBS Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2100355](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100355.zip) ARQ of PTM with Logical Channel Aggregation Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2100370](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100370.zip) PDCP Operation for MBS Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core R2-2009313

[R2-2100372](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100372.zip) Handling of Measurement Gaps Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2100676](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100676.zip) Discussion on reliability of MBS transmission Spreadtrum Communications discussion Rel-17 NR\_MBS-Core

[R2-2100761](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100761.zip) Bearers for MBS Transmission Sharp discussion

[R2-2100832](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100832.zip) Reliability for MBS Service vivo discussion

[R2-2100940](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100940.zip) Discussion on L2 user plane reliability for NR MBS CHENGDU TD TECH LTD. discussion

[R2-2101008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101008.zip) RLC AM for PTM Samsung discussion Rel-17

[R2-2101011](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101011.zip) Reliability enhancement for NR MBS Huawei, CBN, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2101049](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101049.zip) Complexity analysis for reliability enhancement in RLC and PDCP Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2101120](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101120.zip) Issues on MBS reliability Lenovo, Motorola Mobility discussion Rel-17

[R2-2101172](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101172.zip) Reliability and Dynamic Switch for MBS Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2101216](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101216.zip) Consideration on MBS reliability guarantee ZTE, Sanechips discussion Rel-17

[R2-2101316](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101316.zip) MBS Reliability InterDigital discussion Rel-17 NR\_MBS-Core

[R2-2101372](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101372.zip) Consideration on the MBS transmission reliability Apple discussion Rel-17 NR\_MBS-Core

[R2-2101626](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101626.zip) Discussion on MBS Reliability issues CMCC discussion Rel-17 NR\_MBS-Core

[R2-2101649](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101649.zip) On reliability enhancement for NR multicast and broadcast Convida Wireless discussion Rel-17 NR\_MBS-Core

[R2-2101677](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101677.zip) PDCP retransmission for PTM Beijing Xiaomi Mobile Software discussion Rel-17 NR\_MBS-Core

[R2-2101861](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101861.zip) Discussion on reliability improvement and UL feedback in NR multicast LG Electronics Inc. discussion Rel-17 NR\_MBS-Core

#### 8.1.2.2 Dynamic PTM PTP switch with service continuity

[R2-2100084](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100084.zip) Open Issues on Dynamic PTM and PTP Switch CATT discussion Rel-17 NR\_MBS-Core

[R2-2100173](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100173.zip) Dynamic PTM-PTP switch MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2100321](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100321.zip) Enhancements for supporting loss less switch between PTM and PTP RLC legs Qualcomm Inc discussion Rel-17 NR\_MBS-Core R2-2009037

[R2-2100356](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100356.zip) Service Continuity during Dynamic PTM/PTP Switch with Logical Channel Aggregation Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2100506](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100506.zip) Consideration on dynamic switch between PTP and PTM Shanghai Jiao Tong University discussion

[R2-2100643](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100643.zip) MBS split bearer configuration and PTP/PTM switching Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core R2-2009314

[R2-2100677](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100677.zip) Discussion on dynamic PTM PTP switch Spreadtrum Communications discussion Rel-17 NR\_MBS-Core

[R2-2100709](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100709.zip) DL PDCP SN alignment issue NEC discussion Rel-17 NR\_MBS-Core Late

[R2-2100760](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100760.zip) Support of dynamic switch between PTP and PTM Sharp discussion R2-2009576

[R2-2100825](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100825.zip) The counting scheme for dynamically switching PTM and PTP ITRI discussion NR\_MBS-Core

[R2-2100833](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100833.zip) Dynamic PTM PTP switch for RRC Connected UE vivo discussion

[R2-2100898](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100898.zip) Security keys considering PTP/PTM switch for delivery mode 1/2 Sony discussion Rel-17 NR\_MBS-Core

[R2-2100942](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100942.zip) Dynamic switch between PTM and PTP with service continuity CHENGDU TD TECH LTD. discussion

[R2-2100988](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100988.zip) Dynamic PTM PTP switching LG Electronics Inc. discussion Rel-17

[R2-2101012](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101012.zip) Support of dynamic switch between PTP and PTM Huawei, CBN, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2101143](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101143.zip) MBS dynamic switch between PTP and PTM with service continuity Lenovo, Motorola Mobility discussion Rel-17

[R2-2101217](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101217.zip) Mode switching for NR MBS ZTE, Sanechips discussion Rel-17

[R2-2101317](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101317.zip) PTM/PTP mode switching InterDigital discussion Rel-17 NR\_MBS-Core

[R2-2101373](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101373.zip) Dynamic PTM PTP switch with service continuity Apple discussion Rel-17 NR\_MBS-Core

[R2-2101605](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101605.zip) Dynamic PTM/PTP Switching Convida Wireless discussion Rel-17 NR\_MBS-Core R2-2010139

[R2-2101627](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101627.zip) Discussion on Dynamic PTP and PTM switch CMCC discussion Rel-17 NR\_MBS-Core

[R2-2101758](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101758.zip) Dynamic switch between PTM and PTP for service continuity Intel Corporation discussion Rel-17 NR\_MBS-Core

#### 8.1.2.3 Mobility with Service continuity

[R2-2101374](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101374.zip) Mobility with service continuity Apple discussion Rel-17 NR\_MBS-Core

[R2-2101628](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101628.zip) Discussion on Mobility with service Continuity CMCC discussion Rel-17 NR\_MBS-Core

[R2-2100085](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100085.zip) Open Issues on Mobility with Service Continuity CATT, CBN discussion Rel-17 NR\_MBS-Core

[R2-2100414](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100414.zip) NR Multicast Broadcast mobility enhancements with service continuity Qualcomm Inc discussion Rel-17 NR\_MBS-Core R2-2009035

[R2-2100630](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100630.zip) Handling MBS during a CHO Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2101171](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101171.zip) Mobility for NR MBS Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2100133](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100133.zip) Discussion on mobility with MBS Service continuity OPPO discussion Rel-17 NR\_MBS-Core

[R2-2100450](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100450.zip) Mobility with Service Continuity Samsung discussion

[R2-2100644](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100644.zip) MBS Mobility with Service Continuity Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2100678](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100678.zip) Discussion on service continuity during mobility Spreadtrum Communications discussion Rel-17 NR\_MBS-Core

[R2-2100834](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100834.zip) Lossless Handover for MBS vivo discussion

[R2-2100835](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100835.zip) MBS Service Continuity for RRC Connected UE vivo discussion

[R2-2100899](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100899.zip) Standalone MRB for delivery mode 1 and RLM Sony discussion Rel-17 NR\_MBS-Core

[R2-2100944](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100944.zip) Discussion on mobility with service continuity CHENGDU TD TECH LTD. discussion

[R2-2100991](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100991.zip) Mobility with service continuity LG Electronics Inc. discussion Rel-17

[R2-2101050](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101050.zip) MBS service continuity in mobility Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2101140](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101140.zip) Connected Mode Mobility with Service Continuity Lenovo, Motorola Mobility discussion Rel-17

[R2-2101144](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101144.zip) HO for NR MBS MediaTek Inc. discussion

[R2-2101187](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101187.zip) Service continuity during inter-cell mobility Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2101218](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101218.zip) Lossless handover support for NR MBS ZTE, Sanechips discussion Rel-17

[R2-2101678](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101678.zip) Packet loss at the PDCP reestablishment of RLC UM Beijing Xiaomi Mobile Software discussion Rel-17 NR\_MBS-Core

[R2-2101679](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101679.zip) Support of DAPS handover for PTM MBS Beijing Xiaomi Mobile Software discussion Rel-17 NR\_MBS-Core

#### 8.1.2.4 Other

Including e.g. RAN2 aspects of group scheduling.

[R2-2102249](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102249.zip) Summary for MBS Group Scheduling under Agenda Item 8.1.2.4 vivo discussion

[R2-2100086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100086.zip) Discussion on Group Scheduling CATT discussion Rel-17 NR\_MBS-Core

[R2-2100132](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100132.zip) Discussion on group based scheduling for MBS OPPO discussion Rel-17 NR\_MBS-Core

[R2-2100176](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100176.zip) PTM scheduling for NR MBS MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2100361](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100361.zip) MBS MAC layer and group scheduling aspects Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2100371](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100371.zip) Miscellaneous Aspects of MBS Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core R2-2009315

[R2-2100435](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100435.zip) Considerations on Group Scheduling and Multiplexing Aspects Samsung discussion

[R2-2100505](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100505.zip) Consideration on Group Scheduling Aspects Shanghai Jiao Tong University discussion

[R2-2100836](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100836.zip) Group Scheduling for MBS vivo discussion

[R2-2100958](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100958.zip) RAN2 related aspects for NR MBS CHENGDU TD TECH LTD. discussion

[R2-2100989](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100989.zip) MBS configuration for RRC\_CONNECTED LG Electronics Inc. discussion Rel-17

[R2-2101013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101013.zip) High layer aspects for group scheduling Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2101060](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101060.zip) Considerations on measurements for NR MBS in idle/inactive Lenovo, Motorola Mobility discussion Rel-17 NR\_MBS-Core

[R2-2101173](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101173.zip) Aspects of Group Sscheduling Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2101219](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101219.zip) Group scheduling for NR MBS ZTE, Sanechips discussion Rel-17

[R2-2101375](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101375.zip) MBS reception in CONNECTED state Apple discussion Rel-17 NR\_MBS-Core

[R2-2101680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101680.zip) Slow-moving PDCP reception window issue Beijing Xiaomi Mobile Software discussion Rel-17 NR\_MBS-Core

### 8.1.3 Idle and Inactive mode UEs

Including outcome of [Post112-e][069][MBS] Delivery mode 2 (MediaTek)

[R2-2100177](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100177.zip) Email Report of [Post112-e][069][MBS] Delivery mode 2 MediaTek Inc. discussion Rel-17 NR\_MBS-Core

DISCUSSION

P1

- Chair think we agreed this last meeting. No need to reconfirm.

- Huawei think there were doubts.

- QC think the wording should be broadcast service. MBS seems to indicate both broadcast and multicast. LG has different understanding.

- Ericsson think it is not clear how this is supported, and think we need to iron this out. Agree with QC and would prefer to use broadcast instead of delivery mode 2.

- CMCC agrees with Ericsson and Huawei that this is unclear.

- Firstnet would like to put this in a simpler way.

- FW think multicast and broadcast is not clear from SA2.

- ZTE support the text

P4

- MTK clarifies that the intention is to clarify the “broadcast manner”.

- Ericsson and Chair think this is the same as previous.

- MTK clarifies that P4 is for connected mode UEs. Chair think that this proposal is then that we don’t optimize for connected mode UEs. Oppo agrees that we don’t need to have specific mechanism for connected.

- Vivo agrees.

- CATT think it is ok but think it can be slightly reworded

- FW agrees.

P5

- ZTE think that the baseline part is good and there is no need for the FFS as 2/3 of the companies do not support this in the email discussion. Huawei agrees, and the first part is already agreed. The FFS is controversial. Samsung too.

- LG think on-demand MCCH is beneficial but think we can leave this to network impl but no need to specify UE behaviour.

- Chair: There is not much support for on-demand MCCH, can be revisited only if there is a reasonable justification. We don't agree the FFS in the following for now and the rest seems already agreed: Reuse LTE SC-PTM mechanism (i.e. Broadcast mode based MCCH transmission) as the baseline for NR MBS delivery mode 2 and FFS for on-demand based MCCH transmission.

P6

- Chair wonder if there are other cases. MTK indicate that other cases has been discussed.

- CATT think we can discuss P678 together, both the meachnaism and the purpose.

- Xiaomi think that the change notification by DCI is limited as there are limited bits. Maybe paging is better.

- Ericsson think MCCH can be optional and in such case also the notifications are optional.

- Oppo wonder if P6 means that MCCH configuration cannot be changed during the life of a MBS session.

P9

- Lenovo wonder if this is just for Broadcast, if so it is agreeable.

- Samsung think Bcast is low priority and interest indication is not required.

- Ericsson are not sure whether there are alternatives. Ericsson are not sure what are the requirements on the network. Worried about the network impact.

- vivo support this and it is needed for HO case for service continuity,

- Apple also support this. Apple think we can specify this and still the ambition level is best effort for the network. Kyocera also support. Intel think this is a hint to the network. Sony think this can also be used for counting. Oppo support but think we should make purpose clear.

- ZTE think that if we borrow the mechanism from LTE then there is also a priority indication which involves some network requirement.

P11

- Nokia wonder what is the SI in this case. SAI or TMGIs … Nokia recalls that the LTE remapping was due to overhead. Maybe USD even simpler.

- CATT think the P11 is too detailed, e.g. we don’t know what is in USD. ZTE agrees that USD is not clear, so we need to come back can have a note. OPPO agrees with CATT and think we don’t know if we have USD.

- Huawei think R2 is discussing SAI FFS is ok.

- Samsung think we should study first and then agree.

P12

- ZTE think that frequency is confusing as in NR we don’t use freq the same way.

- MTK explains that the intention is to discriminate between Freq. based vs neighbor cell based information.

- QC think this can be agreed,

- ZTE prefers to not rush

- Ericsson think we could agree guidance on Freq level.

P13

- CATT think this is dependent in P12 and should then be FFS.

- Ericsson think there may be mobility side effects

P2

- Ericsson think that multicast shall be supported in Inactive and Idle, as for critical comm. it is important to continue service. This should be controlled by the network, i.e. at high load the network releases specific UEs, e.g. UEs in good radio conditions where the UE can receive the service with good QoS even if not connected. Intention is that ony UEs in good conditions are released and don’t need UL to receive with sufficient QoS. The intention is that the PTM transmissions that UEs in Connected receives can also be received in Inactive / Idle.

- QC think there is some confusion. SA2 LS was send for broadcast and not multicast. Later SA2 agreed to support broadcast as well. QC further point out that Multicast is only in CM-Connected so not Idle. This issue is not in R2 domain.

- Huawei think the question is whether Multicast can be received in Inactive and Idle, this is not about delivery mode 2 (as indicated in the P2 wording). Agree with QC that there is an issue for Idle. Huawei think there is an agreement on cell level localization for UEs in Multicast. Think this can be done by implementation in Inactive.

- LG think that the issue is whether the Multicast session can have low QoS or not. LG think the only difference is that the UE need to join. LG think we need to send an LS to SA2 to ask on QoS.

- CMCC think that he network need to know which cells where joined UEs are located. CMCC agree that Idle is an issue.

- Xiaomi think inactive state is ok

- Firstnet think Multicast shall be supported in Inactive / Idle.

- Nokia agrees that for Idle this cannot be support, for QoS there is no principal issue.

- NEC think that Connected is required for joining but can be supported that a UE goes to Inactive / Idle. Think this is beneficial for network load.

- Lenovo suggest LS to SA2 to confirm that Whether there is a problem supporting multicast in inactive. FW agrees we need to send LS. BT CMCC Apple also want to send LS

- Intel MT support P2. LG support if we can confirm there is no QoS issue.

- FW think there are services that are group specific but with low QoS.

- QC think that we should limit to CM-CONNECTED. QC think we can agree to support this for RRC INACTIVE.

- Attempted agreement (intended to be baseline for an LS to SA2); *RAN2 think there are cases (e.g. high load) for which UE receiving multicast should be released to Inactive or Idle, and continue to receive the service in this state, only by PTM. The criteria for which UEs to release is FFS and may be up to implementation, it is proposed it can be related to radio conditions. Many companies think it would be easier to limit the scope to Inactive.*

- Nokia don't agree that this is needed.

- SoH important to support: 18 companies

- SoH this is not really needed; 8 companies.

- Nokia think we can consider the overload case. Maybe there is a problem? Making multicast look like Bcast doesn’t look like a good idea.

- Chair think that if we limit to inactive the cross group dep. is less and maybe this issue can be postponed.

P14

- Nokia think we need to discuss the details of what is the neighbour information

- Chair: we leave this open for now.

Open issues

- Huawei think we don't capture these as FFSes for the WI, they seem like optimizations with low support.

* Both idle/inactive UEs and connected mode UEs can receive MBS services transmitted by NR MBS delivery mode 2 (Broadcast service as already agreed, TBD other). The ability for connected mode UEs to receive this may depend on the network provisioning of the service (e.g. which freq), UE connected mode configuration and UE capabilities.
* The two-step based approach (i.e. BCCH and MCCH) as adopted by LTE SC-PTM is reused for the transmission of PTM configuration for NR MBS delivery mode 2.
* Assume it is possible to reuse LTE SC-PTM mechanism for the CONNECTED UEs to receive the PTM configuration for NR MBS delivery mode 2, i.e. broadcast based manner.
* Assume that MCCH change notification mechanism is used to notify the changes of MCCH configuration due to session start for delivery mode 2 of NR MBS (other cases FFS, if any).
* Assume that MBS Interest Indication is supported for UEs in connected mode for Broadcast service (assume that as usual there is no mandatory network requirement, network action is up to network).
* MBS Interest Indication is NOT supported for UEs in idle/inactive mode for NR MBS delivery mode 2.
* Assume that some information for purpose of service continuity can be provided for NR MBS delivery mode 2. (FFS what - need to be revisited, e.g. based on progress in other groups, e.g. USD, SAI/TMGI etc)
* FFS whether support UE awareness of MBS services on frequency basis for service continuity for NR MBS delivery mode 2 (i.e. Reuse LTE SC-PTM mechanism).
* FFS Support frequency prioritization during cell reselection for service continuity for NR MBS delivery mode 2 (i.e. Reuse LTE SC-PTM mechanism).
* P2: Whether UEs that receive Multicast can be released to RRC Inactive / Idle and continue receiving Multicast is Postponed. Should limit to RRC inactive in future discussions

[R2-2101186](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101186.zip) On the general aspects for delivery mode 1 and 2 Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2101737](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101737.zip) Multicast in Idle and Inactive Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2100451](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100451.zip) NR MBS in Idle/Inactive mode Samsung discussion

[R2-2101736](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101736.zip) MBS and Idle and Inactive mode UEs Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2100087](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100087.zip) Open Issues on MBS Reception for Idle and Inactive UEs CATT, CBN discussion Rel-17 NR\_MBS-Core

[R2-2100675](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100675.zip) Discussion on MBS session delivery mode Spreadtrum Communications discussion Rel-17 NR\_MBS-Core

[R2-2101141](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101141.zip) Discussion on MBS delivery modes Lenovo, Motorola Mobility discussion Rel-17

[R2-2100134](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100134.zip) Discussion on MBS interesting indication and service continuity for delivery mode 2 OPPO discussion

[R2-2100135](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100135.zip) Discussion on beam sweeping transmission for delivery mode 2 OPPO discussion Rel-17 NR\_MBS-Core

[R2-2100175](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100175.zip) Common frequency resource for NR PTM transmission MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2100320](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100320.zip) NR Multicast-Broadcast services and configuration for UEs in different RRC states Qualcomm Inc discussion Rel-17 NR\_MBS-Core R2-2009038

[R2-2100631](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100631.zip) Discussion on NR MBS solutions of mode 2 delivery Futurewei discussion Rel-17 NR\_MBS-Core R2-2009283

[R2-2100679](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100679.zip) MBS session in Idle and Inactive mode Spreadtrum Communications discussion Rel-17 NR\_MBS-Core

[R2-2100837](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100837.zip) MBS in Idle and Inactive Mode vivo discussion

[R2-2100960](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100960.zip) Control plane for delivery mode 2 for NR MBS CHENGDU TD TECH LTD. discussion

[R2-2100963](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100963.zip) Simultaneous MBS and Unicast Operation in Idle/inactive Mode TCL Communication Ltd. discussion Rel-17

[R2-2100990](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100990.zip) MBS in IDLEINACTIVE LG Electronics Inc. discussion Rel-17

[R2-2101080](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101080.zip) MBS Idle Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2101188](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101188.zip) MBS configuration for delivery mode 2 Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2101220](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101220.zip) Delivery mode 2 for NR MBS ZTE, Sanechips discussion Rel-17

[R2-2101376](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101376.zip) MBS reception in IDLE/INACTIVE state Apple discussion Rel-17 NR\_MBS-Core

[R2-2101495](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101495.zip) NR MBS Configuration Information Convida Wireless discussion Rel-17 NR\_MBS-Core

[R2-2101594](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101594.zip) PTM configuration for NR MBS TCL Communication Ltd. discussion Rel-17

[R2-2101606](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101606.zip) On NR multicast and broadcast for RRC\_IDLE/RRC\_INACTIVE UEs Convida Wireless discussion Rel-17 NR\_MBS-Core

[R2-2101629](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101629.zip) Discussion on delivery mode 2 CMCC discussion Rel-17 NR\_MBS-Core

[R2-2101681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101681.zip) Combination of service continuity and counting for delivery mode 2 Beijing Xiaomi Mobile Software discussion Rel-17 NR\_MBS-Core

[R2-2101682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101682.zip) Beam association for MCCH and MCCH change notification Beijing Xiaomi Mobile Software discussion Rel-17 NR\_MBS-Core

[R2-2101759](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101759.zip) MBS support for delivery mode 2 Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2101892](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101892.zip) Discussion on MBS Control Information Configuration TCL Communication Ltd. discussion Rel-17

[R2-2101903](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101903.zip) L2 architecture for delivery mode 2 SHARP Corporation discussion Rel-17 NR\_MBS-Core

## 8.2 MR DC/CA further enhancements

(LTE\_NR\_DC\_enh2-Core; leading WG: RAN2; REL-17; WID: RP-201040)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 3 threads

No documents should be submitted to 8.2. Please submit to.8.2.x

### 8.2.1 Organizational, Requirements and Scope

Including LSs, and any rapporteur inputs.

R2-2101480 Work plan for Rel-17 Further Multi-RAT Dual-Connectivity enhancements Huawei Work Plan Rel-17 LTE\_NR\_DC\_enh2-Core Late

### 8.2.2 Efficient activation / deactivation mechanism for one SCG and SCells

[R2-2100136](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100136.zip) Discussion on SCG deactivation and activation OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100137](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100137.zip) Discussion on TRS activation for fast SCell activation OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100426](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100426.zip) Discussion on SCG deactivation China Telecom discussion

[R2-2100568](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100568.zip) Further consideration on SCG deactivation and activation ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100589](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100589.zip) Progressing SCG deactivation and resumption for R17 Samsung Telecommunications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100632](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100632.zip) Further discuss the issues with SCG fast activation Futurewei discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2009284

[R2-2100640](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100640.zip) Further considerations on SCG deactivation NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100641](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100641.zip) SCG (de)activation initiation NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100647](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100647.zip) Considerations on Time Alignment Timer for SCG deactivation KDDI Corporation discussion

[R2-2100667](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100667.zip) Discussion on efficient activation mechanism for one SCG and SCells Spreadtrum Communications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100729](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100729.zip) Power-efficient SCG (De)activation mechanism LG Electronics discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100730](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100730.zip) Time-fficient SCG (De)activation mechanism LG Electronics discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101014](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101014.zip) UE behavior for SCG deactivation vivo discussion LTE\_NR\_DC\_enh2-Core

[R2-2101015](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101015.zip) Signaling aspect of SCG activation and deactivation vivo discussion LTE\_NR\_DC\_enh2-Core

[R2-2101077](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101077.zip) Deactivated SCG handling Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101078](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101078.zip) MN and SN responsibilities for SCG deactivation Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101094](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101094.zip) Mobility and RRM for deactivated SCG Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101095](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101095.zip) On the need for random access during SCG activation Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101096](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101096.zip) SCG (de)activation procedure Ericsson discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2101121](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101121.zip) General issues on SCG activation and deactivation Lenovo, Motorola Mobility discussion Rel-17

[R2-2101122](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101122.zip) [Draft] LS on SCG activation and deactivation Lenovo, Motorola Mobility LS out Rel-17 LTE\_NR\_DC\_CA\_enh-Core To:RAN3

[R2-2101123](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101123.zip) SCell states configuration in the same RRC message to activate/deactivate SCG Lenovo, Motorola Mobility discussion Rel-17

[R2-2101235](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101235.zip) Further Considerations on Efficient SCG Activation/Deactivation CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2009357

[R2-2101312](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101312.zip) On Support of Activation/Deactivation for SCG InterDigital discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101464](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101464.zip) Remaining open items on SCG deactivation feature Apple Inc discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2009531

[R2-2101481](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101481.zip) UE behaviour on deactivated SCG Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101482](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101482.zip) SCG activation and deactivation procedure Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101483](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101483.zip) Selection of SCG activation state at mobility and resume Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101541](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101541.zip) Consideration for some remaining FFSes Intel Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101807](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101807.zip) Discussion on SCG deactivation MediaTek Inc. discussion LTE\_NR\_DC\_enh2-Core

R2-2101865 LS RAN2 decisions for SCG deactivation Nokia, Nokia Shanghai Bell LS out Rel-17 LTE\_NR\_DC\_enh2-Core To:RAN3 Withdrawn

[R2-2101871](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101871.zip) UE behaviour in SCG deactivated state Qualcomm Incorporated discussion Rel-17

[R2-2101876](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101876.zip) Further discussion for SCG deactivation SHARP Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101883](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101883.zip) Considerations on SCells in SCG deactivation CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101884](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101884.zip) Signallings of SCG activation and deactivation CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101915](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101915.zip) Further consideration on SCG activation and deactivation NTT DOCOMO INC. discussion LTE\_NR\_DC\_enh2-Core Late

### 8.2.3 Conditional PSCell change / addition

[R2-2100292](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100292.zip) Considerations on failure handling for CPAC China Telecommunication discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100463](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100463.zip) Discussion on the configuration of CPAC vivo discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100464](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100464.zip) Discussion on CPAC configuration scenarios vivo discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100531](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100531.zip) On Rel-17 Basic CPAC procedures Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100532](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100532.zip) On Rel-17 Further CPAC functionalities Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100590](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100590.zip) Progressing conditional configuration for R17 Samsung Telecommunications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100633](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100633.zip) CPAC failure handling discussion Futurewei discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2009285

[R2-2100642](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100642.zip) Candidate PSCell selection in CPAC NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100672](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100672.zip) CPC configuration number restriction Spreadtrum Communications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100727](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100727.zip) Support for CHO and CPAC coexistence LG Electronics discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100728](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100728.zip) Consideration on further enhancements in CPAC LG Electronics discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2010282

[R2-2100783](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100783.zip) New timer for SDT failure detection LG Electronics discussion Rel-17 NR\_SmallData\_INACTIVE-Core Withdrawn

[R2-2100827](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100827.zip) SCG RLF handling in case CPC is configured ITRI discussion LTE\_NR\_DC\_enh2-Core

[R2-2100847](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100847.zip) Discussion on conditional PSCell addition OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100848](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100848.zip) Discussion on conditional PSCell change OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2100875](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100875.zip) Details in conditional PSCell change and addition Apple discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101124](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101124.zip) Discussion on CPAC Lenovo, Motorola Mobility discussion Rel-17

[R2-2101236](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101236.zip) Further Discussion on CPAC CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101237](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101237.zip) Introduction of CPA and Inter-SN CPC for 37 340 CATT draftCR Rel-17 37.340 16.4.0 B LTE\_NR\_DC\_enh2-Core

[R2-2101238](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101238.zip) Handling leftovers from email discussion [Post111-e][920] Conditional PSCell Change and Addition CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2009360

[R2-2101270](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101270.zip) Conditional PSCell Change / Addition Ericsson discussion LTE\_NR\_DC\_enh2-Core

[R2-2101313](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101313.zip) Coexistence of CHO and CPAC InterDigital, Nokia, Nokia Shanghai Bell, ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

=> Revised in [R2-2101959](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101959.zip)

[R2-2101959](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101959.zip) Coexistence of CHO and CPAC InterDigital, Nokia, Nokia Shanghai Bell, ZTE Corporation, Sanechips, vivo discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101402](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101402.zip) Introducing MR DC/CA further enhancements concerning CPAC Samsung Telecommunications draftCR Rel-17 38.331 16.3.1 B LTE\_NR\_MUSIM-Core

[R2-2101403](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101403.zip) Introducing MR DC/CA further enhancements concerning CPAC Samsung Telecommunications draftCR Rel-17 36.331 16.3.0 B LTE\_NR\_DC\_enh2-Core

[R2-2101484](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101484.zip) Conditional PSCell change/addition Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101566](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101566.zip) Discussion on conditional PSCell addition and change ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101567](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101567.zip) Further consideration on conditional PSCell addition and change ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101765](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101765.zip) Discussion on CPAC Execution ETRI discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2010248

[R2-2101872](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101872.zip) CPA and MN initiated Inter-SN CPC procedures: preparation and execution phases Qualcomm Incorporated discussion Rel-17

[R2-2101875](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101875.zip) SN initiated Inter-SN CPC procedure: preparation and execution phases Qualcomm Incorporated discussion Rel-17

[R2-2101885](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101885.zip) Considerations on CPAC CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101886](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101886.zip) Discussions about CPA and MN initiated inter-SN CPC procedures CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2101916](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101916.zip) Further consideration on Conditional PSCel change and addition NTT DOCOMO INC. discussion LTE\_NR\_DC\_enh2-Core Late

## 8.3 Multi SIM

(LTE\_NR\_MUSIM-Core; leading WG: RAN2; REL-17; WID: RP-202895)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.3.1 Organizational, Requirements and Scope

Including LSs and any rapporteur input.

[R2-2100042](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100042.zip) Reply LS on System support for Multi-USIM devices (R3-207207; contact: vivo) RAN3 LS in Rel-17 LTE\_NR\_MUSIM-Core To:SA2, RAN2 Cc:SA3

[R2-2100471](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100471.zip) Running CR to 36300 for Multi-USIM devices support vivo draftCR Rel-17 36.300 16.4.0 B LTE\_NR\_MUSIM-Core

[R2-2100472](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100472.zip) Running CR to 38300 for Multi-USIM devices support vivo draftCR Rel-17 38.300 16.4.0 B LTE\_NR\_MUSIM-Core

R2-2101632 Revised Work Plan for RAN Slicing CMCC Work Plan Rel-17 FS\_NR\_slice Withdrawn

R2-2101633 Draft TR 38.832 v0.4.0 CMCC draft TR Rel-17 38.832 0.4.0 FS\_NR\_slice Withdrawn

R2-2101634 Report of [Post112-e][253][RAN slicing] Prioritized solutions for RAN slicing CMCC discussion Rel-17 FS\_NR\_slice Withdrawn

R2-2101635 Draft TP for TR 38.832 v0.4.0 CMCC discussion Rel-17 38.832 FS\_NR\_slice Withdrawn

### 8.3.2 Paging collision avoidance

Including discussion on enhancement(s) to address the collision due to reception of paging when the UE is in IDLE/INACTIVE mode in both the networks associated with respective SIMs [RAN2]

[R2-2100244](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100244.zip) Paging collision avoidance OPPO discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100250](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100250.zip) Multi-SIM Paging Collision Solution MITRE Corporation discussion Revised

[R2-2100280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100280.zip) Further Consideration on Paging Collision Avoidance CATT discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100428](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100428.zip) Consideration on the Paging Collision ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100434](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100434.zip) Paging Collision Avoidance for Multi-RAT MUSIM UE Samsung discussion

[R2-2100445](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100445.zip) Solutions for paging collisions Qualcomm Incorporated discussion

[R2-2100473](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100473.zip) Evaluation on Paging Collision Solutions vivo discussion LTE\_NR\_MUSIM-Core

[R2-2100507](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100507.zip) RAN impacts of solutions for paging collision avoidance Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2100724](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100724.zip) Considerations for Paging Collision for Multi-SIM UEs Charter Communications, Inc discussion

[R2-2100732](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100732.zip) Consideration on Options for Paging Collision LG Electronics discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100849](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100849.zip) Methods of MUSIM Page Collision Avoidance Apple discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100900](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100900.zip) Discussion on paging collision avoidance in Multi-SIM Sony discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2101097](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101097.zip) On Paging Collision Avoidance Huawei, HiSilicon discussion

[R2-2101222](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101222.zip) Definition and solution for paging collision, RRC Inactive, SI change Lenovo, Motorola Mobility discussion LTE\_NR\_MUSIM-Core

[R2-2101296](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101296.zip) Multi-SIM Paging Collision Solution MITRE Corporation discussion [R2-2100250](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100250.zip)

[R2-2101304](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101304.zip) Discussion of the paging collision problem Xiaomi Communications discussion

[R2-2101428](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101428.zip) Paging collision avoidance Ericsson discussion

[R2-2101536](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101536.zip) Multi-SIM Devices - Paging Collision MediaTek Inc. discussion

[R2-2101542](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101542.zip) Support for SA2 agreed NAS based IMSI offset signaling in EPS Intel Corporation discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2101543](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101543.zip) “Effective” solution for paging collision avoidance for 5GS Intel Corporation discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2101636 Discussion on SA2 LS, potential solutions and draft TP for slice-based cell (re)selection CMCC discussion Rel-17 FS\_NR\_slice Withdrawn

[R2-2101748](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101748.zip) UE indication of paging collision for Multi-SIM ASUSTeK discussion Rel-17 LTE\_NR\_MUSIM-Core

### 8.3.3 UE notification on network switching for multi-SIM

Including discussion on mechanism for UE to notify Network A of its switch from Network A (for MUSIM purpose)

Including outcome of [Post112-e][256][Multi-SIM] Network switching details (vivo)

[R2-2100245](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100245.zip) UE notification on network switching for multi-SIM OPPO discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100281.zip) Further Consideration on Network Switching CATT discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100290](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100290.zip) Discussion of network switching for Multi-SIM China Telecommunication discussion Rel-17

[R2-2100429](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100429.zip) Consideration on the Switching Notification Procedure ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100446](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100446.zip) Network switching mechanisms for Multi-SIM Qualcomm Incorporated discussion

[R2-2100474](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100474.zip) [post112-e][256][Multi-SIM] Network switching details (vivo) vivo discussion LTE\_NR\_MUSIM-Core

[R2-2100475](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100475.zip) Discussion on Switching Notification Procedure vivo discussion LTE\_NR\_MUSIM-Core

[R2-2100482](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100482.zip) Open issues on network switching scenarios Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100508](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100508.zip) Switching notification procedure for basic switching scenarios for Single RX UE Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2100509](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100509.zip) On Additional scenarios for switching notification Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2100654](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100654.zip) Discussion on the transmission of busy indication Spreadtrum Communications discussion Rel-17 LTE\_NR\_MUSIM

[R2-2100725](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100725.zip) Network Switching for Multi-SIM UEs Charter Communications, Inc discussion

[R2-2100731](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100731.zip) Consideration on Scheduling gap for SIM Switching LG Electronics discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100750](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100750.zip) UE notification procedure for short time switching NEC discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100763](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100763.zip) Short-time and Long-time Switching Notification Sharp discussion

[R2-2100850](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100850.zip) Methods of MUSIM Network Switching Apple discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100851](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100851.zip) Handling of BUSY indication in RRC INACTIVE state Apple discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100901](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100901.zip) Discussion on Busy Indication and Leaving in Multi-SIM Sony discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2101106](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101106.zip) Switching Notification in MUSIM Lenovo, Motorola Mobility discussion Rel-17

[R2-2101276](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101276.zip) On coordinated switching from NW for MUSIM device Huawei, HiSilicon discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2101305](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101305.zip) Discussion of the UE notification on network switching for multi-SIM Xiaomi Communications discussion

[R2-2101427](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101427.zip) Graceful leaving for a MultiSIM device Ericsson discussion

[R2-2101537](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101537.zip) Multi-SIM Devices - Notification upon Network Switching MediaTek Inc. discussion

[R2-2101544](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101544.zip) Busy indication signaling for Multi-SIM Intel Corporation discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2101637 Solutions analysis and draft TP for slice-based RACH configuration CMCC discussion Rel-17 FS\_NR\_slice Withdrawn

[R2-2101749](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101749.zip) MUSIM Release Assistance Info for network switching ASUSTeK discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2101780](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101780.zip) Analysis on various scenarios of UE switching China Telecomunication Corp. discussion Rel-17

[R2-2101789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101789.zip) Discussion on Scheduling gap for Periodic short-time switching China Telecomunication Corp. discussion

[R2-2101842](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101842.zip) Consideration on Busy Indication LG Electronics Finland discussion Rel-17

[R2-2101937](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101937.zip) Considerations for MSIM UE notification on network switching Futurewei Technologies discussion

### 8.3.4 Paging with service indication

Including discussions on mechanism for an incoming page to indicate to the UE whether the service is voLTE/VoNR (pending SA2 feedback).

This agenda item may be deprioritized in this meeting (depending on whether SA2 input is received).

[R2-2100200](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100200.zip) Discussion on support of paging cause for Multi-SIM devices Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100246](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100246.zip) Paging with service indication OPPO discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100430](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100430.zip) Consideration on the Paging Service Indication ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2100447](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100447.zip) Service Type in Paging and Busy Indication Qualcomm Incorporated discussion

[R2-2100476](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100476.zip) Discussion on Supporting of Paging Cause vivo discussion LTE\_NR\_MUSIM-Core

[R2-2100655](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100655.zip) Discussion on the transmission of paging cause Spreadtrum Communications discussion Rel-17 LTE\_NR\_MUSIM

[R2-2101098](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101098.zip) Discussion on the paging with service indication Huawei, HiSilicon discussion

[R2-2101307](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101307.zip) Discussion of the paging cause support for MUSIM Xiaomi Communications discussion

[R2-2101429](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101429.zip) Introduction of a Paging cause indication Ericsson discussion

[R2-2101538](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101538.zip) Multi-SIM Devices - Paging Cause MediaTek Inc. discussion R2-2009791

## 8.4 NR IAB enhancements

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: RP-201293)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.4.1 Organizational Requirements and Scope

Including work plan and any other rapporteur input.

* [AT113-e][030][eIAB] Reply LS DAPS-like solution (Ericsson)

Scope: Make Reply LS following the on-line agreements.

Intended outcome: Approved LS

Deadline: Interactive discussion

[R2-2102288](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102288.zip) Summary of [AT113-e][030][eIAB] Reply LS DAPS-like solution (Ericsson) Ericsson

DISCUSSION

- Ericsson think it was unclear what DAPS-like is.

- QC think it is good to send the Q on DAPS like back. Vivo agrees. Ericsson think this is one MT.

- vivo wonder if 1b is single MT or multiple MT. think this need clarification. Sony agrees.

- LG think that when we have a clear picture we can analyse, and the LS only need to reply P2 and P4. Huawei too,

- AT&T think we need to give a bit more guidance on P4.

- LG and Apple object to include P1.

* We will reply
* Will include P2.
* Will include P4, removing text after considering.
* Will indicate regarding P3 that R2 doesn’t understand what is asked by “DAPS-like”, Ask R3 to clarify what they want to achieve.

[R2-2102364](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102364.zip) Reply LS on DAPS-like solution for service interruption reduction RAN2 LS out

FROM OFFLINE [030]

- Ericsson think that R3 is preparing an LS with replies already.

- QC think we should reply, as this is in reply to another LS.

- Chair: There is confusion on DAPS.

- Huawei think we don’t need the question on DAPS-like.

* LS is Approved (this is the final version)

LS in

[R2-2100038](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100038.zip) LS on DAPS-like solution for service interruption reduction in Rel-17 IAB (R3-207184; contact: Samsung) RAN3 LS in Rel-17 NR\_IAB\_enh-Core To:RAN2

- Samsung indicate that the key issue for R3 is sim tx

* Noted

[R2-2100041](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100041.zip) LS on inter-donor topology redundancy (R3-207199; contact: Samsung) RAN3 LS in Rel-17 NR\_IAB\_enh-Core To:RAN1 Cc:RAN2

* Noted

[R2-2100040](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100040.zip) LS on CP-UP separation of Rel-17 IAB (R3-207198; contact: Samsung) RAN3 LS in Rel-17 NR\_IAB\_enh-Core To:RAN2

* Noted

Work Plan

[R2-2100591](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100591.zip) Updated workplan for Rel-17 IAB Qualcomm Incorporated (WI Rapporteur) Work Plan Rel-17 R2-2009291

- QC think duplexing can wait and R1 will send LSes

- Cu-UP sep is not in the plan, may be good to start

- Huawei wonder if R2 should be involved in inter-CU routing, as R3 has started. QC think that after this meeting R3 will send LSes to R2.

* Noted

### 8.4.2 Enhancements to improve topology-wide fairness multi-hop latency and congestion mitigation

Including outcome of [Post112-e][065][eIAB] Fairness Latency Congestion (Samsung)

[R2-2101168](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101168.zip) Report from email discussion [Post112-e][065][eIAB] Fairness Latency Congestion (Samsung) Samsung Electronics GmbH report

DISCUSSION

- Huawei think P1 means nothing Samsung think it closes an FFS.

P2

- Chair think we don't dicuss. The scope is set by the WID

P3

- LG wonder if this is to find a new solution, or whether R16 solution can be applicable as well. Samsung and chair confirms, these are issues. We intend to address but if we find that nothing new is needed that is ok. Chair: the fact that the issues are in the scope should mean that there is a lot of support to do some work.

- IF4 Futurewei wonder if we need the wording within brackets.

- Nokia think that there wasn’t that much support for several of the proposals e.g. IF-2 had 50% support.

- IDT think the proposals are too wordy, and it will cause problems later. We should make these much shorter.

- CATT think that per bearer fairness in 1:N mapping is not needed, and IF-2 is about that.

P4

- LG think IL-5 and 6 are in RAN3 domain. Huawei agrees. Ericsson agrees but are ok to keep them meanwhile.

- Ericsson think that specifying pre-emptive BSR more is not beneficial. Samsung indicate that there was significant support for this.

- QC think IL-4 is more important than others on this list. Sony agrees, Convida and Nokia agrees. Vivo cannot accept to include IL-4. LG don’t want to include it either. Ericsson think this is indeed configurable, and wonder if this is not already specified. ZTE think that PDB is single hop, but think this is a RAN3 issue.

* RAN2 will not further discuss ways of evaluating success of any fairness mechanisms that may be introduced, beyond the already agreed definition of topology-wide fairness and its variants.
* Chair: On the agreed issues below, the agreement doesn’t mean that we have agreed that there need to be a solution for it in R17. Furthermore, liberal interpretation of the text is ok.
* ISSUES: eIAB work on topology-wide fairness will focus on the following issues

IF-1: The scheduler of an IAB node does not have all the information needed (e.g. link quality across multiple hops) to make appropriate upstream or downstream scheduling decisions which take into account the overall route link quality (such as e.g. using downstream link quality measurements to adjust the scheduling weights so as to achieve proportional fairness for different bearers/RLC channels across multiple child-IAB nodes)

IF-2: Congestion conditions on BH RLC channels carrying UE bearers with same or similar QoS requirements can be unbalanced and some channels may even be congested, thereby leading to some users experiencing longer latency and violating fairness requirement.

IF-4: IAB node cannot give more resource to those BH RLC CHs that aggregate more bearers and/or carry bearers with higher load per bearer (i.e. IAB node cannot give more resource to those BH RLC CHs with higher aggregate load)

* ISSUES: In the first instance, eIAB work on multi-hop latency will focus on the following issues:

IL-1: IAB node cannot help ensure that overall or remaining PDB is met for a packet (e.g. by prioritizing bearers with higher number of hops), as it does not have a latency reference for the packets being scheduled, resulting in packets with the same QoS requirement ending up with different latency

IL-2: IAB node may need to report joint buffer status for LCHs which have rather differing QoS requirements, due to the current (Rel-16) limit on the number of LCGs

IL-3: Buffer size calculation for pre-emptive BSR may differ for nodes of different vendors as it is left to implementation in Rel-16

IL-5: The CU is unable to put bearers with lower PDB on routes with less congestion risk (higher resource efficiency) or which are RLF-free

IL-6: The CU is unable to configure routing based on actual (real-time) latency per BH RLC channel

Continued DISCUSSION Last day

P5

- LG think this doesn’t need to be captured. Samsung think that is ok.

Chair Going forward, issue IC-4 will be treated as part of the Topology adaptation discussion:

P6

- Ericsson and Huawei think that IC-7 is RAN3 scope. Ericsson think we need to be careful to not do double work. Huawei think that congestion indication was agreed in R3.

- CATT agrees and we don’t need to discussion EE FC is R3. Samsung thikn this is not only about EE FC.

- IC-7 LG agrees this is R3. IC-1 LG think this can be resolved by CU UP and should be handled by RAN3 solution.

- QC agrees and think R3 addressed both IC-1 and IC-7. Vivo agrees.

- Chair wonders if this is now to be done by R3 and R2 is involved only by R3 request

- Samsung indicate that DL HbH FC had wide support. QC think HbH FC has issues as there is no FC to the CU. Chair: it seems like DL HbH FC also has a R3 dependency.

* R2 has concluded that there is sufficient interest among companies to address the following two issues:

IC-1: Long-term downstream congestion on a single link cannot be alleviated using existing Rel-16 DL HbH flow control mechanisms, without having to rely on dropping packets

IC-7: CU (not having knowledge of local congestion conditions) cannot update the routing path that is experiencing congestion.

* Both IC-1 and CI-7 are related to RAN3. RAN3 seems to also work on this, so to what extent R2 shall work on this is currently not clear.

[R2-2100593](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100593.zip) Simulations on fairness support in IAB topology Qualcomm Incorporated discussion Rel-17 R2-2009293

[R2-2101260](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101260.zip) Multi-hop scheduling and local routing enhancements for IAB AT&T discussion

[R2-2101502](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101502.zip) Consideration on identified issues for fairness, latency and congestion LG Electronics discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101086.zip) Fairness, latency and congestion – solutions Samsung Electronics GmbH discussion

[R2-2101202](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101202.zip) Hop-by-hop flow control in uplink Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

[R2-2100752](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100752.zip) Discussion on the fairness enforcement and congestion mitigation for IAB Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

[R2-2100801](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100801.zip) Consideration of topology-wide fairness and multi-hop latency enhancements for eIAB Kyocera discussion Rel-17

[R2-2100824](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100824.zip) An elaboration of required PDB for multi-hop latency ITRI discussion NR\_IAB\_enh-Core

[R2-2100594](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100594.zip) Enhancements to improve IAB multi-hop latency Qualcomm Incorporated discussion Rel-17

[R2-2100753](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100753.zip) Consideration on multi-hop latency in IAB Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

[R2-2100902](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100902.zip) Topology-wide fairness and Latency enhancements and congestion mitigation Sony discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101070](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101070.zip) Enhancements for topology-wide fairness, multi-hop latency and congestion mitigation Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101284](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101284.zip) Enhancements to improve topology-wide fairness, multi-hop latency and congestion mitigation ZTE, Sanechips discussion Rel-17

[R2-2101314](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101314.zip) On multi-hop latency, fairness and congestion mitigation InterDigital discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101448](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101448.zip) On Topology-wide Fairness, Multi-hop Latency and Congestion Mitigation Ericsson discussion NR\_IAB\_enh-Core

[R2-2100358](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100358.zip) Discussion on Topology-wide fairness, latency and flow control enhancement Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

[R2-2100708](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100708.zip) IAB fairness scheduling NEC discussion Rel-17 NR\_IAB\_enh-Core Late

[R2-2101820](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101820.zip) Rel. 17 IAB enhancements for fairness, multi-hop latency reduction, and congestion mitigation Futurewei Technologies discussion R2-2010099

[R2-2100885](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100885.zip) Solutions to ensure fairness, latency bounds and mitigation of congestion impacts in eIAB Networks Apple discussion Rel-17 NR\_IAB\_enh-Core

[R2-2100477](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100477.zip) Discussion on congestion, RLF and fairness handling vivo discussion NR\_IAB-Core

[R2-2100225](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100225.zip) Consideration on topology-wide fairness, multi-hop latency and congestion mitigation CATT discussion NR\_IAB\_enh-Core

### 8.4.3 Topology adaptation enhancements

Including outcome of [Post112-e][066][eIAB] Topology Adaptation (Qualcomm)

Email Discussion

[R2-2100592](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100592.zip) Report from email discussion [Post112-e][066][eIAB] Topology Adaptation Qualcomm Incorporated discussion Rel-17

=> Revised in [R2-2102238](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102238.zip)

[R2-2102238](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102238.zip) Report from email discussion [Post112-e][066][eIAB] Topology Adaptation Qualcomm Incorporated discussion Rel-17

DISCUSSION

P1 P3 P4

- Apple support these.

- IDT wonder why we need P3, it is already in R16. QC indicate that this is about resource reservation.

- Huawei think P4 is not needed.

- CATT agree P1, for p4 we can confirm

- Huawei think P3 is important. Sony support P3.

- Ericsson think P3 is not needed.

- ZTE support P4

P5-P9

- LG think there are two kind of behaivours, a) impl local impact, b) specified with network impact.

- Apple are worried about implementation overriding global procedure. For interop maybe something need to be specified.

- ZTE think that local rerouting shall not be triggered by type 2 RLF ind as the connection can still be recovered.

- LG think that also Type 3 and 4 can be used.

* RAN2 to discuss CHO and start with intra-donor CHO until RAN3 has made progress on inter-donor IAB-node migration.
* R2 confirm the intention Rel-16 CHO is / can be used for IAB-MT (FFS whether any modification is needed).
* R2 assumes that Rel-16 specification is the baseline for the configuration of default route, IP address(es) and target path for intra-donor CHO.
* RAN2 to support type-2/3 RLF indication (FFS specified behavior(s) TS impact, FFS details).
* Type-2 RLF indication may be used to trigger local rerouting
* Type-2 RLF indication may be used to trigger deactivation of IAB-supported in SIB
* Type-2 RLF indication may be used to trigger deactivation or reduction of SR and/or BSR transmissions
* Local rerouting can be triggered by indication of hop-by-hop flow control. Further details, e.g., on trigger information, trigger conditions, role of CU configuration, are FFS.
* RAN2 considers inter-donor-DU local rerouting to be in scope

General

[R2-2101071](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101071.zip) Consideration of topology adaptation enhancement for R17-IAB Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

[R2-2100359](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100359.zip) Discussion on Topology adaptation enhancements Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

[R2-2100802](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100802.zip) Further consideration of topology adaptation enhancements for eIAB Kyocera discussion Rel-17

[R2-2100903](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100903.zip) Topology adaptation enhancements in IAB Sony discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101261](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101261.zip) Topology adaptation enhancements for IAB AT&T discussion

[R2-2100886](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100886.zip) Discussion on topology adaptation enhancements in eIAB Networks Apple discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101283](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101283.zip) Considerations on topology adaptation enhancements in IAB ZTE, Sanechips discussion Rel-17

[R2-2101315](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101315.zip) On IAB Topology Adaptation InterDigital discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101798](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101798.zip) RAN2 impacts of Rel.17 IAB topology adaptation enhancements Futurewei Technologies discussion R2-2010490

[R2-2100360](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100360.zip) Discussion on RAN3 LS of DAPS-like solution Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101449](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101449.zip) On IAB Inter-donor Topology Adaptation Ericsson discussion NR\_IAB\_enh-Core

[R2-2100226](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100226.zip) CHO and DAPS CATT discussion NR\_IAB\_enh-Core

[R2-2101109](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101109.zip) CHO in IAB system Lenovo, Motorola Mobility discussion Rel-17

[R2-2101766](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101766.zip) Discussion on Resource Reservation for CHO ETRI discussion Rel-17 NR\_IAB\_enh-Core

[R2-2100478](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100478.zip) On inter-CU Topology Adaptation Enhancements vivo discussion NR\_IAB-Core

[R2-2101450](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101450.zip) LS on DAPS-like solution for service interruption reduction Ericsson LS out Rel-17 NR\_IAB\_enh-Core To:RAN3

CP UP Split

[R2-2100612](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100612.zip) On CP\_UP split for topology adapation enhancements Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101282](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101282.zip) Discussion on CP/UP separation ZTE, Sanechips discussion Rel-17

[R2-2101905](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101905.zip) Issues on UL RLF notification and CP-UP separation Samsung R&D Institute UK discussion

Rerouting RLF specifcs

[R2-2100611](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100611.zip) Re-routing enhancements in IAB Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

[R2-2100227](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100227.zip) RLF Indication and Local Rerouting CATT discussion NR\_IAB\_enh-Core

[R2-2100754](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100754.zip) Handling of descendant nodes and UEs in inter-CU CHO and RLF recovery Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

[R2-2100595](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100595.zip) Inter-donor-DU local rerouting for IAB Qualcomm Incorporated discussion Rel-17

[R2-2101142](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101142.zip) Discussion on IAB packet rerouting Lenovo, Motorola Mobility discussion Rel-17

[R2-2101208](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101208.zip) Discussion on RLF indication enhancement and local routing for R17-IAB CANON Research Centre France discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101503](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101503.zip) Consideration on local re-routing LG Electronics discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101514](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101514.zip) BH RLF indications with conditional mobility and local re-routing LG Electronics discussion Rel-17

### 8.4.4 Duplexing enhancements RAN2 scope

This sub-Agenda Item is Postponed

[R2-2100479](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100479.zip) Duplexing enhancements of inter-carrier DC vivo discussion NR\_IAB-Core

[R2-2101072](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101072.zip) Duplexing enhancements for R17 IAB Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

[R2-2101100](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101100.zip) Views on duplexing enhancements Samsung Electronics GmbH discussion

[R2-2101262](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101262.zip) Duplexing enhancements for IAB AT&T discussion

## 8.5 NR IIoT URLLC

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: RP-201310)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 2-3 threads

Focus to clarify the scope, understand the dependencies to other groups, get proposals on the table.

### 8.5.1 Organizational

Rapporteur input

[R2-2100043](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100043.zip) Reply LS on Use of Survival Time for Deterministic Applications in 5GS (R3-207211; contact: Nokia) RAN3 LS in Rel-17 FS\_IIoT To:SA2, RAN2 Cc:SA1

[R2-2100066](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100066.zip) LS on Clarification on URLLC QoS Monitoring (S2-2007825; contact: Huawei) SA2 LS in Rel-16 5G\_URLLC To:RAN3, CT4 Cc:SA5, RAN2

[R2-2100715](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100715.zip) Revised Rel-17 NR IIoT/URLLC Work Plan Nokia Work Plan Rel-17 NR\_IIOT\_URLLC\_enh

### 8.5.2 Enhancements for support of time synchronization

Including requirements and scope.

[R2-2100215](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100215.zip) Discussion on the time synchronisation enhancements Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100221](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100221.zip) Discussion on Time Synchronization in Rel-17 CATT discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2100232](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100232.zip) Propagation Delay Compensation Enhancements Ericsson discussion Rel-17

[R2-2100267](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100267.zip) Propagation Delay Compensation for TSN QUALCOMM Europe Inc. - Italy discussion Rel-17

[R2-2100327](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100327.zip) Further considerations on time synchronization and PDC ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion NR\_IIOT\_URLLC\_enh-Core R2-2009060

[R2-2100417](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100417.zip) Remaining aspect to support time synchronization Fujitsu discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core R2-2009130

[R2-2100425](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100425.zip) Some considerations on propagation delay compensation China Telecom discussion

[R2-2100615](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100615.zip) RAN Enhancements for Support of Timing Synchronization Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100716](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100716.zip) Time Synchronization Signalling and Mobility Impact Analysis Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2100781](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100781.zip) Discussion on uplink time synchronization for TSN NTT DOCOMO, INC. discussion Rel-17 R2-2010532

[R2-2100829](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100829.zip) Discussion on time sync maintenance during mobility vivo discussion

[R2-2100844](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100844.zip) Consideration of TSN time synchronization in handover scenario OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100941](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100941.zip) Propagation Delay Compensation for TSN CANON Research Centre France discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2101119](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101119.zip) Discussion on enabling UE side propagation delay compensation Lenovo, Motorola Mobility discussion Rel-17

[R2-2101322](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101322.zip) On propagation delay compensation MediaTek Inc. discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2101490](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101490.zip) Mobility aspects of time synchronization Sequans Communications discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core R2-2010173

[R2-2101666](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101666.zip) Propagation delay compensation and synchronization Samsung discussion Rel-17

[R2-2101671](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101671.zip) Mobility issue on time synchronization Beijing Xiaomi Mobile Software discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2101721](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101721.zip) Enhancements for support of time synchronization for TSN CMCC discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2101809](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101809.zip) Enhancements for support of time synchronization and PDC TCL Communication Ltd. discussion Rel-17

[R2-2101862](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101862.zip) Discussion on enhancements for support of time synchronization LG Electronics Inc. discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

### 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

[R2-2100214](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100214.zip) Uplink enhancements for URLLC in UCE Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100222](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100222.zip) Analysis on IIoT in Unlicensed Spectrum CATT discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2100233](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100233.zip) Harmonizing UL CG enhancements in NR-U and URLLC Ericsson discussion Rel-17

[R2-2100268](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100268.zip) CG Harmonization for Unlicensed Controlled Environment QUALCOMM Europe Inc. - Italy discussion Rel-17

[R2-2100717](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100717.zip) Support of URLLC in Unlicensed Spectrum Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2100758](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100758.zip) Transmission Handling in UCE Sharp discussion

[R2-2100759](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100759.zip) Autonomous transmission/Retransmission in Unlicensed Controlled Environments Sharp discussion

[R2-2100830](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100830.zip) Simultaneous configuration of LCH based prioritization and CGRT vivo discussion

[R2-2100891](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100891.zip) Consideration on URLLC over NR-U OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2100904 Considerations in unlicensed URLLC Sony discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core Withdrawn

[R2-2100905](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100905.zip) Prioritization of UL transmissions in unlicensed URLLC Sony discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100920](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100920.zip) CG Harmonization for NR-U and IIoT/URLLC in Unlicensed Controlled Environments III discussion NR\_IIOT\_URLLC\_enh

[R2-2100921](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100921.zip) Enhancements for URLLC in unlicensed controlled environments Lenovo, Motorola Mobility discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2101133 Enhancements for URLLC in unlicensed controlled environments Lenovo, Motorola Mobility discussion Rel-17 Late

=> Withdrawn

[R2-2101321](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101321.zip) Remaining issues on configured grant harmonization MediaTek Inc. discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core Late

[R2-2101508](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101508.zip) IIoT operation in unlicensed controlled environments InterDigital discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2101520](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101520.zip) IIOT CG operation on shared spectrum LG Electronics UK discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2101531](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101531.zip) Considerations on UL Enhancement on the shared spectrum Channel ZTE Corporation, Sanechips discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2101614](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101614.zip) Discussion on uplink enhancements for URLLC in unlicensed controlled environments CMCC discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2101667](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101667.zip) LCH based Prioritization in UCE Samsung discussion Rel-17

[R2-2101672](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101672.zip) LBT failure and LCH based priority Beijing Xiaomi Mobile Software discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2101757](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101757.zip) Uplink enhancements for URLLC in unlicensed controlled environments Intel Corporation discussion NR\_IIOT\_URLLC\_enh-Core

### 8.5.4 RAN enhancements based on new QoS

RAN enhancements based on new QoS related parameters if any, e.g. survival time, burst spread, decided in SA2. [RAN2, RAN3]

[R2-2100216](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100216.zip) RAN enhancements based on new QoS related parameters Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100223](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100223.zip) Discussion on Survival Time CATT discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2100234](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100234.zip) RAN enhancements based on new QoS related parameters Ericsson discussion Rel-17

[R2-2100269](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100269.zip) RAN Enhancement to support new QoS QUALCOMM Europe Inc. - Italy discussion Rel-17

[R2-2100328](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100328.zip) Further considerations on new QoS ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core R2-2009062

[R2-2100418](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100418.zip) Topics on new QoS handling Fujitsu discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100449](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100449.zip) Discussion on RAN enhancements based on Survival Time III discussion Rel-17 NR\_IIOT\_URLLC\_enh R2-2010438

[R2-2100614](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100614.zip) Support for Survival Time and Burst Spread Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100718](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100718.zip) Views on RAN Enhancement for New QoS Parameters Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2100831](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100831.zip) Disucussion on RAN enhancement to support survival time vivo discussion

[R2-2100856](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100856.zip) Scheduling Assistance Information for support of new QoS Apple discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100857](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100857.zip) Reliability enhancements for CG/SPS Apple discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100892](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100892.zip) RAN enhancement based on new QoS OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2100922](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100922.zip) Discussion on the support of survival time Lenovo, Motorola Mobility discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2101066](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101066.zip) Open issues with survival time and proposal for way forward Samsung Electronics GmbH discussion

R2-2101134 Discuss on the mechanism to guarantee the survival time Lenovo, Motorola Mobility discussion Rel-17 Late

=> Withdrawn

[R2-2101509](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101509.zip) Enhancements based on new QoS requirements InterDigital discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2101521](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101521.zip) Implication of survival time LG Electronics UK discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2101615](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101615.zip) Discussion on the support of new QoS parameters in RAN CMCC discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2101673](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101673.zip) RAN impacts of the survival time Beijing Xiaomi Mobile Software discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

## 8.6 Small Data enhancements

(NR\_SmallData\_INACTIVE-Core; leading WG: RAN2; REL-17; WID: RP-201305)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 3 threads

### 8.6.1 Organizational

In coming LSs, rapporteur input for email discussions summaires etc (tdocs in this don’t count towards tdoc limit).

[R2-2100930](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100930.zip) Report from email discussion [POST112-e][550][SDT] Further details of CG aspects Lenovo, Motorola Mobility report Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101162](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101162.zip) Email discussion summary #551: Common aspects between CG and RACH ZTE Corporation, Sanechips report

### 8.6.2 User plane common aspects

Overall user plane procedure for SDT (including triggering and thresholds). Handling of data arrival for other DRBs. Suppression of PDCP status report, any other user aspects included in [POST112-e][551] which cannot be concluded as part of the email

[R2-2100139](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100139.zip) Discussion on User Plane Aspect of Small Data Transmission vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100146](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100146.zip) User Plane Common Aspects of RACH and CG based SDT Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100282](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100282.zip) Discussion on SDT UP issues OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100294](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100294.zip) User plane common aspects of SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100365](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100365.zip) Common User plane aspects for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100419](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100419.zip) Identified issue in [Post111-e][926]: CA and PDCP CA duplication Fujitsu discussion Rel-17 NR\_SmallData\_INACTIVE-Core R2-2009132

[R2-2100749](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100749.zip) Handling of new arriving data during SDT NEC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101136](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101136.zip) The UP common issues for small data transmissions Lenovo, Motorola Mobility discussion Rel-17

[R2-2101145](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101145.zip) Handling of non-SDT DRB MediaTek Inc. discussion

[R2-2101160](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101160.zip) User plane common aspects of SDT ZTE Corporation, Sanechips discussion

[R2-2101176](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101176.zip) Common aspects for SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101183](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101183.zip) User plane common aspects for SDT Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101203](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101203.zip) User Plane common aspects Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101221](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101221.zip) Remaining issues on user plane aspects of NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101370](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101370.zip) Non-SDB handling during the SDT procedure Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101674](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101674.zip) Collision between SDT and RACH Beijing Xiaomi Mobile Software discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101750](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101750.zip) Handling non-SDT data arrival during subsequent SDT ASUSTeK discussion Rel-17 NR\_SmallData\_INACTIVE-Core

### 8.6.3 Control plane common aspects

Cell reselection and failure handling, handling of subsequent data transmissins (including when to send RRCRelease, how to indicate presence of subsequent data, etc) and any other control plane aspects included in [POST112-e][551] which cannot be concluded as part of the email

[R2-2100140](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100140.zip) Duscussion on RRC-Controlled Small Data Transmission vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100147](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100147.zip) Control Plane Common Aspects of RACH and CG based SDT Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100283](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100283.zip) Discussion on SDT CP issues OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100295](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100295.zip) Considerations on control plane common aspects CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100366](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100366.zip) Common Control plane aspects for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100668](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100668.zip) Discussion on the general aspects for small data transmission Spreadtrum Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100764](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100764.zip) Some open issues of SDT procedure Potevio Company Limited discussion NR\_SmallData\_INACTIVE-Core

[R2-2100817](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100817.zip) T319-like timer for the SDT procedure PANASONIC R&D Center Germany discussion

[R2-2100826](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100826.zip) Discussion on how to handle cell reselection for the case of SDT ITRI discussion NR\_SmallData\_INACTIVE-Core

[R2-2100906](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100906.zip) Discussion on subsequent SDT in NR, and timer handling Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101112](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101112.zip) Consideration on CP issues for small data transmission Lenovo, Motorola Mobility discussion Rel-17

[R2-2101146](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101146.zip) Subsequent Transmission of Small data in INACTIVE MediaTek Inc. discussion

[R2-2101161](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101161.zip) Control plane common aspects of SDT ZTE Corporation, Sanechips discussion

[R2-2101177](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101177.zip) CP aspects for SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101184](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101184.zip) Control plane common aspects for SDT Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101223](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101223.zip) Remaining issues on control plane aspects of NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101311](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101311.zip) SDT control plane aspects Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

[R2-2101368](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101368.zip) Subsequent data transmission for SDT Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101369](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101369.zip) Control plane aspects on SDT procedure Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101407](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101407.zip) RRC-less SDT NEC Telecom MODUS Ltd. discussion

[R2-2101507](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101507.zip) Subsequent small data transmission InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101513](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101513.zip) Subsequent data transmission and indication for non-SDT DRBs LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101578](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101578.zip) Small data transmission failure timer InterDigital, Asia Pacific Telecom, Ericsson, ETRI, FGI, Sharp, Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101619](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101619.zip) SDT type selection and switch procedure CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101675](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101675.zip) Discussion on the RRC-less SDT Beijing Xiaomi Mobile Software discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101867](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101867.zip) Handling of the subsequent data ITL discussion

[R2-2101947](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101947.zip) New timer for SDT failure detection LG Electronics Inc. discussion NR\_SmallData\_INACTIVE-Core

### 8.6.4 Aspects specific to RACH based schemes

RA resource configuration, RAN2 specific details of context fetch/data forwarding with and without anchor relocation

[R2-2100141](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100141.zip) Supporting Small Data Transmission via RA Procedure vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100148](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100148.zip) Details of RACH bsaed Small Data Transmission Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100284](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100284.zip) Discussion on RACH based SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100296](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100296.zip) Considerations on transition into RRC\_CONNECTED during subsequent SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100367](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100367.zip) Fallback, RACH resource partitioning and identification of SDT access Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100413](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100413.zip) Fallback issue for 2-step RA based small data transmission SHARP Corporation discussion NR\_SmallData\_INACTIVE-Core

[R2-2100669](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100669.zip) Discussion on small data transmission for RACH-based scheme Spreadtrum Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100907](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100907.zip) Discussion on context fetch and anchor relocation Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100908](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100908.zip) Details of RA-based schemes for SDT in NR Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101137](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101137.zip) Analysis on open issues of RA based SDT Lenovo, Motorola Mobility discussion Rel-17

[R2-2101159](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101159.zip) Consideration on RACH based small data transmission ZTE Corporation, Sanechips discussion

[R2-2101174](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101174.zip) RACH configuration for SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101204](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101204.zip) Details on RACH specific schemes Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101214](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101214.zip) Small data transmission with RA-based scheme Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101231](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101231.zip) Discussion on RACH based NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101505](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101505.zip) RACH-based SDT precedure InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101620](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101620.zip) Remaining issues on RACH based scheme CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101621](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101621.zip) Anchor relocation and context fetch CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101751](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101751.zip) Discussion on RO configuration between SDT and legacy RA ASUSTeK discussion Rel-17 NR\_SmallData\_INACTIVE-Core

### 8.6.5 Aspects specific to CG based schemes

Configuration of CG resources, Validity of CG resources, handling of beam selection for CG etc, any other aspects included in [POST112-e][550] which cannot be concluded as part of the email

[R2-2100142](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100142.zip) Supporting Small Data Transmission via CG Configuration vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100145](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100145.zip) Details of Configured Grant based Small Data Transmission Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100285](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100285.zip) Discussion on CG based SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100297](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100297.zip) Analysis on CG-based SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100368](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100368.zip) Handling of configured grant for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100420](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100420.zip) Open issue in [Post112-e][550][STD]: PDCCH monitoring Fujitsu discussion Rel-17 NR\_SmallData\_INACTIVE-Core R2-2009131

[R2-2100775](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100775.zip) Discussion on beam operations for small data enhancements Google Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100777](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100777.zip) Discussion on CG-based small data transmission Google Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100782](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100782.zip) Separate BWP for Small Data Transmission LG Electronics discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100784](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100784.zip) CG Resource validity and MAC PDU rebuilding on SDT LG Electronics discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2100909](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100909.zip) Details of CG-based scheme for SDT in NR Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101111](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101111.zip) Consideration on CG based small data transmission Lenovo, Motorola Mobility discussion Rel-17

R2-2101138 Consideration on CG based small data transmission Lenovo, Motorola Mobility discussion Rel-17 Late

=> Withdrawn

[R2-2101147](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101147.zip) Aspects specific to CG based schemes Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

[R2-2101151](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101151.zip) RRC-less SDT over CG MediaTek Inc. discussion R2-2009055

[R2-2101158](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101158.zip) Configured grant based small data transmission ZTE Corporation, Sanechips discussion

[R2-2101175](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101175.zip) Details of CG based SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101213](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101213.zip) Small data transmission with CG-based scheme Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101233](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101233.zip) Discussion on CG based NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101371](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101371.zip) CG based SDT procedure Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101466](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101466.zip) CG resource release for SDT ETRI discussion

[R2-2101506](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101506.zip) CG-based SDT selection and configuration InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101622](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101622.zip) Consideration on CG resource configuration CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101676](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101676.zip) Retransmission issue not included in the CG email discussion Beijing Xiaomi Mobile Software discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101752](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101752.zip) Beam selection for CG-SDT ASUSTeK discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101753](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101753.zip) Discussion on RNTI for CG-based SDT ASUSTeK discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2101835](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101835.zip) Discussion on CG-SDT configuration Asia Pacific Telecom, FGI discussion

[R2-2101837](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101837.zip) Beam operation for CG-SDT Asia Pacific Telecom, FGI discussion

## 8.7 NR Sidelink relay SI

(FS\_NR\_SL\_relay; leading WG: RAN2; REL-17; WID: RP-202208)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.7.1 Organizational

TR updates, rapporteur inputs, other organizational documents. Documents in this AI do not count towards the tdoc limitation.

[R2-2100070](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100070.zip) Reply LS to Reply LS on Direct Discovery and Relay (S2-2009229; contact: OPPO) SA2 LS in Rel-17 FS\_5G\_ProSe To:RAN2

[R2-2100112](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100112.zip) Work planning of R17 SL relay OPPO Work Plan Rel-17 FS\_NR\_SL\_relay

[R2-2100113](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100113.zip) TR 38.836 V1.0.1 OPPO draft TR Rel-17 38.836 1.0.1 FS\_NR\_SL\_relay

[R2-2100170](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100170.zip) Removal of comparison section from TR38.836 for SL Relay MediaTek Inc., OPPO, Interdigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100201](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100201.zip) [Draft] LS on Direct Discovery and Relay CATT LS out Rel-17 FS\_NR\_SL\_relay To:SA2

[R2-2101489](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101489.zip) Comparison of L2 and L3 Relay Architectures Futurewei, Huawei, HiSilicon, MediaTek, Apple, Interdigital, Convida Wireless discussion Rel-17 FS\_NR\_SL\_relay

### 8.7.2 Relaying Mechanisms and their characteristics

No documents should be submitted to 8.7.2. Please submit to 8.7.2.x.

#### 8.7.2.1 Layer 2 relay

Open issues and feasibility for layer 2 relay design.

This agenda item will use a summary document.

[R2-2100111](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100111.zip) Left issues on L2 Relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100124](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100124.zip) Remaining issues on L2 U2N relay Qualcomm Incorporated discussion Rel-17

R2-2100125 Remaining issues on service continuity of L2 U2N relay Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay Late

[R2-2100169](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100169.zip) Evaluation and Conclusion for L2 UE-to-Network Relay and L2 UE-to-UE Relay MediaTek Inc., Apple, Interdigital, Futurewei, Huawei, Hisilicon, Convida discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100202](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100202.zip) Feasibility for Layer2 Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100300](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100300.zip) Discussion on remaining issues on L2 UE-to-Network Relay ZTE Corporation discussion

[R2-2100520](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100520.zip) Remaining Control Plane Aspects for L2 Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100521](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100521.zip) Discussion on L2 Relay Architecture and QoS InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100535](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100535.zip) Further discussions on L2 SL relay Ericsson discussion Rel-17 FS\_NR\_SL\_relay R2-2009230

[R2-2100656](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100656.zip) Remaining issues for L2 relay Spreadtrum Communications discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100867](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100867.zip) Discussion on Layer 2 Solutions for UE-to-NW relay and UE-to-UE relay Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100910](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100910.zip) Remaining issues on L2 relay Sony discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101083](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101083.zip) L3 vs L2 relaying Samsung Electronics GmbH discussion Withdrawn

[R2-2101107](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101107.zip) Consideration on U2N relay and U2U relay Lenovo, Motorola Mobility discussion Rel-17

[R2-2101179](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101179.zip) Remaining issues on L2 U2N Relay vivo discussion Rel-17

[R2-2101206](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101206.zip) L3 vs L2 relaying Samsung, Ericsson, Nokia, Nokia Shanghai Bell discussion

[R2-2101300](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101300.zip) Inter-gNB Path Switching for L2 U2N Relay Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101601](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101601.zip) Open issues on L2 relay Xiaomi communications discussion

[R2-2101623](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101623.zip) Remaining issue on RRC state for L2 relay CMCC discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101754](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101754.zip) Discussion on CP protocol stack for L2 U2U relay ASUSTeK discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101768](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101768.zip) RRC status transition reporting procedure LG Electronics Inc discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101778.zip) Further consideration of relay selection and reselection criteria LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101782](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101782.zip) Clean-up of L2 sidelink relay Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101785](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101785.zip) Relay UE selection and reselection prioritization LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101788](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101788.zip) Relay reselection using discovery message and sidelink unicast link LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101890.zip) discussion on RRC procedures of L2 U2N relay ETRI discussion Rel-17 FS\_NR\_SL\_relay

#### 8.7.2.2 Layer 3 relay

Open issues and feasibility for layer 3 relay design.

This agenda item will use a summary document.

[R2-2100110](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100110.zip) Left issues on L3 Relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100122](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100122.zip) Remaining issues of L3 relay Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100203](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100203.zip) Feasibility for Layer3 Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100301](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100301.zip) Consideration on QoS of L3 relay ZTE Corporation discussion

[R2-2100548](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100548.zip) QoS for L3 UE-to-Network Relay Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100549](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100549.zip) Path switching enhancement for L3 UE-to-Network relay Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101009](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101009.zip) Remaining Open Issues for L3 Relay Fraunhofer HHI, Fraunhofer IIS discussion Rel-17

[R2-2101178](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101178.zip) L3 SL Relay Architecture vivo discussion Rel-17

[R2-2101781](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101781.zip) Evaluation and conclusion for L3 sidelink relay Huawei, HiSilicon, MediaTek Inc., Interdigital, Apple, Futurewei, Convida Wireless, Spreadtrum Communications discussion Rel-17 FS\_NR\_SL\_relay

### 8.7.3 Discovery model/procedure for sidelink relaying

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2100100](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100100.zip) Remaining issues of Relay discovery and (re)selection OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100126](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100126.zip) Remaining issues on discovery and relay (re)selection Qualcomm Incorporated discussion Rel-17

[R2-2100152](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100152.zip) Proposal of items to be examined on discovery and relay (re-)selection for UE-to-UE relay in WI phase Mitsubishi Electric Co. discussion Rel-17

[R2-2100204](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100204.zip) Miscellaneouse Issues on Relay Discovery CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100308](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100308.zip) Discussion on remaining issues for sidelink discovery ZTE Corporation discussion

[R2-2100522](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100522.zip) Discovery Procedure for sidelink relay InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100533](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100533.zip) Remaining aspects for discovery Ericsson discussion Rel-17 FS\_NR\_SL\_relay R2-2009228

[R2-2100534](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100534.zip) Remaining aspects for relay (re)selection Ericsson discussion Rel-17 FS\_NR\_SL\_relay R2-2009229

[R2-2100624](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100624.zip) On SL discovery for relaying Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100658](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100658.zip) Discussion on remaining issues on relay discovery Spreadtrum Communications discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100707](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100707.zip) Relay reselection based on discovery Kyocera discussion Rel-17

[R2-2100726](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100726.zip) Relay discovery considerations Kyocera discussion Rel-17

[R2-2100804](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100804.zip) Discussion on sidelink relay discovery SHARP Corporation discussion

[R2-2100868](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100868.zip) Discussion on remaining issues on relay discovery Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100924](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100924.zip) Protocol stack for discovery message Samsung Electronics discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100925](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100925.zip) Clarification on AS layer differentiation for discovery message Samsung Electronics discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100926](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100926.zip) Discovery configuration for Remote UE out of coverage Samsung Electronics discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101108](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101108.zip) Relay Discovery in L2 and L3 relay case Lenovo, Motorola Mobility discussion Rel-17

[R2-2101181](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101181.zip) Remaining issues of sidelink relay discovery procedure vivo discussion Rel-17

[R2-2101211](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101211.zip) UE-to-Nwk Relay Discovery and (Re)selection for Path Switching in SL Relay Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101597](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101597.zip) Discussion on relay discovery regarding non SL relay capable gNB Xiaomi communications discussion

[R2-2101624](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101624.zip) Relay discovery and (re)selection CMCC discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101783](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101783.zip) Discussion on the discovery procedure Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

### 8.7.4 Other

Including any remaining open issues on topics without separate agenda items.

This agenda item will use a summary document.

[R2-2100109](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100109.zip) Left issues on Scenario and L23 accessment OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100123](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100123.zip) Finalize the comparison and conclusion section of TR 38.836 Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100171](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100171.zip) Discussion on Remote UEs in RRC Inactive MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100205](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100205.zip) Further Clarification on the Sidelink Relay Scenario CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100309](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100309.zip) Comparison of L2 and L3 Relay ZTE Corporation discussion

[R2-2100444](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100444.zip) Remote UE connectivity MediaTek Inc. discussion Rel-17

[R2-2100523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100523.zip) Relay selection and reselection InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100550](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100550.zip) Open Issues on NR Sidelink Relaying Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2100616](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100616.zip) Conclusion on the feasibility of L2 and L3 based Sidelink Relaying Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100625](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100625.zip) Further details on relay reselection Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2100980](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100980.zip) Comparative analysis of L2 and L3 SL Relay architecture Ericsson, Samsung, Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101180](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101180.zip) Consideration on Control Plane messages transmission path for remote UE vivo, Philips, Lenovo, Motorola Mobility, AT&T discussion Rel-17

[R2-2101210](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101210.zip) SI acquisition, CN Registration and RNAU Lenovo, Motorola Mobility discussion FS\_NR\_SL\_relay

[R2-2101325](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101325.zip) Support of idle mode mobility for remote-UE in SL UE-to-Nwk relay Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2101453](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101453.zip) Providing Reliability and Coverage using Relays Lenovo, Motorola Mobility, Philips, AT&T, Fujitsu discussion FS\_NR\_SL\_relay

[R2-2101784](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101784.zip) Consideration on relay selection and reselection 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)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.8.1 Organizational

Including LSs, TR updates and any other rapporteur input.

Including outcome of [Post112-e][253][RAN slicing] Prioritized solutions for RAN slicing (CMCC)

Including outcome of [Post112-e][252][RAN slicing] Capture RAN slicing agreements into TR 38.832 (CMCC)

[R2-2100035](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100035.zip) Reply LS on Cell Configuration within TA/RA to Support Allowed NSSAI (R3-207147; contact: Nokia) RAN3 LS in Rel-17 FS\_eNS\_Ph2 To:SA2 Cc:RAN2, CT1

[R2-2100048](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100048.zip) Response to restricting the rate per UE per network slice (R3-207230; contact: ZTE) RAN3 LS in Rel-17 FS\_NR\_slice To:SA2, RAN2

[R2-2100050](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100050.zip) Response to LS Reply on Enhancement of RAN Slicing (R3-207236; contact: CMCC, ZTE) RAN3 LS in Rel-17 FS\_NR\_slice To:SA2, SA5 Cc:RAN2

[R2-2100546](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100546.zip) Discussion on slicing related reply LSs (R2-2008759 and R2-2010694) Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_slice

[R2-2100766](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100766.zip) Cell configuration within TA/RA to Support Allowed NSSAI LG Electronics UK discussion Rel-17

[R2-2100893](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100893.zip) Discussion on SA2 LS OPPO discussion Rel-17 FS\_NR\_slice

[R2-2101061](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101061.zip) Considerations on scenarios and solution space of RAN slicing enhancements Lenovo, Motorola Mobility discussion Rel-17 FS\_NR\_slice R2-2009669

[R2-2101293](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101293.zip) UE slice MBR enforcement in RAN Ericsson discussion Rel-17 FS\_NR\_slice

[R2-2101487](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101487.zip) Rel-15/16 Status of Cell Configuration on Network Slicing Futurewei discussion Rel-17 FS\_NR\_slice

[R2-2101488](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101488.zip) DRAFT Reply LS on Cell Configuration within TA/RA to Support Allowed NSSAI Futurewei LS out Rel-17 FS\_NR\_slice, FS\_eNS\_Ph2 To:SA2, RAN3, CT1

[R2-2101800](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101800.zip) Revised Work Plan for RAN Slicing CMCC Work Plan Rel-17 FS\_NR\_slice

[R2-2101801](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101801.zip) Draft TR 38.832 v040 CMCC draft TR Rel-17 38.832 0.4.0 FS\_NR\_slice

[R2-2101802](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101802.zip) Report of [Post112-e][253][RAN slicing] Prioritized solutions for RAN slicing CMCC discussion Rel-17 FS\_NR\_slice

[R2-2101803](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101803.zip) Draft TP for TR 38.832 v040 CMCC discussion Rel-17 FS\_NR\_slice

[R2-2101933](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101933.zip) Draft reply LS on Cell Configuration within TARA to Support Allowed NSSAI ZTE corporation, Sanechips LS out Rel-17 FS\_NR\_slice To:SA2 Cc:CT1, RAN3

### 8.8.2 Slice based cell reselection under network control

Including discussion on proposals to address the issues for cell reselection identified in email discussion and whether or to which extent existing mechanisms can address them

[R2-2100128](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100128.zip) Discussion on candidate solutions of slice-based cell (re)selection Qualcomm Incorporated discussion Rel-17 FS\_NR\_slice

[R2-2100249](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100249.zip) 5G RAN Slicing Framework During Cell Selection / Reselection Phases MITRE Corporation discussion

[R2-2100362](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100362.zip) Different slice availability in registration area Intel Corporation discussion Rel-17 FS\_NR\_slice

[R2-2100489](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100489.zip) Cell (re)selection based on preferred frequency(s) per slice Beijing Xiaomi Software Tech discussion Rel-17

[R2-2100547](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100547.zip) Discussion on cell selection and reselection for slicing Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_slice

[R2-2100646](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100646.zip) Considerations on contents of slice related cell selection info KDDI Corporation discussion

[R2-2100660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100660.zip) Discussion on the awareness of intended slice for MT service Spreadtrum Communications discussion Rel-17 FS\_NR\_slice

[R2-2100661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100661.zip) Discussion on slice based cell (re)selection Spreadtrum Communications discussion Rel-17 FS\_NR\_slice

[R2-2100704](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100704.zip) Remaining issues on slice-based (re)-selection vivo discussion Rel-17 FS\_NR\_slice

[R2-2100762](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100762.zip) Discussion on slice based cell selection and reselection China Telecommunications discussion Rel-17

[R2-2100767](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100767.zip) Broadcast information for slice aware cell selection/cell reselection LG Electronics UK discussion Rel-17

[R2-2100768](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100768.zip) Further discussion on intended slices LG Electronics UK discussion Rel-17

[R2-2100876](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100876.zip) Discussion on slice based cell selection and re-selection Apple discussion Rel-17 FS\_NR\_slice

[R2-2100877](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100877.zip) RAN slicing in shared network Apple discussion Rel-17 FS\_NR\_slice

[R2-2100894](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100894.zip) Consideration on slice-specific cell (re)selection OPPO discussion Rel-17 FS\_NR\_slice

[R2-2100927](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100927.zip) Clarification for slice related cell selection info in SIB Samsung Electronics discussion Rel-17 FS\_NR\_slice

[R2-2100928](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100928.zip) Slice related cell reselection info in RRCRelease Samsung Electronics discussion Rel-17 FS\_NR\_slice

[R2-2100964](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100964.zip) Slice based Cell Reselection under Network Control CATT discussion FS\_NR\_slice

[R2-2101194](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101194.zip) Consideration on slice specific cell selection and reselection ZTE corporation, Sanechips discussion Rel-17 FS\_NR\_slice

[R2-2101212](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101212.zip) Access to an Intended Slice Lenovo, Motorola Mobility discussion FS\_NR\_slice

[R2-2101294](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101294.zip) Network slice support in cells Ericsson discussion Rel-17 FS\_NR\_slice

[R2-2101295](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101295.zip) TP: Solution 1 and 2 for fast access to slice Ericsson discussion Rel-17 FS\_NR\_slice

[R2-2101394](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101394.zip) Slice-specific system information for cell selection and reselection Google Inc. discussion Rel-17 FS\_NR\_slice

[R2-2101699](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101699.zip) Slice based Cell (re)selection under network control Huawei, HiSilicon discussion Rel-17 FS\_NR\_slice

[R2-2101700](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101700.zip) Discussion on the SA2 incoming LS on Cell Configuration within TA/RA to Support Allowed NSSAI Huawei, HiSilicon discussion Rel-17 FS\_NR\_slice

[R2-2101804](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101804.zip) Discussion on SA2 LS, potential solutions and draft TP for slice-based cell (re)selection CMCC discussion Rel-17 FS\_NR\_slice

### 8.8.3 Slice based RACH configuration or access barring

Including discussion on proposals to address the issues for RACH/access barring identified in email discussion and whether or to which extent existing mechanisms can address them

[R2-2100129](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100129.zip) Discussion on candidate solutions of slice-based RACH Qualcomm Incorporated discussion Rel-17 FS\_NR\_slice

[R2-2100363](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100363.zip) Consideration of slice based RACH Intel Corporation discussion Rel-17 FS\_NR\_slice

[R2-2100424](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100424.zip) Considerations on the solutions of slice based RACH configuration Beijing Xiaomi Software Tech discussion Rel-17

[R2-2100599](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100599.zip) RACH prioritisation for slices Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_slice

[R2-2100662](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100662.zip) Consideration on slice based RACH configuration Spreadtrum Communications discussion Rel-17 FS\_NR\_slice

[R2-2100705](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100705.zip) Remaining issues on RACH configuration vivo discussion Rel-17 FS\_NR\_slice

[R2-2100878](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100878.zip) Discussion on slice based RACH and cell barring Apple discussion Rel-17 FS\_NR\_slice

[R2-2100895](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100895.zip) Consideration on slice-specific RACH OPPO discussion Rel-17 FS\_NR\_slice

[R2-2100929](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100929.zip) Consideration on slice-specific separate RACH resources pool Samsung Electronics discussion Rel-17 FS\_NR\_slice

[R2-2101062](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101062.zip) Considerations on solutions for slice-specific RACH configuration Lenovo, Motorola Mobility discussion Rel-17 FS\_NR\_slice

[R2-2101195](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101195.zip) Consideration on the slice specific RACH configuration ZTE corporation, Sanechips discussion Rel-17 FS\_NR\_slice

[R2-2101405](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101405.zip) RSRP Thresholds for RACH separation and prioritisation for numerous slice configurations NEC Telecom MODUS Ltd. discussion

[R2-2101701](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101701.zip) Slice based RACH configuration Huawei, HiSilicon discussion Rel-17 FS\_NR\_slice

[R2-2101805](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101805.zip) Solutions analysis and draft TP for slice-based RACH configuration CMCC 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)

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

AT-meeting email discussions defined after on-line treatment.

### 8.9.1 Organizational Scope and Requirements

E.g. Rapporteur input

[R2-2100029](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100029.zip) LS on Paging Enhancement (R1-2009801; contact: MediaTek) RAN1 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN2

- MTK point out that R1 considered equal paging rate, and think some ppl may see additional gain for other scenarios.

- QC think that the results dep on the assumptions and think the reason for the low gains on cross carrier scheduling is due to the assumptions not taking into account realistic implementations.

- MTK think R1 already take into acct the cross carrier scheduling, but the offset is not sufficient to give sufficient gain, should look at early indication.

- Oppo agrees that in R1 sim the offset is not sufficient to give the gain, and with better assumptions the gain should be similar to early indication.

- Ericsson think these are indication and the range of numbers is quite wide, and certain aspects seems to have not been analysed.

* Noted

[R2-2100030](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100030.zip) LS on signalling method for TRS/CSI-RS occasion(s) for idle/inactive UE(s) (R1-2009848; contact: Samsung) RAN1 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN2

- Will take into acct

* Noted

### 8.9.2 Idle/inactive-mode UE power saving

Including outcome of [Post112-e][064][Pow17] Paging subgroup determination (Intel)

[R2-2100389](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100389.zip) Report of [POST112-e][064][Pow17] Group Determination (Intel) Intel Corporation discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

DISCUSSION

- MTK wonder how we can proceed. Ericsson agrees that there are many opponents for each proposal.

- Intel think that the concern for 2 is mainly due to UE updating paging probability quite often. For 6 the main drawback are concerns that the benefits are not enough.

- Intel explains that we are not increasing the paging occasions, but we can increase how the UEs are spread by the hashing function.

- Ericsson think paging probability is too complex.

- Ericsson think we should clarify P1 a bit.

- vivo think R1 recommend PEI for paging enhancement, think that the additional gain is not significant.

- Apple agrees that UE ID is a basis, but think we can have other method. Apple don’t understand how the Paging probability will work. CN/RAN diff can work in addition to what we have.

- QC think the UE ID is the only proposal that has majority support. Should focus on how to have further subgroups within a paging occasion based on UE-ID.

- Sequans agree that UE ID is a baseline. Pont out that for IoT there was a two level approach where first level use UE ID and other aspects in the second step and think that e.g. for Redcap UEs there could be good saving for this. Think that we can have a online discussion on network provided ID.

- LG agrees with P2, but not all UEs are tolerant for paging delay which should be take into account. For CN/RAN diff think that there is gain only in some specific cases and don’t think this should be done. Don’t support 6

- CMCC think that the power condition of the UE is the most significant aspect for selecting UEs for power saving.

- Huawei think UE ID on its own itn’e enough and wonder what the paging probability means, Huawei think UEs with low paging probability are the most sensitives to power consumption, and think this is not updated very often, it is almost a UE characteristic.

- Nokia are ok with only UE ID approach. Nokia think that CN and RAN would be at the same time.

- Samsung think R1 evaluated subgrouping and think there are benefits, and would like to support both UE ID and (6), as this can reduce the paging for Idle UEs.

- MTK think that subgrouping is there in order to help some UEs save power, not for all UEs, e.g. as CMCC and Huawei point out, and think network assignment could be looked at, similar to sequans. Proposes to consider network assigned method similar to LTE IoT, which can allow to take several aspects into account.

- Oppo think that multiple schemes could be complex for the UE implementation and would be OK to only consider UE ID. Considering Huawei comment that low PP and high sensitivity to power consumption may not apply to e.g. wearables.

- CATT also support P1 and think a key point is to distribute the UE as much as possible. CATT also think that PEI hasn’t been designed yet so we don’t know how many bits we can have on top of UE ID.

- Lenovo support UE ID as baseline and support Paging probability as well.

- Xiaomi think that because R1 show low gains but are open to paging prob can be used for e.g. redcap UEs.

- Sony support in general this discussion but wonder why it would be good to mix IoT and other UEs in the same groups, think this can be support by a single mechanism .

- Intel think that network assigned should be considered further as it can take into account further method.

- Chair think that if going further than UE ID, we either need to base this on another shared UE / Network parameter (or at least some shared knowledge), or a network configured parameter.

* Noted

[R2-2101301](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101301.zip) Network assigned subgrouping Intel Corporation discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

- Proposes to make use of a network configured parameter. How this is used can be further discussed, in this proposal example it is used just in further hashing.

- Intel clarifies that it can be used e.g. for paging probability based grouping but also other aspects can be taken into account.

- vivo wonder how this works when UE moves from one cell to another and same question for Inter RAT. Intel assumes that the paging strategy is the same across the paging area, so there is no issue, network and UE are synched. Intel think that Inter RAT requires reregistration.

- Lenovo think that this method has some restriction that NB need to have the same configurations, so the UE can be configured differently by different NB. Intel think that the network will have the same knowledge of the configured parameter in all cases so paging will not be missed.

- Xiaomi wonder which network node assigns this parameter? Can it be the Core Network? That may be less complex.

- MTK believe that the network assigned ID can be consistent in the registration area, think that this is two step both UE ID and network assigned parameter to select PEI group set. The Assigned parameter or group id can be assigned by the core network.

- Nokia think this cannot be agreed this meeting as it is unclear how this will work.

- QC also has concerns about network assigned parameter, and think that if both CN and RAN/UE is impacted then the probability of adoption is low. Think just further hashing based on UE ID is sufficient.

- Ericsson has mixed feelings about this approach. Are not sure whether RAN or Cn should assign this. Think that the RAN assigned ID has issues and CN assigned ID has impact on Cn and would need to digest this option a bit.

- Apple think the network assigned ID is good and can be consistent across a reg area, and think that this additional level will help the UEs in saving power.

- Sequans think that this is similar to other cases of subgrouping except CN/RAN paging which can be just a bit, but opens the question how this can be done, e.g. in the RAN and support continued work on this.

- Samsung think that for CN paging, an id will be assigned by CN, Ran paging don’t know, think assistance info may need to exchanged.

- LG think that both UE and Network can independently calculate e.g. paging probability based on history, and questions the need for a shared parameter for further subgrouping.

- ZTE think that UE and network need to be aligned on the grouping parameter and think that if UE and network derives the paging parameter there may be issues. can use the IoT method from EUTRA with a CN assigned parameter, and for that theer is also a threshold.

- CATT think these methods are a one fits all, we should also have the UE ID in this method. Think this is very flexible but this put the burden on the network. Thin there is no benefits shown. Not sure about this.

- CMCC agreed to have network configured parameter, think we should focus on specific UE groups, can focus on some specific methods to derive the parameter.

- BT think that any method that involves the core network has less chance and think we need to see how this works inter-vendor.

- vivo think we should decide whether we need the additional UE subgrouping.

- Lenovo think that the issue of UE moving should be taken into account. Chair think we can also look at e.g. methods for enhanced paging strategy.

- Oppo doesn’t know how this can work. Chair think there was two ways in the discussion a) just use the parameters in the hashing, b) two step approach use UE ID in a frist step and the new parameter in a second step

- Ericsson think a proposal from Samsung should be included. In 0144

FOR BOTH DOCS ABOVE

* There is support to have UE ID based enhancement
* There is still significant interest to have other additional methods (but also some concerns). The approach to have a single mechanism that can take several aspects into account can be a way forward. There are still questions on the details, e.g. whether CN or RAN would provide a parameter.

Chair: Plan to make decisions at next meeting this topic is treated, so companies that have preferences for certain methods need to clearly explain justifications.

- MTK think that the study phase is supposed to be concluded at this meeting.

[R2-2100143](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100143.zip) Paging Enhancements\_UE Grouping Samsung Electronics Co., Ltd discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100144](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100144.zip) Paging Enhancements\_DRX cycle for monitoring paging Samsung Electronics Co., Ltd discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100153](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100153.zip) Discussion on paging enhancement for power saving OPPO discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100298](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100298.zip) Considerations on UE grouping mechanism with Paging Enhancement CATT discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100313](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100313.zip) Power saving enhancements for paging reception Qualcomm Incorporated discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100390](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100390.zip) Discussion on paging enhancement Xiaomi Communications discussion Rel-17

[R2-2100457](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100457.zip) Paging enhancement in idle inactive mode for power saving vivo discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core R2-2009083

[R2-2100682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100682.zip) Paging Enhancements for UE Power Savings Convida Wireless discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core R2-2010079

[R2-2100852](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100852.zip) NR UE Power Save Paging IDLE/INACTIVE UE Grouping Schemes Apple discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100911](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100911.zip) Discussion on enhancements for idle/inactive-mode UE power saving Sony discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100993](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100993.zip) UE subgrouping for paging enhancement LG Electronics Inc. discussion Rel-17

[R2-2100994](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100994.zip) draft LS on Paging Enhancement for UE power saving LG Electronics Inc. LS out Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN1

[R2-2101115](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101115.zip) Consideration on Idle/inactive-mode UE power saving Lenovo, Motorola Mobility discussion Rel-17

[R2-2101148](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101148.zip) Detail on paging sub-grouping indication and determination Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2101274](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101274.zip) Paging enhancements for idle/inactive mode UE Huawei, HiSilicon discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2101539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101539.zip) UE-Group Paging Early Indication MediaTek Inc. discussion

[R2-2101738](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101738.zip) Paging enhancements Ericsson discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core R2-2009955

[R2-2101841](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101841.zip) Paging Enhancements for Power Saving Asia Pacific Telecom, FGI discussion

[R2-2101887](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101887.zip) Considerations on UE paging enhancement CMCC discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2101895](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101895.zip) Further discussion on UE grouping ZTE corporation, Sanechips discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

### 8.9.3 Other aspects RAN2 impacts

Can discuss this by email

- Ericsson think availability signalling need to wait for R1. Chair agrees that if availability signalling is discussed the outcome will anyway be conditional to R1.

- Xiaomi and Apple think we can discuss the signalling and config aspects.

* [AT113-e][041][ePowSav] TRS/CSI-RS for IDLE INACTIVE (Xiaomi)

Scope: Take the documents in 8.9.3 into account, except availability signalling which is postponed. Collect comments, determine agreeable points, open points and their main options and related justifications.

Intended outcome: Report, Agreements (if possible).

Deadline: Thursday Feb 4 UTC 1100: Deadline for comments on agreements. Deadline for other aspects: EOM

DISCUSSION

- Chair: this topic was treated initially at this meeting, only by email.

- [041] Chairman Observation: For further RAN2 progress, more information is required, on the expected dynamic characteristics of transmission of TRS\_CSI-RS, e.g. addition/change/removal/start/stop, and on the details of the required TRS\_CSI-RS information (what need to be configured and what is the data size of the configuration).

* [041] On signalling providing the configuration of TRS/CSI-RS occasion(s) for idle/inactive UE(s):

SIB signalling is the baseline;

Other dedicated high-layer signalling methods (e.g., dedicated RRC, RRC release message, etc.) can be additionally considered with justification. It is assumed they do not work alone.

* [041] RAN2 will down select from the following options on SIB signalling providing the configuration of TRS/CSI-RS occasion(s) for idle/inactive UE(s):

Option 2: Existing SIB, other than SIB1;

Option 3: New SIB type, e.g. SIB-x;

[R2-2100458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100458.zip) RAN2 impacts on TRS/CSI-RS in idle inactive mode vivo discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100816](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100816.zip) TRS/CSI-RS for idle and inactive mode UE SHARP Corporation discussion

[R2-2100912](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100912.zip) Discussion on TRS/CSI-RS configuration of idle/inactive-mode UEs Sony discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2101275](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101275.zip) On potential TRS/CSI-RS for idle/inactive mode UE Huawei, HiSilicon discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2101310](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101310.zip) Potential TRS/CSI-RS occasion(s) Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2101739](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101739.zip) TRS/CSI-RS exposure Ericsson discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core R2-2009956

[R2-2101888](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101888.zip) Considerations on TRS CSI-RS occasion(s) for idle inactive UE(s) CMCC discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100853](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100853.zip) NR UE Power Save TRS/CSI-RS Signaling for IDLE/INACTIVE UEs Apple discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100154](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100154.zip) Discussion on signaling aspects of TRS/CSI-RS occasion(s) for idle/inactive Ues OPPO discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100299](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100299.zip) Considerations on configuration of TRS/CSI-RS CATT discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2100345](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100345.zip) Discussion on TRS CSI-RS for RRC-IDLE and RRC-INACTIVE State UE Xiaomi Communications discussion

[R2-2101302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101302.zip) TRS/CSI-RS configuration and availability for idle/inactive-mode UE Intel Corporation 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-202908)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 4-5 threads

[R2-2100229](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100229.zip) Stage 2 Running CR 38.300 NR-NTN THALES draftCR Rel-17 38.300 16.4.0 NR\_NTN\_solutions

[R2-2101277](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101277.zip) [DRAFT] Reply LS on SA WG2 assumptions AN-PDB and PER targets for satellite access THALES LS out Rel-17 NR\_NTN\_solutions To:SA2 Cc:RAN1

### 8.10.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

Including the outcome of [Post112-e][150][NTN] Stage 2 running CR (Thales)

[R2-2100033](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100033.zip) Reply LS on LS on signalling of satellite backhaul connection (R3-207060; contact: Huawei) RAN3 LS in Rel-17 5GSAT\_ARCH To:SA2 Cc:RAN2, RAN1

[R2-2100067](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100067.zip) AN-PDB and PER targets for satellite access (S2-2009225; contact: Quacomm) SA2 LS in Rel-17 5GSAT\_ARCH To:RAN1, RAN2 Cc:RAN3

[R2-2100330](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100330.zip) Discussion on geographical fixed CGI CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100331](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100331.zip) [Draft] Reply LS on SA WG2 assumptions from conclusion of study on architecture aspects for using satellite access in 5G CATT LS out Rel-17 NR\_NTN\_solutions-Core, 5GSAT\_ARCH To:RAN3, SA2 Cc:SA3-LI, SA5

[R2-2100540](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100540.zip) Stage-3 running RRC CR for NTN Rel-17 Ericsson draftCR Rel-16 38.331 16.3.1 NR\_NTN\_solutions-Core

[R2-2100582](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100582.zip) NR-NTN: Cell ID Handling Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2100746](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100746.zip) [Draft] Reply LS on SA WG2 assumptions from conclusion of study on architecture aspects for using satellite access in 5G Qualcomm Incorporated LS out Rel-17 NR\_NTN\_solutions-Core To:RAN3, SA2 Cc:SA3-LI, SA5

[R2-2100747](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100747.zip) [Draft] Reply LS on AN-PDB and PER targets for satellite access Qualcomm Incorporated LS out Rel-17 NR\_NTN\_solutions-Core To:SA2, RAN1

[R2-2101198](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101198.zip) Running CR to 38.304 for NTN ZTE corporation, Sanechips draftCR Rel-17 38.304 16.3.0 NR\_NTN\_solutions-Core

[R2-2101199](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101199.zip) Understanding on the AN-PDB and PER targets for satellite access ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101200](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101200.zip) Draft reply LS on the AN-PDB and PER targets for satellite access ZTE corporation, Sanechips LS out Rel-17 NR\_NTN\_solutions-Core To:SA2 Cc:RAN1, RAN3

[R2-2101608](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101608.zip) Discussion on RAN3 LS about architecture aspects for using satellite access in 5G CMCC discussion Rel-17 NR\_NTN\_solutions-Core

### 8.10.2 User Plane

[R2-2101576](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101576.zip) MAC open issues InterDigital discussion Rel-17 NR\_NTN\_solutions-Core Late

[R2-2101577](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101577.zip) Stage 3 running CR 38.321 InterDigital discussion Rel-17 NR\_NTN\_solutions-Core Late

#### 8.10.2.1 RACH aspects

[R2-2100158](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100158.zip) Discussion on RACH in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100178](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100178.zip) TA related issues Beijing Xiaomi Mobile Software discussion Rel-17

[R2-2100251](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100251.zip) RACH Aspects for an NTN- Observations and Proposals Samsung Research America discussion Rel-17

[R2-2100332](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100332.zip) Discussion on HARQ Aspects in NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100333](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100333.zip) Discussion on left issues of RACH in NR NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100379](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100379.zip) Pre-compensation for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100415](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100415.zip) Considerations on RACH procedure enhancements in NTN CAICT discussion

[R2-2100663](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100663.zip) Discussion on Random Access in NTN Spreadtrum Communications discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100740](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100740.zip) Details of the start offset in Random Access procedure Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100828](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100828.zip) Discussion on NTN TA pre-compensation ITRI discussion NR\_NTN\_solutions-Core

[R2-2100884](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100884.zip) On Preamble Ambiguity in Non Terrestrial Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100998.zip) Remaining issues on RACH in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101048](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101048.zip) Discussion on 2-Step RACH adaptation in NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core R2-2009981

[R2-2101125](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101125.zip) Considerations on RA type selection and switching in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2101126](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101126.zip) Preamble ambiguity for UE without TA pre-compensation capability Lenovo, Motorola Mobility discussion Rel-17

[R2-2101297](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101297.zip) Enhancements for NTN on MAC Layer THALES discussion R2-2009063

[R2-2101404](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101404.zip) Support of UEs with different pre-compensation capabilities NEC Telecom MODUS Ltd. discussion

[R2-2101494](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101494.zip) On Random Access in NTNs Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101575](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101575.zip) RACH aspects InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101582](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101582.zip) Discussion on random access aspects LG Electronics Inc. discussion NR\_NTN\_solutions-Core

[R2-2101584](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101584.zip) Considerations on Random Access in NTN ZTE Corporation, Sanechips discussion Rel-17

[R2-2101790](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101790.zip) NTN 2-step RACH selection enhancements Convida Wireless discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101833](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101833.zip) Enhancements on RACH in NTN Asia Pacific Telecom, FGI discussion

#### 8.10.2.2 Other MAC aspects

Including the outcome of [Post112-e][152][NTN] UL scheduling enhancements (Oppo)

[R2-2100159](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100159.zip) Discussion on MAC timers in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100160](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100160.zip) HARQ impact on DRX and LCP in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100161](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100161.zip) Report of [Post112-e][152][NTN] UL scheduling enhancements OPPO report Rel-17 NR\_NTN\_solutions-Core

[R2-2100179](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100179.zip) HARQ related issues Beijing Xiaomi Mobile Software discussion Rel-17

[R2-2100252](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100252.zip) Miscellaneous MAC Aspects for an NTN- Observations and Proposals Samsung Research America discussion Rel-17

[R2-2100261](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100261.zip) On Disabling uplink HARQ retransmission and Associated LCP Impacts MediaTek Inc. discussion

[R2-2100262](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100262.zip) Round trip delay offset for configured grant timers MediaTek Inc. discussion

[R2-2100334](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100334.zip) Discussion on UL Scheduling Enhancements in NR NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100381](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100381.zip) HARQ issues for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100416](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100416.zip) Considerations on MAC timers in NTN CAICT discussion

[R2-2100664](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100664.zip) Discussion on HARQ and related timers Spreadtrum Communications discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100741](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100741.zip) Support of disabling UL HARQ retransmission Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100881](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100881.zip) On User Plane Latency Reduction Mechanisms in Non Terrestrial Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100914](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100914.zip) Other MAC enhancements in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100999](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100999.zip) Further consideration on HARQ and LCP in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101057.zip) Discussion on HARQ uplink retransmission signalling in NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101063](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101063.zip) On UL scheduling enhancements and UE-calculated TA report in NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101067](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101067.zip) Discussion on DRX operation associated with blind retransmission PANASONIC R&D Center Germany agenda R2-2008936

[R2-2101118](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101118.zip) Discussion on DRX for NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2101254](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101254.zip) Enhancements on UL scheduling for NTN THALES discussion Rel-17 R2-2009064

[R2-2101493](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101493.zip) On scheduling, HARQ, and DRX for NTNs Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101573](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101573.zip) HARQ timer aspects InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101580](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101580.zip) Discussion on scheduling enhancement LG Electronics Inc. discussion NR\_NTN\_solutions-Core

[R2-2101583](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101583.zip) Discussion on disabling HARQ feedback and uplink retransmission LG Electronics Inc. discussion NR\_NTN\_solutions-Core

[R2-2101585](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101585.zip) Considerations on HARQ in NTN ZTE Corporation, Sanechips discussion Rel-17

[R2-2101716](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101716.zip) Outstanding Left-Issues for HARQ operation in NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

R2-2101814 UE calculated TA report Asia Pacific Telecom co. Ltd discussion Withdrawn

[R2-2101823](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101823.zip) UE calculated TA report Asia Pacific Telecom, FGI discussion

#### 8.10.2.3 RLC and PDCP aspects

[R2-2100253](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100253.zip) RLC and PDCP Aspects for an NTN- Observations and Proposals Samsung Research America discussion Rel-17

[R2-2100357](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100357.zip) Remaining Issues in RLC/PDCP Aspects of NR-NTN MediaTek Inc. discussion

[R2-2101259](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101259.zip) Remaining Aspects on Enhancements for NTN on RLC and PDCP Timers THALES discussion R2-2009070

[R2-2101492](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101492.zip) On RLC and PDCP for NTNs Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101518](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101518.zip) On RLC t-Reassembly for NTN Sequans Communications discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101532](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101532.zip) Additional PDCP aspects for NTN Sequans Communications discussion Rel-17 NR\_NTN\_solutions-Core R2-2010170

### 8.10.3 Control Plane

Also identify things not covered in the TR that need to be covered, if any.

[R2-2100883](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100883.zip) Considerations on ephemeris database and parameter distribution to UEs in Non Terrestrial Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

#### 8.10.3.1 Earth fixed/moving beams related issues

[R2-2100162](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100162.zip) Discussion on feeder link switch’s impact on mobility procedure OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100380](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100380.zip) Feeder link switch over NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core R2-2008981

[R2-2100528](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100528.zip) On Feeder Link Mobility in Transparent Satellite Payload Scenarios Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core R2-2009773

[R2-2100578](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100578.zip) Beam type-related information of LEO satellites LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100666](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100666.zip) Discussion on Floor Layout Information Spreadtrum Communications discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100742](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100742.zip) TAC update procedure Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100811](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100811.zip) Enhancements on cell reselection for earth moving and fixed beams Xiaomi discussion

[R2-2101406](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101406.zip) TAI update for earth moving cell NEC Telecom MODUS Ltd. discussion

[R2-2101574](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101574.zip) Mobility enhancements for feeder-link switch InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101607](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101607.zip) Considerations on Soft TAI Update CMCC discussion Rel-17 NR\_NTN\_solutions-Core

#### 8.10.3.2 Idle/Inactive mode

Idle/inactive mode specific issues.

Including cell selection/reselection & system information.

Including the outcome of [Post112-e][153][NTN] Idle mode aspects (Nokia)

[R2-2100163](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100163.zip) Discussion on idle/inactive mode procedures in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100254](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100254.zip) Idle and Inactive Mode Aspects for an NTN- Observations and Proposals Samsung Research America discussion Rel-17

[R2-2100259](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100259.zip) Improving Tracking Area Updates in NR-NTN MediaTek Inc. discussion

[R2-2100260](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100260.zip) On Cell Re-selection in NR-NTN MediaTek Inc. discussion

[R2-2100291](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100291.zip) The design of satellite ephemeris in NTN China Telecommunication discussion Rel-17

[R2-2100335](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100335.zip) Further Discussion on the IDLE and Inactive Mode for NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100347](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100347.zip) Idle mode aspects for NTN Ericsson discussion

[R2-2100382](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100382.zip) Idle mode operation in NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core R2-2008984

[R2-2100527](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100527.zip) Report from [Post112-e][153][NTN] Idle mode aspects (Nokia) Nokia, Nokia Shanghai Bell report Rel-17 NR\_NTN\_solutions-Core

[R2-2100579](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100579.zip) Contents of ephemeris information and remaining iissues LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100809](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100809.zip) Control plane for idle mode UE Xiaomi discussion

[R2-2100820](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100820.zip) Fixed Tracking Area and the Tracking Area Code in NTN PANASONIC R&D Center Germany discussion R2-2009120

[R2-2100880](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100880.zip) Cell Selection And Cell Reselection Solutions for Non Terrestrial Networks Apple, BT Plc. discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100913](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100913.zip) Idle mode enhancement in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101000](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101000.zip) Discussion on cell reselection in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101127](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101127.zip) Ephemeris provisioning for satellite and HAP constellation Lenovo, Motorola Mobility discussion Rel-17

[R2-2101196](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101196.zip) Discussion on cell selection and reselection in NTN ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101201](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101201.zip) Understanding on the newly introduced Access Technology identifier for NTN ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101572](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101572.zip) Cell reselection in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101609](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101609.zip) Discussion of cell selection/reselection and ephemeris in NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core Revised

[R2-2101707](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101707.zip) Considerations on satellite ephemeris Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101755](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101755.zip) PLMN separation for NTN & TN ASUSTeK discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101779](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101779.zip) NTN Indication and Idle mode enhancements Convida Wireless discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101786](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101786.zip) NTN cell selection and Idle mode enhancements Convida Wireless discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101787](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101787.zip) NTN cell reselection and Idle mode enhancements Convida Wireless discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101924](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101924.zip) Discussion of cell selection/reselection and ephemeris in NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core [R2-2101609](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101609.zip)

#### 8.10.3.3 Connected mode

Connected mode specific issues.

[R2-2100164](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100164.zip) Discussion on mobility management for connected mode UE in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100255](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100255.zip) Connected Mode Aspects for an NTN- Observations and Proposals Samsung Research America discussion Rel-17

[R2-2100258](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100258.zip) Efficient Configuration of SMTC and Measurement Gaps in NR-NTN MediaTek Inc. discussion

[R2-2100336](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100336.zip) Consider on measurement in NTN system CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100346.zip) Connected mode aspects for NTN Ericsson discussion

[R2-2100383](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100383.zip) Location based measurement event and location based CHO execution condition for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100384](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100384.zip) Measurement framework to support NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100529](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100529.zip) On Cell Identifier for NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100530](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100530.zip) On SMTC and measurement gaps for NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100580](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100580.zip) Further considerations on CHO, location reporting, and measurement window in NTN LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100665](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100665.zip) Discussion on Mobility in NTN Spreadtrum Communications discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100744](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100744.zip) Configuration and execution of CHO Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core R2-2009455

[R2-2100745](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100745.zip) SMTC and measurement gap configuration Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core R2-2009456

[R2-2100806](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100806.zip) Discussion on mobility management in NTN Xiaomi discussion

[R2-2100822](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100822.zip) Overhead Reduction for the Handover Procedure in NTN PANASONIC R&D Center Germany discussion R2-2009121

[R2-2100882](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100882.zip) Analysis of Proposed Conditional Handover Solutions for Non Terrestrial Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100915](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100915.zip) Mobility management in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

R2-2100992 Measurement window enhancements for NTN cell LG Electronics Inc. discussion Rel-17 Late

R2-2101110 Conditional handover in NTN system Lenovo, Motorola Mobility discussion Rel-17 Late

=> Withdrawn

[R2-2101128](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101128.zip) Considerations on measurements in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2101129](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101129.zip) CHO in NTN system Lenovo, Motorola Mobility discussion Rel-17

[R2-2101197](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101197.zip) Discussion on time(r) and location CHO triggering event configuration in NTN ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101298](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101298.zip) Service continuity between NTN and TN HUGHES Network Systems, Thales, BT Plc, Turkcell, Vodafone, ESA discussion Rel-17 Late

[R2-2101547](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101547.zip) Further considerations on CHO, location reporting, and measurement window in NTN LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core Withdrawn

[R2-2101610](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101610.zip) Discussion of service continuity between Non-Terrestrial Network and Terrestrial Network CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101611](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101611.zip) Further discussion of mobility enhancements for NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101708](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101708.zip) Discussion on CHO in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101709](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101709.zip) Discussion on location based measurement in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101792](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101792.zip) NTN ANR enhancements Convida Wireless discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2101859](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101859.zip) SMTC and measurement gap configuration in NTN Rakuten Mobile, Inc discussion

#### 8.10.3.4 LCS aspects

Potential issues associated to the use of the existing Location Services (LCS) application protocols to locate UE in the context of NTN.

Including the outcome of [Post112-e][151][NTN] LCS for NTN (Fraunhofer)

[R2-2100256](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100256.zip) LCS Aspects for an NTN- Observations and Proposals Samsung Research America discussion Rel-17

[R2-2100337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100337.zip) Discussion on LCS request and response enhancement in NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100348](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100348.zip) NTN location reporting and network identifiers Ericsson discussion

[R2-2100743](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100743.zip) Discussion on RAN3 LS on UE positioning Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2100810](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100810.zip) Discussion on location service for NTN Xiaomi discussion

[R2-2101069](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101069.zip) UE Positioning Methods in NR-NTN THALES discussion Rel-17

[R2-2101150](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101150.zip) Summary of [Post112-e][151][NTN] LCS for NTN (Fraunhofer) Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

## 8.11 NR positioning enhancements SI

(FS\_NR\_pos\_enh; leading WG: RAN1; REL-17; WID: RP-202094)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 3 threads

### 8.11.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

[R2-2100649](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100649.zip) Consideration on R17 positioning WI Scope Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101387](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101387.zip) draft LS to capture Text Proposal for TR 38.857 Ericsson LS out Rel-17 To:RAN1

[R2-2101388](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101388.zip) Report on TR 38.857 Ericsson report Rel-17

### 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 efficiency for commercial use cases.

No documents should be submitted to 8.11.2. Please submit to 8.11.2.x.

#### 8.11.2.1 Latency analysis and latency enhancements

Including summary of [Post112-e][616][POS] TP for latency analysis results (Intel)

Including summary of [Post112-e][617][POS] Evaluation of latency enhancement solutions (CATT)

This agenda item will use a summary document.

[R2-2100373](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100373.zip) Discussion on Enhancements for Latency Reduction InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100407](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100407.zip) Summary of [Post112-e][617][POS] Evaluation of latency enhancement solutions (CATT) CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100648](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100648.zip) Report of [Post112-e][616][POS] TP for latency analysis results (Intel) Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100653](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100653.zip) TP of [Post112-e][616][POS] TP for latency analysis results (Intel) Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100683.zip) Discussion on A-PRS and semi-persistent PRS vivo discussion FS\_NR\_pos\_enh

[R2-2100684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100684.zip) Discussion on positioning support in RRC\_IDLE and RRC\_INACTIVE states vivo discussion FS\_NR\_pos\_enh

[R2-2100685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100685.zip) Discussion on latency enhancement for R17 positioning vivo discussion FS\_NR\_pos\_enh

[R2-2100814](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100814.zip) Positioning enhancements on latency reduction Xiaomi discussion

[R2-2100869](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100869.zip) Discussion on latency reduction for NR positioning enhancements Apple discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100933](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100933.zip) On Positioning Latency Reduction Solutions Lenovo, Motorola Mobility discussion Rel-17

[R2-2101227](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101227.zip) Discussion on positioning latency Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101392](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101392.zip) Discussion on Latency Aspects Ericsson discussion Rel-17

[R2-2101469](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101469.zip) Positioning Latency Reduction Qualcomm Incorporated discussion

[R2-2101870](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101870.zip) Discussion on latency reduction solutions Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101906](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101906.zip) Latency reduction via configured grant for positioning Samsung R&D Institute UK discussion

[R2-2101907](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101907.zip) Latency reduction via measurement gap signalling optimization Samsung R&D Institute UK discussion

[R2-2101921](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101921.zip) Discussion on local LMF ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101922](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101922.zip) Discussion on latency reduction of NR positioning ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101923](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101923.zip) Discussion on latency reduction of MO-LR ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101950.zip) Summary of AI 8.11.2.1 Latency analysis and latency enhancements CATT discussion Rel-17 FS\_NR\_pos\_enh Late

#### 8.11.2.2 Accuracy and efficiency enhancements

Including summary of [Post112-e][608][POS] Support of on-demand PRS (Ericsson)

Including summary of [Post112-e][609][POS] Positioning support in RRC\_IDLE/RRC\_INACTIVE (Huawei)

This agenda item will use a summary document.

[R2-2100107](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100107.zip) Discussion on on-demand DL-PRS OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100108](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100108.zip) Positioning in RRC\_IDLE and RRC\_INACTIVE state OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100374](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100374.zip) Discussion on Positioning in RRC Idle/Inactive mode InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100375](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100375.zip) Discussion on On-demand reference signals for positioning InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100408](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100408.zip) Further considerations on on-demand PRS CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100409](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100409.zip) Further considerations on positioning in RRC\_IDLE/RRC\_INACTIVE CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100650](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100650.zip) Support of positioning in idle/inactive mode Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh R2-2009002

[R2-2100651](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100651.zip) Support of on demand PRS Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100673](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100673.zip) Discussion on positioning support in RRC\_IDLE and INACTIVE Spreadtrum Communications discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100813](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100813.zip) Discussion on PRS enhancements Xiaomi discussion

[R2-2100815](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100815.zip) Positioning enhancements on RRC idle inactive UE Xiaomi discussion

[R2-2100866](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100866.zip) Discussion on positioning accuracy and efficiency enhancements Apple discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100916](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100916.zip) Considerations on potential positioning enhancements Sony discussion Rel-17 FS\_NR\_pos\_enh R2-2009897

[R2-2100934](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100934.zip) Positioning in RRC\_INACTIVE and RRC\_IDLE state Lenovo, Motorola Mobility discussion Rel-17

[R2-2100935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100935.zip) On-Demand PRS Support Lenovo, Motorola Mobility discussion Rel-17

[R2-2101225](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101225.zip) Discussion on IDLE and INACTIVE positioning Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101226](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101226.zip) Discussion on-demand PRS Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101229](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101229.zip) TP for IDLE and INACTIVE postiioning Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101230](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101230.zip) [Post112-e][609][POS] Positioning support in RRC\_IDLE and INACTIVE (Huawei) Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101389](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101389.zip) Report on [Post112-e][608][POS] Support of on-demand PRS Ericsson report Rel-17

[R2-2101393](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101393.zip) SDT, UL Positioning and On Demand PRS Aspects Ericsson discussion Rel-17

[R2-2101470](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101470.zip) Positioning of UEs in RRC Idle/Inactive State Qualcomm Incorporated discussion

[R2-2101471](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101471.zip) On-Demand PRS Qualcomm Incorporated discussion

[R2-2101545](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101545.zip) Summary for AI 8.11.2.2 on the accuracy and efficiency enhancements Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh Late

[R2-2101868](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101868.zip) Enhancements on on-demand PRS transmissions Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101908](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101908.zip) support of positioning in idle/inactive mode UE Samsung R&D Institute UK discussion

[R2-2101909](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101909.zip) Support of on-demand PRS Samsung R&D Institute UK discussion

[R2-2101920](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101920.zip) Discussion on IDLE/INACTIVE mode positioning ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

### 8.11.3 Integrity and reliability of assistance data and position information

#### 8.11.3.1 General contributions

Including contributions on TP updating, and any remaining issues for KPIs, use cases, and error sources/threat models.

Including summary of [Post112-e][618][POS] Finalise integrity text proposals (Swift)

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2100596](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100596.zip) [Post112-e][618][POS] Finalise integrity text proposals Swift Navigation discussion

[R2-2100719](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100719.zip) Text Proposals of Definitions Relating to Positioning Integrity Modes Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101390](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101390.zip) On RAT-dependent integrity use cases and error categories Ericsson discussion Rel-17

[R2-2101504](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101504.zip) Recommendations for the Integrity Text Proposal Swift Navigation, Intel Corporation discussion

#### 8.11.3.2 Methodologies for network-assisted and UE-assisted integrity

This agenda item will use a summary document.

[R2-2100106](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100106.zip) Discussion on Methodology for Integrity OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100376](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100376.zip) Discussion on Methodologies for network-assisted & UE-assisted integrity InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100674](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100674.zip) Discussion on the methodologies for network-assisted and UE-assisted integrity Spreadtrum Communications discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100686](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100686.zip) Discussion on methodologies for network-assisted and UE-assisted integrity vivo discussion FS\_NR\_pos\_enh

[R2-2100720](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100720.zip) Positioning Integrity Result Reporting Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2100812](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100812.zip) Discussion on methodologies for positioning integrity Xiaomi discussion

[R2-2101087](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101087.zip) UE Detection and Signalling of Percieved Threats to GNSS systems Fraunhofer IIS, Fraunhofer HHI discussion R2-2010135

[R2-2101228](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101228.zip) Discussion of network-assisted and UE-assisted integrity Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2101391](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101391.zip) GNSS Integrity Methodologies Ericsson discussion Rel-17

[R2-2101436](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101436.zip) Summary of AI 8.11.3.2 Methodologies for network-assisted and UE-assisted integrity ESA discussion Rel-17 FS\_NR\_pos\_enh Late

[R2-2101437](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101437.zip) Text Proposal to methodologies for GNSS position integrity ESA discussion Rel-17 38.857 FS\_NR\_pos\_enh

## 8.12 Reduced Capability SI

(FS\_NR\_redcap; leading WG: RAN1; REL-17; WID: RP-202704)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.12.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

[R2-2100459](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100459.zip) TP for TR 38875 on evaluation for RRM relaxation vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2100983](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100983.zip) Conclusion of RedCap SI in RAN2 Ericsson discussion FS\_NR\_redcap

[R2-2100984](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100984.zip) RAN2 update to TR38875 Ericsson discussion FS\_NR\_redcap

### 8.12.2 Framework for reduced capabilities

For potential solutions already captured in the TR, contributions should focus on suggesting conclusions and recommendations from RAN2 side. For any further input the focus should be on those topics where there is not enough content to make a meaningful conclusion.

#### 8.12.2.1 Principles for how to define and constrain reduced capabilities

[R2-2100310](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100310.zip) Definition of RedCap UEs Qualcomm Incorporated discussion Rel-17 FS\_NR\_redcap

[R2-2100460](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100460.zip) UE type defination and constraining for RedCap UEs vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2100571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100571.zip) Define and constrain reduced capabilities for Redcap ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2100636](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100636.zip) Methods for barring and for capability reporting Sierra Wireless, S.A. discussion Rel-17

[R2-2100770](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100770.zip) Discussion on intended use cases for RedCap Ues LG Electronics UK discussion Rel-17

[R2-2101240](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101240.zip) Further Discussions on UE Capability for RedCap CATT discussion Rel-17 FS\_NR\_redcap

[R2-2101255](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101255.zip) Higher layer capabilities and procedural impacts of RedCap UE Huawei, HiSilicon discussion Rel-17

[R2-2101617](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101617.zip) Discussion on the definition and constraining of reduced capabilities CMCC discussion Rel-17 FS\_NR\_redcap

#### 8.12.2.2 Identification and access restrictions

[R2-2100155](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100155.zip) Discussion on RedCap UE’s access control OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2100208](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100208.zip) Supported bandwidth of RedCap UEs Samsung discussion Rel-17 FS\_NR\_redcap

[R2-2100209](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100209.zip) UAC enhancements for RedCap UE Samsung discussion Rel-17 FS\_NR\_redcap

[R2-2100311](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100311.zip) Impact of reduced capabilities on idle mode procedures Qualcomm Incorporated discussion Rel-17 FS\_NR\_redcap

[R2-2100461](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100461.zip) Identification and access restrictions for RedCap UEs vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2100572](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100572.zip) Identification and access restrictions for Redcap ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2100652](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100652.zip) UAC for RedCap UE Intel Corporation, Facebook discussion Rel-17 FS\_NR\_redcap R2-2009010

[R2-2100721](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100721.zip) Discussion on Identification and UE access restrictions for Redcap devices Xiaomi Communications discussion

R2-2100722 Discussion on Identification and UE access restrictions for Redcap devices Xiaomi Communications discussion Late

R2-2100723 Discussion on Identification and UE access restrictions for Redcap devices Xiaomi Communications discussion Late

[R2-2100755](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100755.zip) Cell reselection of RedCap UE Fujitsu discussion Rel-17 FS\_NR\_redcap

[R2-2100769](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100769.zip) Discussion on identification and access restrictions LG Electronics UK discussion Rel-17

[R2-2100985](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100985.zip) TP for UE identification and access restriction Ericsson discussion FS\_NR\_redcap

[R2-2101135](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101135.zip) UAC enhancement for REDCAP UEs Lenovo, Motorola Mobility discussion Rel-17

[R2-2101205](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101205.zip) Cell access for REDCAP UE with reduced bandwidth Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2101239](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101239.zip) Further Discussion on Access Restriction CATT discussion Rel-17 FS\_NR\_redcap

[R2-2101256](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101256.zip) Identification and access restriction for RedCap UE Huawei, HiSilicon discussion Rel-17

[R2-2101309](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101309.zip) Cell access restrictions for REDCAP UE Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2101630](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101630.zip) Discussion on Early Identification CMCC discussion Rel-17 FS\_NR\_redcap Revised

[R2-2101949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101949.zip) Discussion on Early Identification CMCC discussion Rel-17 FS\_NR\_redcap [R2-2101630](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101630.zip) Late

### 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).

[R2-2100156](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100156.zip) Consideration on eDRX for RedCap UEs OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2100157](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100157.zip) Discussion on RRM relaxation OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2100312](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100312.zip) Power saving enhancements for RedCap UEs Qualcomm Incorporated discussion Rel-17 FS\_NR\_redcap

[R2-2100569](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100569.zip) Report of Email discussion[155][REDCAP] RRM relaxations ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2100570](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100570.zip) Consideration on interoperability between Rel-17 Redcap RRM relaxation and Rel-16 RRM relaxation ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2100581](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100581.zip) RRM relaxation enhancement for RedCap UEs LG Electronics Inc. discussion Rel-17 FS\_NR\_redcap

[R2-2101241](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101241.zip) On eDRX for NR RRC Inactive and Idle CATT discussion Rel-17 FS\_NR\_redcap

[R2-2101242](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101242.zip) Summary of email discussion 154 - eDRX cycles CATT discussion Rel-17 FS\_NR\_redcap

[R2-2101308](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101308.zip) Power saving and battery lifetime enhancement for REDCAP UE Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2101618](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101618.zip) Discussion on the RRM relaxation CMCC discussion Rel-17 FS\_NR\_redcap

[R2-2101797](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101797.zip) Impact of eDRX PTW for Reduced Capability NR Devices Convida Wireless discussion Rel-17

#### 8.12.3.1 eDRX cycles

Including the outcome of [Post112-e][154][REDCAP] eDRX cycles (CATT)

R2-2100343 Discussion on e-DRX for Redcap Devices Xiaomi Communications discussion Late

[R2-2100344](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100344.zip) Discussion on e-DRX for Redcap Devices Xiaomi Communications discussion

[R2-2100986](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100986.zip) Extended DRX for RRC\_IDLE and RRC\_INACTIVE for NR RedCap Ues Ericsson discussion FS\_NR\_redcap

[R2-2101460](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101460.zip) 2.56 sec non-eDRX operation for RedCap Apple Inc, MediaTek Inc, Facebook Inc discussion Rel-17 FS\_NR\_redcap

#### 8.12.3.2 RRM relaxations

Including the outcome of [Post112-e][155][REDCAP] RRM relaxations (ZTE)

[R2-2100410](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100410.zip) Discussion on RRM relaxation for RedCap UE Xiaomi Communications discussion Rel-17

[R2-2100462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100462.zip) RRM relaxation for power saving vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap R2-2009087

[R2-2100805](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100805.zip) RRM relaxation for RedCap UEs SHARP Corporation discussion

[R2-2100987](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100987.zip) Further evaluations of RRM relaxation Ericsson discussion FS\_NR\_redcap

[R2-2101114](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101114.zip) RRM relaxation for stationary UE with reduced capability Lenovo, Motorola Mobility discussion Rel-17

[R2-2101257](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101257.zip) RRM measurement relaxation for RedCap UE Huawei, HiSilicon discussion Rel-17

[R2-2101461](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101461.zip) Localized mobility of some RedCap devices Apple Inc discussion Rel-17 FS\_NR\_redcap

[R2-2101540](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101540.zip) Relax measurement for stationary and low mobility devices Intel Corporation discussion Rel-17 FS\_NR\_redcap R2-2009022

[R2-2101877](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101877.zip) RRM relaxation for RedCap devices Samsung discussion Rel-17

## 8.13 SON/MDT

(NR\_ENDC\_SON\_MDT\_enh-Core; leading WG: RAN3; REL-17; WID: RP-201281)

Time budget: 1 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 6 threads

[R2-2100587](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100587.zip) Immediate MDT with MR-DC and Intermediate MDT for early measurements Samsung Telecommunications discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100588](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100588.zip) Progressing Logged MDT for R17 concerning MR-DC, IRAT and IDC Samsung Telecommunications discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core Revised

[R2-2101945](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101945.zip) Progressing Logged MDT for R17 concerning MR-DC, IRAT and IDC Samsung Telecommunications discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core [R2-2100588](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100588.zip)

### 8.13.1 Organizational

[R2-2100031](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100031.zip) Reply LS on on energy efficiency (R3-207014; contact: Ericsson) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh To:SA5 Cc:RAN2, SA

[R2-2100036](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100036.zip) LS on UE based solution related to Logged MDT (R3-207176; contact: Ericsson) RAN3 LS in Rel-16 TEI16 To:RAN2

[R2-2100047](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100047.zip) LS on Mobility Enhancement Optimization (R3-207229; contact: Lenovo) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN2

[R2-2100049](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100049.zip) LS on corrections for F1-U delay reporting when gNB-DU and gNB-CU-UP are not split (R3-207233; contact: Ericsson) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh To:RAN2

[R2-2101424](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101424.zip) On UE based solution related to Logged MDT (reply LS to R3-207176) Ericsson discussion

### 8.13.2 SON

[R2-2100842](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100842.zip) Consideration on handover related SON OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

#### 8.13.2.1 Handover related SON aspects

Including conditional handover and DAPS

[R2-2100191](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100191.zip) Further Consideration on CHO and DAPS Mobility Enhancement CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100600](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100600.zip) Successful HO report Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100697.zip) Discussion on scenarios, signalling and content for DAPS HO report vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100711](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100711.zip) Discussion on RLF report in CHO case SHARP Corporation discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core R2-2009632

[R2-2100776](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100776.zip) Discussion on successful handover report NTT DOCOMO, INC. discussion Rel-17 R2-2010459

[R2-2100780](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100780.zip) Discussion on RLF report for DAPS SHARP Corporation discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101102](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101102.zip) SON Enhancements for CHO Lenovo, Motorola Mobility discussion Rel-17

[R2-2101103](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101103.zip) SON Enhancement for DAPS Handover Lenovo, Motorola Mobility discussion Rel-17

[R2-2101251](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101251.zip) Discussion on handover related SON aspects Huawei, HiSilicon discussion Rel-17

[R2-2101343](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101343.zip) SON aspects of DAPS HO and Fast MCG Recovery Optimizations QUALCOMM INCORPORATED discussion Rel-17

[R2-2101438](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101438.zip) CHO- and DAPS-related aspects of SON Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101586](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101586.zip) Consideration on RLF report enhancements for CHO and DAPS ZTE Corporation, Sanechips discussion Rel-17

[R2-2101595](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101595.zip) RLF Enhancements for CHO Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101602](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101602.zip) RLF Enhancements for DAPS HO Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101639](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101639.zip) SON Enhancement for CHO CMCC discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101640](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101640.zip) SON Enhancement for DAPS CMCC discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101668](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101668.zip) Discussion on successive CHO failure scenarios Google Inc. discussion 38.331 NR\_ENDC\_SON\_MDT\_enh-Core

#### 8.13.2.2 2-step RA related SON aspects

[R2-2100192](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100192.zip) Discussion on RACH Report for 2-step RACH CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100286](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100286.zip) Further discussion on SON aspects of 2-step RA China Telecommunication discussion Rel-17

[R2-2100601](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100601.zip) RACH report logging of 2-step and 4-step RACH information Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100698](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100698.zip) Discussion on contents and signalling model of 2-step RACH report vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100710](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100710.zip) Discussion on RA information for 2-step RA SHARP Corporation discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core R2-2009631

[R2-2101252](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101252.zip) Discussion on 2 step RA related SON aspects Huawei, HiSilicon discussion Rel-17

[R2-2101439](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101439.zip) 2-Step RA information for SON purposes Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101587](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101587.zip) RA related enhancements ZTE Corporation, Sanechips discussion Rel-17

[R2-2101603](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101603.zip) RA Report Enhanements for 2-step RA Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101641](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101641.zip) SON Enhancement for 2-step RA CMCC discussion NR\_ENDC\_SON\_MDT\_enh-Core

#### 8.13.2.3 Other WID related SON features

Including RAN3 input features, successful handover report, MRO for SN change failure, RACH optimization enhancements, UL-DL coverage mismatch, …

[R2-2100193](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100193.zip) Further Consideration on the UE RACH Report for SN CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100194](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100194.zip) Enhancement on Mobility History Information CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100602](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100602.zip) Refined UL Coverage Outage Detection Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100699](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100699.zip) Discussion and reply on R3 LS for SgNB RACH report vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100700](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100700.zip) Discussion on SON enhancements for Successful HO vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100748](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100748.zip) Discussion on successful handover report NEC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100774.zip) Discussion on collection of UE history information in EN-DC NTT DOCOMO, INC. discussion Rel-17

[R2-2100779](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100779.zip) Discussion on conditional PSCell addition/change failure report NTT DOCOMO, INC. discussion Rel-17

[R2-2100845](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100845.zip) Consideration on successful handover report and UE history information in EN-DC OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101082](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101082.zip) Discussion on rel-17 Radio Link Failure Report enhancement NTT DOCOMO INC. discussion Rel-17

[R2-2101104](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101104.zip) SON enhancement for Inter-RAT handover Lenovo, Motorola Mobility discussion Rel-17

[R2-2101105](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101105.zip) SON enhancement for fast MCG link recovery Lenovo, Motorola Mobility discussion Rel-17

[R2-2101253](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101253.zip) Discussion on other SON aspects Huawei, HiSilicon discussion Rel-17

[R2-2101348](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101348.zip) Successful Handover Report QUALCOMM INCORPORATED discussion Rel-17

[R2-2101350](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101350.zip) Open Issues in Other WID related SON features QUALCOMM INCORPORATED discussion Rel-17

[R2-2101440](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101440.zip) Other WID related SON features Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101451](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101451.zip) [Post112-e][853][NR R17 SON/MDT] R17 Information needed in UE report for CHO cases (Ericsson) Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101588](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101588.zip) Considerations on successful HO report ZTE Corporation, Sanechips discussion Rel-17

[R2-2101589](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101589.zip) Consideration on MHI and UL/DL imbalance ZTE Corporation, Sanechips discussion Rel-17

[R2-2101604](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101604.zip) SON Enhancements Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101643](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101643.zip) Discussion on Successful Handover Report CMCC discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101644](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101644.zip) Enhancement for Mobility History Information CMCC discussion NR\_ENDC\_SON\_MDT\_enh-Core

### 8.13.3 MDT

#### 8.13.3.1 Immediate MDT enhancements

including M5/M6/M7 in all bearer type scenarios, immediate MDT for MR-DC

[R2-2100195](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100195.zip) Further Consideration on Immediate MDT Enhancements CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100493](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100493.zip) On the need for enhancements to the MDT framework Fraunhofer HHI, Fraunhofer IIS discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core R2-2009263

[R2-2100605](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100605.zip) Delay measurement configuration for DC cases Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100701](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100701.zip) Discussion on immediate MDT enhancements vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101342](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101342.zip) On the configuration and accuracy of M5, M6, and M7 measurements in split-bearer QUALCOMM INCORPORATED discussion Rel-17

[R2-2101414](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101414.zip) On Immediate MDT Enhancements Ericsson discussion

[R2-2101590](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101590.zip) Consideration on immediate MDT enhancements ZTE Corporation, Sanechips discussion Rel-17

[R2-2101696](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101696.zip) Discussion on immediate MDT enhancements Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

#### 8.13.3.2 Logged MDT enhancements

[R2-2100196](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100196.zip) Enhancement on Logged MDT in DC Scenario CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100287](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100287.zip) Discussion on logged MDT in MR-DC China Telecommunication discussion Rel-17

[R2-2100603](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100603.zip) Enhancements for Logged MDT and RLFreporting Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100604](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100604.zip) MDT use for management of System Information area Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100702.zip) Discussion on logged MDT enhancements in EN-DC vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2100843](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100843.zip) Consideration of logged MDT enhancements OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101341](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101341.zip) Logged measurement Enhancements QUALCOMM INCORPORATED discussion Rel-17

[R2-2101418](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101418.zip) On logged MDT related enhancements Ericsson discussion

[R2-2101591](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101591.zip) Consideration on Logged MDT enhancements and early measurements ZTE Corporation, Sanechips discussion Rel-17

[R2-2101642](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101642.zip) MDT enhancement for on-demand SI CMCC discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101697.zip) Discussion on logged MDT enhancements Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

### 8.13.4 L2 Measurements

[R2-2100288](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100288.zip) Discussion on L2 measurements for split bearers China Telecommunication discussion Rel-17

[R2-2100703](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100703.zip) Report of [Post112-e][852][NR R17 SONMDT] R17 L2M enhancement (vivo) vivo report Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2101417](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101417.zip) On layer-2 measurements Ericsson discussion

[R2-2101698](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101698.zip) Discussion on L2M Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

## 8.14 NR QoE SI

(FS\_NR\_QoE; leading WG: RAN3; REL-17; WID: RP-193256)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

This agenda item utilizes a summary document on QoE SI (China Unicom).

AT meeting email discussions defined after 1st online session.

General:

RAN2 outcome of this meeting is assumed to be captred as a TP to the TR, to be integrated by RAN3.

* [AT113-e][039][eQoE] RAN2 conclusions on QoE (China Unicom)

Scope: TP capturing R2 agreements

Wanted Outcome: Endorsed TP

Deadline: Interactive discussion, stop when agreement is reached or at EOM. Companies are requested to comment ASAP.

[R2-2102368](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102368.zip) TP for TR update (RAN2) China Unicom

DISCUSSION LAST DAY

- ZTE think that the wording in sections is not completely consistent with agreements wordings, and wonder if we also ned to update chairman notes.

- Lenovo wonder about FFSes or editors notes. Shall they be deleted? CU think that the remaining FFSes and notes are related to R3. Chair think we can make this clear to R3.

- Samsung wonder if we need to indicate impact of RRC segmentation. Ericsson think this is included in the point for reconfig and reporting. Huawei think RRC already has segmentation and we don’t need to change the impact section.

- QC wonder about “(with potential AS impact)” in 6.2.1. Chair think we can remove it.

- China Unicom clarifies that LS to R3 is not needed.

* Revised TP: remove “(with potential AS impact)” in 6.2.1 and 6.1.1. Revision in [R2-2102483](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102483.zip)
* The revised TP is endorsed unseen.
* Remaining FFSes and editor’s notes in the TP are considered related to R3, and R3 can decide whether to remove them, they are not needed from R2 point of view.

General

* The QoE SI can be closed from R2 point of view

[R2-2102367](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102367.zip) Summary of [AT113-e][039][eQoE] RAN2 conclusions on QoE (China Unicom) China Unicom

DISCUSSION On-Line Week 2

P7

- Samsung wonder if release and pause is different or the same. Samsung think release is about release of configuration, and it is same as R3 agreement. LG has same understanding as Samsung. Oppo think this hasn't been discussed in the email discussion.

- ZTE support P7 as written and think that it is useful to release just the reporting. Oppo also support.

- Huawei think that in LTE the configuration can be released at any time. This is indeed about releasing the configuration.

- QC think that pause of reporting and release of config depends on the scenario. Both are needed. QC think that all the configuration and the measurement log in the EU is cleared.

P8

- Nokia think that for signalling based configuration and mgmt. based configuration would be different. This need to be addressed and the three options are not complete. Huawei agrees that there would be some differences between signalling based and mgmt.

- Nokia think that in Option 1 the UE is assumed to indicate to the basestation, but that is not needed as the base-station knows.

- Ericsson think it would be good to capture some solutions. Think that session start forwarding is the key of option 1.

- Ericsson wonder what is the difference between Option 2 and Option 4

- QC wonder if we only will consider these solutions or also other solutions, e.g. for mgmt. based the src basestation may need to release the configuration.

- QC think we should capture that we may address other solutions than the ones here.

- ZTE think we should capture the options now as they are ..

- Ericsson believes the main differences is that in Option 1, the network is responsible for the area handling, in Option 2, the UE is responsible for the area handling, and in Option 3 the UE is responsible, and the whole area configuration is provided to the UE

- Nokia think we cannot agree the options as stated. Can have a generic statement that we address area handling.

- vivo also support to keep it simple now

P9 / P10

- Lenovo wonder if this is the only service for Idle Inactive and what about connected. Can maybe not make the agreements on P9 and P10 at this stage.

- QC think SA4 want us to support MBS, and we should support inactive and idle, Huawei also support.

- Ericsson think we will have QoE measurements in Connected. There shouldn’t be a network UE context for Idle.

- ZTE would like to restrict to Inactive but would be ok with majority.

* NR QoE takes LTE QoE solution as baseline. Details can be discussed during the WI phase.

LTE QoE solution includes the following key parts:

Both signaling based and management based initiated cases are allowed

The LTE QoE feature is activated by Trace Function

Application layer measurement configuration received from OAM or CN can be encapsulated in a transparent container, which is forwarded to UE in a downlink RRC message. Application layer measurements received from UE's higher layer can be encapsulated in a transparent container and sent to network in an uplink RRC message

* Collection of radio related measurements, if needed, should be done by existing methods such as MDT if UE supports MDT in R17.
* RAN2 assumes that RAN may need to release an ongoing QoE measurements/reporting configuration, e.g. if handing over to a network that doesn’t support this. Details can be discussed during the WI phase.
* RAN2 will address in the WI the details of Area Handling at mobility.
* For the Area Handling at mobility there are three main options on the table.

Option 1, where the network is responsible to keep track of whether the UE is inside or outside the area and configures / releases configuration accordingly.

Option 2, where the network is responsible to keep track of whether the UE is inside or outside the area, and the UE responsible to manage start stop of QoE accordingly.

Option 3, where the UE is responsible for area checking (UE has the area configuration) and to manage start stop of QoE accordingly.

* RAN2 will address in the WI the details of mobility procedure adaptation for signalling based vs mgmt. based.
* QoE measurements in RRC INACTIVE state can be supported, for MBS.
* QoE measurements in RRC IDLE state can be supported, for MBS.
* R2 assumes that RRC segmentation may be needed for transmission of QoE reports and the details can be discussed during the WI phase.
* Whether any QoE measurements need to be visible to RAN is a RAN3 topic.
* [AT113-e][040][eQoE] Reply LS to SA5 (QC)

Scope: converge on LS.

Intended outcome: Approved LS out

Deadline: Interactive discussion, stop when reaching agreement or at EOM.

[R2-2102417](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102417.zip) Draft LS reply with discussion comments Qualcomm discussion

* Noted

[R2-2102414](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102414.zip) LS reply on QoE Measurement Collection RAN2 LS out

* LS is Approved (this is the final version)

LS in

[R2-2100034](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100034.zip) NR QoE progress in RAN3 (R3-207120; contact: China Unicom) RAN3 LS in Rel-17 FS\_NR\_QoE To:RAN2 Cc:SA5

- R2 should reply and send a TP with R2 results/agreements.

- Chair think we should review the issues, identify whether there is something remaining that need to be addressed to close the SI.

- QC think there is e.g. no clear view on the slice based QoE and we can mention that in the LS.

- Ericsson think SRB and Mobility need to be handled in the SI, but we shall try to address now in this meeting.

* We will reply

[R2-2100039](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100039.zip) LS on Framework for QoE Measurement Collection (R3-207189; contact: Nokia) RAN3 LS in Rel-17 FS\_NR\_QoE To:SA5 Cc:RAN2

* Noted

[R2-2100075](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100075.zip) LS Reply on New service type of NR QoE (S4-201576; contact: Huawei) SA4 LS in Rel-17 FS\_NR\_QoE To:RAN3 Cc:RAN2 ,SA5, SA2

* Noted

[R2-2100076](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100076.zip) LS reply on QoE Measurement Collection (S4-201600; contact: Ericsson) SA4 LS in To:SA5, RAN2, RAN3 Cc:SA, RAN

* Noted

[R2-2100079](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100079.zip) LS on QoE Measurement Collection (S5-205347; contact: Ericsson) SA5 LS in To:RAN2, RAN3, SA4 Cc:SA, RAN

- Ericsson think we should reply.

- Samsung think temporary stop start in this LS is not the same as configuration release which is in the R3 TR, and maybe we need to mention this.

- QC think the temporary stop start is just about the reporting not about release.

- Huawei think R3 has captured both and they are indeed different.

* We will reply

Reply LS

[R2-2101336](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101336.zip) LS reply on QoE Measurement Collection QUALCOMM INCORPORATED LS out Rel-17 To:SA5, SA4, and RAN3 Cc:CT1

- Ericsson think we need to separate between LTE and NR in the reply. There seems to be no support to do anything for LTE. Huawei agrees, and what we discuss now is for NR.

- Nokia are not sure we need to acknowledge WithinArea, as withing the mgmt. based configuration, the UE just follows the configuration in the Cell, and if the UE goes outside the cell the config is not valid. Nokia think the proposed reply has a lot of impact in R2. Nokia think there is maybe no need for R2 impact to support area limitation.

- Huawei think that mobility has been agreed already by R3. Think we might have difficulty deciding all in this meeting, but we can continue later.

- LG are ok to reply to the things in the LS, but think there is no impact on the UE, so we shouldn’t mention the first issue.

- Ericsson think measurements shall not be interrupted in a session, but the area limitation is for starting a session. The details can be looked at later.

* noted

Summary

[R2-2102243](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102243.zip) Summary document on AI 8.14 NR QoE SI China Unicom discussion

DISCUSSION Week 1

P2

- Nokia think this is unclear. If it is about transparent RRC it could be ok, but now with more RRC involvement maybe this is not valid.

P4

- Samsung think we need to include separate SRB of MRDC somehow. Chair think

P5

- QC think this can be supported by multiple QoE config or multiple. Nokia think LTE solution was targeting mainly a single XML file, if we ned to support multiple files or other methods is unclear

P8

- Nokia wonder if the pause resume is different to release and configuration. Ericsson think that the intention from R3 is that the UE stores the configuration. QC think this is just to pause the reporting. Huawei think SA4 and SA5 have requirement that measurements shall be continued even when reporting is stopped.

- Apple wonder if the pause is per service. QC think this is per configuration,

P11

- Nokia are not sure. QC think there is also the case that the UE goes outside the area, could be dep in service type. Oppo think there is a problem if the UE doesn't have the area configuration, the UE wouldn’t know if to continue the measurement or not. Huawei think that this is addressed in the R3 TR but are ok to keep FFs as there seems to be additional aspects.

P13

- QC think this main motive is that MDT is used and we don’t add this in QOE.

- Nokia believe that radio measurements shall be collected by MDT, and there is no intention to collect radio measurement by QMC framework.

- Oppo think the text is not clear.

- Ericsson think that correlation and RAN awareness may need to be discussed during the WI phase.

- CMCC and OPPO think this cannot be agreed. Would like to keep open.

- Chairman: The Following was agreeable except CMCC and OPPO: Collection of radio related measurements, if needed, should be done by existing methods when they exist such as MDT. There is no intention to duplicate any such functionality with the QoE framework. Details can be discussed in the WI phase if needed.

- Chairman: Think that duplication of radio measurement collection into this framework can be a major piece of work, and recommend that the WID is made clear, i.e. either a very specific requirements with a clear motivation can be included or that it is excluded. TU budget will not allow for significant such work (unless RP reprioritization is done).

- QC and Nokia think this item is only about correlation not new measurement for radio.

* Management based QoE configuration should not override signaling based QoE configuration. Details can be discussed during the WI phase.
* QoE reports are sent via a separate SRB (separate from current SRBs) in NR, as this reporting is lower priority than other SRB transmissions.
* Configuration and Reporting for multiple simultaneous QoE measurements for a UE can be supported (can determine whether there is AS impact in the WI phase)
* RRC signaling is used by the gNB to indicate the UE to pause or resume the QoE reporting.
* The details of pause/resume mechanism need to be resolved in potential WI phase, e.g. is pause/resume for all QoE reports or per QoE configuration, how long can the UE store the reports, limit for stored reports size etc. (these points can be captured in TR 38.890)
* Whether the UE stores its QoE configuration when going to RRC INACTIVE state for potential use when the UE moves back to RRC Connected state will be decided in the WI phase.

Other

[R2-2101581](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101581.zip) Discussion on the RAN2 related work on NR QoE China Unicom discussion FS\_NR\_QoE

[R2-2101273](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101273.zip) Analysis of QoE measurements at OAM and RAN Ericsson discussion FS\_NR\_QoE

[R2-2100598](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100598.zip) QMC procedures principles Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_QoE

[R2-2101806](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101806.zip) Discussion on NR QoE management CMCC discussion Rel-17

[R2-2100846](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100846.zip) Discussion on QoE measurement collection in NR OPPO discussion Rel-17 FS\_NR\_QoE

[R2-2100879](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100879.zip) Discussions on the QoE SI Metrics and Collection Procedures Apple discussion Rel-17 FS\_NR\_QoE

[R2-2100967](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100967.zip) Discussion on NR QoE CATT discussion FS\_NR\_QoE

[R2-2100995](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100995.zip) QoE measurements in NR LG Electronics Inc. discussion Rel-17

[R2-2101189](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101189.zip) Discussion on QoE configuration and report aspects Huawei, HiSilicon discussion Rel-17 FS\_NR\_QoE

[R2-2101191](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101191.zip) Discussion on other QoE aspects Huawei, HiSilicon discussion Rel-17 FS\_NR\_QoE

[R2-2101917](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101917.zip) Miscellaneous discussion on QoE ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_QoE

[R2-2101339](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101339.zip) Handling of NR QoE reporting QUALCOMM INCORPORATED discussion Rel-17

[R2-2101496](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101496.zip) Ranking and prioritization of QoE enhancement features QUALCOMM Incorporated discussion Rel-17

[R2-2100597](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100597.zip) Generic requirements for QMC in NR Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_QoE

[R2-2101880](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101880.zip) Alignment with RAN3 agreements for NR QoE Samsung discussion Rel-17

[R2-2101878](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101878.zip) Transport of NR QoE report Samsung discussion Rel-17

[R2-2101271](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101271.zip) Solution for QoE Management Ericsson discussion FS\_NR\_QoE

[R2-2100706](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100706.zip) Discussion on QoE configuration and reporting vivo discussion Rel-17 FS\_NR\_QoS

[R2-2101879](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101879.zip) RRC signaling for NR QoE Samsung discussion Rel-17

[R2-2101919](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101919.zip) Stop an ongoing QoE measurement reporting ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_QoE

[R2-2101272](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101272.zip) Mobility Support for NR QoE Management Ericsson discussion FS\_NR\_QoE

[R2-2101918](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101918.zip) Discussion on NR QoE continuity during handover ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_QoE

[R2-2101190](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101190.zip) Discussion on QoE handling during UE mobility Huawei, HiSilicon discussion Rel-17 FS\_NR\_QoE

* 23 tdocs above are noted

## 8.15 NR Sidelink enhancements

(NR\_SL\_enh-Core; leading WG: RAN1; REL-17; WID: RP-202846)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 6 threads

### 8.15.1 Organizational

Including incoming LSs, rapporteur inputs, etc.

[R2-2100019](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100019.zip) Reply LS on new PQI support for PC5 communication (R1-2009621; contact: OPPO) RAN1 LS in Rel-17 FS\_5G\_ProSe To:SA2 Cc:RAN2

[R2-2100105](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100105.zip) Discussion on SA2 LS on sidelink DRX OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2100798](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100798.zip) Draft Reply LS on PC5 DRX operation vivo LS out To:SA2 Cc:RAN1

### 8.15.2 SL DRX

[R2-2100917](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100917.zip) Discussion on Sidelink DRX and sensing Sony discussion Rel-17 NR\_SL\_enh-Core

#### 8.15.2.1 SL DRX general

Including [POST112-e][702][SLe] High-level principles for SL DRX (LG), definition of on- and off- durations and the corresponding UE procedures, etc.

[R2-2100235](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100235.zip) Sidelink DRX Granularity CATT discussion Rel-17 NR\_SL\_enh-Core

[R2-2100236](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100236.zip) Sidelink DRX Timer Maintainence and Active Time Definition CATT discussion Rel-17 NR\_SL\_enh-Core

[R2-2100272](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100272.zip) Left issues on definition of SL DRX functionality OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2100274](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100274.zip) Discussion on granularity for sidelink DRX OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2100496](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100496.zip) Discussion on principles for sidelink DRX ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

[R2-2100497](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100497.zip) Discussion on timer configuration for sidelink DRX ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

[R2-2100514](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100514.zip) Definition of the Active Time in SL DRX InterDigital discussion Rel-17 NR\_SL\_enh-Core

[R2-2100515](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100515.zip) Procedures for Handling the DRX Configuration InterDigital discussion Rel-17 NR\_SL\_enh-Core

[R2-2100536](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100536.zip) General aspects for SL DRX Ericsson discussion Rel-17 NR\_SL\_enh-Core R2-2009231

[R2-2100573](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100573.zip) General Principle of NR SL DRX Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2100622](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100622.zip) On general Sidelink DRX design Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

[R2-2100637](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100637.zip) Discussion on SL DRX LG Electronics France discussion Rel-17 NR\_SL\_enh-Core

[R2-2100638](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100638.zip) Discussion on SL DRX Timer LG Electronics France discussion Rel-17 NR\_SL\_enh-Core

[R2-2100690](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100690.zip) [draft]LS to RAN1 on SL DRX timer configuration ZTE Corporation, Sanechips LS out Rel-17 NR\_SL\_enh-Core To:RAN1

[R2-2100795](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100795.zip) SL DRX remaining issues vivo discussion

[R2-2100862](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100862.zip) Discussion on remaining issues on SL DRX Configuration Apple discussion Rel-17 NR\_SL\_enh-Core

[R2-2101224](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101224.zip) Discontinuous reception and transmission in SL Lenovo, Motorola Mobility discussion NR\_SL\_enh-Core

[R2-2101245](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101245.zip) Discussion on Sidelink DRX Qualcomm Finland RFFE Oy discussion Rel-17

[R2-2101323](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101323.zip) Backward Compatibility Issue of SL DRX with Rel.16 Sidelink Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_enh-Core

[R2-2101330](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101330.zip) Granularity of SL DRX operation Samsung Research America discussion

[R2-2101600](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101600.zip) Discussion on sidelink DRX timer handling Xiaomi communications discussion

[R2-2101723](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101723.zip) Consideration on sidelink DRX for groupcast and broadcast Huawei, HiSilicon discussion

[R2-2101725](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101725.zip) General aspects of SL DRX for unicast Huawei, HiSilicon discussion

[R2-2101726](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101726.zip) (Draft) Reply LS on SA2 on PC5 DRX operation LG Electronics France LS out Rel-16 NR\_SL\_enh-Core To:SA2 Late

[R2-2101727](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101727.zip) Summary of [POST112-e][702][SLe] High-level principles for SL DRX LG Electronics France discussion Rel-17 NR\_SL\_enh-Core Late

[R2-2101756](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101756.zip) Discussion on Sidelink DRX ASUSTeK discussion Rel-17 NR\_SL\_enh-Core

#### 8.15.2.2 Mechanism to align wake-up time between TX and RX UEs

[R2-2100237](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100237.zip) Sidelink DRX Configuration Procedure for Sidelink Unicast CATT discussion Rel-17 NR\_SL\_enh-Core

[R2-2100273](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100273.zip) Discussion on configuration for sidelink DRX OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2100421](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100421.zip) Reservation Chain-based DRX Power Saving Fujitsu discussion Rel-17 NR\_SL\_enh-Core

[R2-2100422](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100422.zip) Alignment of Wake-up Time between TX and RX UEs Fujitsu discussion Rel-17 NR\_SL\_enh-Core R2-2009133

[R2-2100495](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100495.zip) Discussion on Mechanism to align wake-up time between TX and RX UEs ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

[R2-2100539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100539.zip) SL DRX alignment between two UEs Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2100574](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100574.zip) NR SL DRX Alignment between UEs Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2100629](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100629.zip) Alignment of DRX active time among sidelink UEs Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

[R2-2100657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100657.zip) Inter-UE sidelink DRX wake-up time alignment Spreadtrum Communications discussion Rel-17 NR\_SL\_enh-Core

[R2-2100796](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100796.zip) Mechanism to align wake-up time between TX and RX UEs vivo discussion

[R2-2100863](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100863.zip) Discussion on HARQ related timers in SL DRX Apple discussion Rel-17 NR\_SL\_enh-Core

[R2-2101117](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101117.zip) Discussion on wake-up time alignment between Tx and Rx UEs Lenovo, Motorola Mobility discussion Rel-17

[R2-2101192](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101192.zip) Issue with SL DRX Inactivity Timer for SL groupcast Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_enh-Core

[R2-2101207](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101207.zip) SL DRX with pre-indicated resources Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_enh-Core

[R2-2101209](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101209.zip) On the discrepancy TX-centric vs. RX-centric in Sidelink DRX Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_enh-Core

[R2-2101246](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101246.zip) On Wake-up alignment between Tx and Rx UEs Qualcomm Finland RFFE Oy discussion Rel-17

[R2-2101331](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101331.zip) Alignment of wake-up time between TX and RX UEs Samsung Research America discussion

[R2-2101598](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101598.zip) DRX coordination between TX and RX UE Xiaomi communications discussion

[R2-2101645](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101645.zip) On aligning wake-up time between TX and RX UEs MediaTek Inc. discussion Rel-17 NR\_SL\_enh-Core

[R2-2101652](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101652.zip) Sidelink DRX Considerations Convida Wireless discussion Rel-17 NR\_SL\_enh-Core

[R2-2101706](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101706.zip) Discussion on SL DRX wake-up time alignment between inter-UEs LG Electronics France discussion Rel-17 NR\_SL\_enh-Core

[R2-2101762](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101762.zip) Consideration on the sidelink DRX for unicast Huawei, Hisilicon discussion

[R2-2101866](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101866.zip) Methods for aligning SL DRX between UEs Sierra Wireless, S.A. discussion Rel-17

#### 8.15.2.3 Coordination between Uu DRX and SL DRX

[R2-2100275](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100275.zip) Discussion on network involvement for SL related DRX OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2100494](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100494.zip) Discussion on Coordination between Uu DRX and SL DRX ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

[R2-2100538](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100538.zip) DRX alignment between Uu and SL Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2100575](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100575.zip) NR SL DRX Uu and SL Wake-Up Time Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2100623](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100623.zip) Alignment of Uu and SL DRX active time Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

[R2-2100797](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100797.zip) Coordination between Uu DRX and SL DRX vivo discussion

[R2-2100864](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100864.zip) Discussion on alignment of Uu DRX and SL DRX Apple discussion Rel-17 NR\_SL\_enh-Core

[R2-2100931](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100931.zip) Coordination between Uu DRX and SL DRX Lenovo, Motorola Mobility discussion Rel-17 NR\_SL\_enh-Core

[R2-2101247](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101247.zip) On coordination between Uu DRX and SL DRX Qualcomm Finland RFFE Oy discussion Rel-17

[R2-2101306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101306.zip) On configuration and operation of SL DRX Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh-Core R2-2010058

[R2-2101332](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101332.zip) Coordination between DL DRX and SL DRX Samsung Research America discussion

[R2-2101599](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101599.zip) DRX coordination between Uu and sidelink Xiaomi communications discussion

[R2-2101646](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101646.zip) On coordination between Uu DRX and SL DRX MediaTek Inc. discussion Rel-17 NR\_SL\_enh-Core

[R2-2101763](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101763.zip) Discussion on SL communication impact on Uu DRX Huawei, Hisilicon discussion

[R2-2101764](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101764.zip) Alignment between Uu DRX and SL DRX Huawei, Hisilicon discussion

[R2-2101791](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101791.zip) Alignment scheme for Uu DRX and SL DRX LG Electronics Inc. discussion Rel-17 NR\_SL\_enh-Core

[R2-2101855](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101855.zip) Methods for configuring SL DRX relative to Uu DRX Sierra Wireless, S.A. discussion Rel-17

#### 8.15.2.4 Others

[R2-2100238](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100238.zip) Impacts of Sidelink DRX on the Other Procedures CATT discussion Rel-17 NR\_SL\_enh-Core

[R2-2100499](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100499.zip) Discussion on sensing and DRX ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

[R2-2100537](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100537.zip) Interaction between partial sensing and DRX Ericsson discussion Rel-17 NR\_SL\_enh-Core R2-2009232

[R2-2101333](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101333.zip) Transmission UE behaviours for SL DRX Samsung Research America discussion

[R2-2101869](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101869.zip) View on resource selection in mode 2 ITL discussion

### 8.15.3 Resource allocation enhancements RAN2 scope

[R2-2100239](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100239.zip) Consideration on the Resource Allocation Enhancements CATT discussion Rel-17 NR\_SL\_enh-Core

[R2-2100240](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100240.zip) Mixing Blind and Feedback-based HARQ Retransmissions CATT discussion Rel-17 NR\_SL\_enh-Core

[R2-2100276](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100276.zip) Discussion on inter-UE coordination OPPO discussion NR\_SL\_enh-Core

[R2-2100423](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100423.zip) Dual-mode Configuration and Selection Mechanism for NR Sidelink Fujitsu discussion Rel-17 NR\_SL\_enh-Core R2-2009134

[R2-2100498](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100498.zip) Discussion on inter-UE coordination ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

[R2-2100516](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100516.zip) Performing Mode 2 Resource Allocation when configured with SL DRX InterDigital discussion Rel-17 NR\_SL\_enh-Core

[R2-2100517](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100517.zip) [DRAFT] LS on RAN1 impact on sidelink DRX InterDigital LS out Rel-17 NR\_SL\_enh-Core To:RAN1

[R2-2100518](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100518.zip) RAN2 Aspects of Resource Allocation with Inter-UE Coordination InterDigital discussion Rel-17 NR\_SL\_enh-Core

[R2-2100576](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100576.zip) Inter-UE Coordination for Sidelink Mode 2 Resource Allocation Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2100577](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100577.zip) Power Reduction for Sidelink Mode 2 Resource Allocation Fraunhofer IIS, Fraunhofer HHI discussion

[R2-2100613](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100613.zip) Resource Allocation Enhancements for Power Saving Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

[R2-2100659](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100659.zip) Discussion on resource allocation enhancement for NR sidelink Spreadtrum Communications discussion Rel-17 NR\_SL\_enh-Core

[R2-2100799](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100799.zip) Uu and SL DRX impact to resource allocation mode 1 vivo discussion

[R2-2100800](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100800.zip) SL DRX impact to resource allocation mode 2 vivo discussion

[R2-2100865](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100865.zip) Discussion on resource allocation for Pedestrian UE Apple discussion Rel-17 NR\_SL\_enh-Core

[R2-2100981](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100981.zip) General principles of resource allocation enhacements for SL mode 2 Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2100982](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100982.zip) Way forward for resource allocation enhacements for SL mode 2 Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2101116](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101116.zip) Discussion on sidelink resource allocation enhancements Lenovo, Motorola Mobility discussion Rel-17

[R2-2101299](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101299.zip) Inter-UE Coordination for Enhanced Reliability Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

[R2-2101303](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101303.zip) Congestion control for Resource Allocation Schemes in NR Sidelink Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

[R2-2101318](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101318.zip) Coexistence of Sensing-based and Random Selection for Sidelink Mode 2 Resource Allocation Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh-Core

[R2-2101334](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101334.zip) Random selection and partial sensing Samsung Research America discussion

[R2-2101335](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101335.zip) Inter-UE coordination Samsung Research America discussion

[R2-2101647](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101647.zip) Transmission of assistance information for Mode 2 enhancement MediaTek Inc. discussion Rel-17 NR\_SL\_enh-Core

[R2-2101650](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101650.zip) On Resource Allocation Mode 2 Enhancement for NR Sidelink Convida Wireless discussion Rel-17 NR\_SL\_enh-Core R2-2010144

[R2-2101724](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101724.zip) Consideration on resource allocation enhancement in Rel-17 NR SL enhancement Huawei, HiSilicon discussion

[R2-2101795](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101795.zip) Power efficient resource allocation LG Electronics Inc. discussion Rel-17 NR\_SL\_enh-Core

[R2-2101796](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101796.zip) Inter-UE coordination for NR V2X LG Electronics Inc. discussion Rel-17 NR\_SL\_enh-Core

### 8.15.4 Other

[R2-2100519](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100519.zip) Discussion on Uu DRX for SL UE InterDigital discussion Rel-17 NR\_SL\_enh-Core

[R2-2101648](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101648.zip) On SL sync search optimization MediaTek Inc. discussion Rel-17 NR\_SL\_enh-Core

## 8.16 NR Non-Public Network enhancements

(WI NG\_RAN\_PRN\_enh-Core; leading WG: RAN3; REL-17; WID: RP-202363)

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 2-3 threads

### 8.16.1 Organizational

Rapporteur input, incoming LS etc.

[R2-2100542](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100542.zip) RAN2 Work Plan for Enhancement for Private Network Support for NG-RAN Nokia, China Telecom (Rapporteurs) Work Plan Rel-17 NG\_RAN\_PRN\_enh

- OPPO think we scope is not stable, can the scope be changed at RP.

- Nokia think yes, as R2 WI is based on SA2 scope.

- LG think that the TU allocation is limited and it need to be respected.

- Nokia confirms that this WI is to enable the SA2 / NAS parts and R2 doesn’t need to add any specific other functions.

* Noted

### 8.16.2 Support SNPN with subscription or credentials by a separate entity

Including the broadcasting of information to enable SNPN selection for UEs with subscription/credentials owned by an entity separate from the SNPN and Including the associated cell selection/reselection and connected mode mobility support (with RAN3)

* [AT113-e][031][eNPN] LS out (Nokia)

Scope: LS out to SA2, cc: TBD. Take into account LS question agreements below for *SNPN with subscription or credentials by a separate entity*, and can consider additional filtering. Take into account LS question proposals for *UE onboarding and provisioning for NPN* and determine what shall be included, if any. Take into account LS question proposals *IMS voice and emergency services for SNPN* and determine what shall be included, if any. Intended Outcome: Approved LS out Deadline: Interactive discussion, stop when agreement is reached or at EOM. Companies are requested to comment ASAP.

GENERAL for all the topics

- Question raised to send LS also to SA1. Nokia think we should only ask SA2, can consider CC other groups, e.g. Ran3,

* LS to be sent to SA2, can consider cc other groups.

[R2-2102489](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102489.zip) Clarification request for eNPN features RAN2 LSout

* [031] Approved

[R2-2102413](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102413.zip) Summary of [AT113-e][031][eNPN] SNPN with subscription or credentials by a separate entity Nokia

DISCUSSION Online Feb 3

P1.1

- Huawei proposes the use in network sharing scenarios instead of shared cells, as shared cells is not a clear phrasing,

P1.2

- Ericsson wonder what “RAN2 Assumes” mean. Nokia clarifies that this wording is only that there wasn’t full consensus so maybe more discussion is needed.

- Lenovo think we can leave this as an assumption, as this may be related to 3.2 as well.

- CATT wonder what is the meaning of the encoding FFS. Nokia just intend that it is unclear where to put it.

P2.1

- QC think that the Group ID is to group SNPN to minimize overhead. Can agree without assume.

- Nokia think that the meaning of Group ID is that the SNPN reflected by the Group ID might not be directly connected to RAN but credentials can be used. ZTE agrees.

- MTK wonder if RAN need different behaviour for Group id vs SNPN. Nokia think that NAS uses it in different ways in network selection, may also impact AS mobility.

- Ericsson think this shall be optional.

- CMCC wonder if SA2 will define other format, and ask same question as MTK, can it be transparent to AS.

P2.2

- Nokia proposes to skip

P5

- Why is this needed. Nokia think that it is important to understand why this broadcasted.

- Oppo wonder if group id is reported to NAS per SNPN. Chair think that whatever is bcast will be reported to NAS. Huawei think this is related to P2.2

- LG wonder when this is reported to NAS, LG think this can be requested by NAS and can be reported at connection setup.

- CATT think we can generalize the agreement. CMCC agrees,

P9

- MTK think that in addition to this, we should ask about P2.2, whether the Group IDs are per SNPN or not. Nokia agrees.

- QC think LS is ok, but the first question is RAN3 scope. Chair think this might be R3, and there might be a need to forward information on the AS, in order to enable this. Huawei also think this is RAN3 scope. Huawei think R2 has not identified any specific Issue. Ericsson also think this can be discussed in R3. Chair think it is ok, R3 should determine what they need and ask for it. Nokia are ok.

- ZTE think the first q is for the on-boarding scenario.

* A new indicator that "access using credentials from a separate entity is supported" is broadcasted, and the indicator is broadcasted per SNPN in network sharing scenarios.
* RAN2 assumes that the new indicator that "access using credentials from a separate entity is supported" is broadcasted in SIB1.
* The supported Group IDs are broadcasted
* A new indicator that "whether the SNPN allows registration attempts from UEs that are not explicitly configured to select the SNPN" is broadcasted, and the indicator is broadcasted per SNPN in network sharing scenario.
* RAN2 assumes that the new indicator that "whether the SNPN allows registration attempts from UEs that are not explicitly configured to select the SNPN" is broadcasted in SIB1.
* In the UE, AS reports to NAS about the following broadcasted new parameters:

Indicator that "access using credentials from a separate entity is supported" in the cell per SNPN

Supported Group IDs

Indicator that "whether the SNPN allows registration attempts from UEs that are not explicitly configured to select the SNPN" per SNPN.

* Send an LS to SA2 (CC: RAN3 and CT1) with the following questions:

Can RAN2 assume uniform support of GID(s) across a network or a registration area?

Is the GID selected by NAS given to AS after registration to assist UE subsequence cell selection and reselection?

Should AS support the (IDLE/INACTIVE/CONNECTED mode) mobility scenarios between different SNPNs or SNPN and PLMN when the same credentials can be used on the source and the target networks?  
E.g. Can a UE move from SNPN#1 to SNPN#2 when the GID used to access SNPN#1 is supported by SNPN#2?   
Can a UE move between SNPN#1 to PLMN#a when the credential of PLMN#a is used to access SNPN#1?

Shall Group IDs be broadcasted per SNPN? (or per cell?)

[R2-2100543](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100543.zip) Overview of RAN2 impacts to support SNPN with 3rd party subscription Nokia, Nokia Shanghai Bell discussion Rel-17 NG\_RAN\_PRN\_enh

[R2-2101717](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101717.zip) Support SNPN along with credentials owned by an entity separate from the SNPN CMCC discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100241](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100241.zip) Initial Discussion on Credential by a Separate Entity OPPO discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100277](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100277.zip) Consideration on SNPN with Subscription or Credentials by a Separate Entity CATT discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100289](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100289.zip) Discussion of credentials by a separate entity in SNPN China Telecommunication discussion Rel-17

[R2-2100431](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100431.zip) Consideration on the Separate Entity Supporting ZTE Corporation, Sanechips discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100441.zip) Access to SNPN with credentials from a different entity Qualcomm Incorporated discussion

[R2-2100490](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100490.zip) SNPN and Service Provider (SP) separation Ericsson discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100634](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100634.zip) RAN2 impact on support SNPN along with subscription / credentials owned by an entity separate from the SNPN Intel Corporation discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100838](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100838.zip) Support SNPN with subscription or credentials by a separate entity vivo discussion

[R2-2100918](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100918.zip) SIB info for third party credentials and UE onboarding Sony discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2101001](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101001.zip) Discussion on RAN2 impact of supporting SNPN with credentials owned by a separate entity Huawei, HiSilicon, China Telecom discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2101515](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101515.zip) Support of SNPN with subscription or credentials by a separate entity LG Electronics discussion Rel-17

* [031] All 13 tdocs above are Noted.

### 8.16.3 Support UE onboarding and provisioning for NPN

Including the UE onboarding relevant parameter broadcast from SIB and The associated cell selection/reselection, cell access control and the connected mode mobility support

* [AT113-e][032][eNPN] UE onboarding and provisioning for NPN (Ericsson)

Scope: Take into account documents submitted to this section, 1st pass: identify what is required to be supported by AS and determine the RAN2 impact, if possible. Identify common views / potential initial agreements, Identify points that need further discussion. Can also gather comments on the need to ask questions to other group.

Intended outcome: Report with agreeable proposals and discussion points (not too many, preferably < 10) for treatment on-line

Deadline: 1st Deadline for Comments: Friday Jan 29 1000 UTC. Other deadline if needed by rapporteur. Report Ready for treatment on-line Feb 3.

CLOSED

[R2-2102363](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102363.zip) Summary of [AT113-e][032][eNPN] UE onboarding and provisioning for NPN Ericsson

DISCUSSION

P1.4

- Huawei think we can ask this question to SA2, and it is also included in proposed questions to SA2. Huawei think this may affect cell selection. Nokia think this impacts R2 but is a system level impact.

P4.1

- CATT think 4.1 need further conclusion in SA2, think this is used for AMF selection. CATT think the R16 method is sufficient. ZTE think this is not enough as not all AMF selected by legacy mechanism support onboarding.

- Ericsson think this can be decided now. QC agrees, but think we should use gNB. ZTE support

- Oppo think we should clarify it is for Idle mode.

- Chair propose: The UE sends an indication for onboarding to the gNB at RRC Connection Establishment (intention to support AMF selection).

- LG proposes MSG5.

- ZTE support.

P5

- CMCC wonder if a UE in SNPN access mode can still access PLMN for onboarding. Chair think maybe SA2 will tell us even if we don’t ask.

LS to SA2

- The proposals were not filtered and Ericsson proposes to continue offline to determine whether these questions are needed, and which ones are needed. Huawei agree. Intel agrees as well, and also for the credentials one.

* Broadcast a 1-bit indication for onboarding per O-SNPN.
* R2 assumes that the 1-bit indication for onboarding is in SIB1.
* The UE sends an indication for onboarding to the gNB at RRC Connection Establishment (intention to support AMF selection).
* Focus on the O-SNPN scenario. Wait for SA2 further conclusion on how a PLMN can be used as onboarding network.
* Will continue offline on the LS questions.

[R2-2100491](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100491.zip) UE onboarding Ericsson discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2101616](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101616.zip) Discussion the issue to support UE onboarding and provisioning for NPN CMCC discussion Rel-17 NG\_RAN\_PRN\_enh

[R2-2101002](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101002.zip) Discussion on RAN2 impact of UE onboarding and remote provisioning for SNPN and PNI-NPN Huawei, HiSilicon, China Telecom discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100242](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100242.zip) Initial Discussion for Onboarding OPPO discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100243](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100243.zip) Cell Access Control for Onboarding OPPO discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100278](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100278.zip) Discussion on UE Onboarding and Provisioning for NPN CATT discussion Rel-17

[R2-2100432](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100432.zip) Consideration on the Onboarding and Provisioning for NPN ZTE Corporation, Sanechips discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100442](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100442.zip) UE onboarding and provisioning for NPN Qualcomm Incorporated discussion

[R2-2100544](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100544.zip) Overview of RAN2 impacts to support UE onboarding and provisioning for NPN Nokia, Nokia Shanghai Bell discussion Rel-17 NG\_RAN\_PRN\_enh

[R2-2100635](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100635.zip) RAN2 impact on support UE onboarding and provisioning for NPN Intel Corporation discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100839](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100839.zip) Support UE onboarding and provisioning for NPN vivo discussion

[R2-2101516](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101516.zip) Support of UE onboarding and provisioning for NPN LG Electronics discussion Rel-17

[R2-2101898](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101898.zip) LS on UE onboarding and remote provisioning for SNPN CMCC LS out Rel-17 To:SA2 Cc:RAN3 Revised

[R2-2101930](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101930.zip) draft LS on UE onboarding and remote provisioning for SNPN CMCC LS out Rel-17 [R2-2101898](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101898.zip) To:SA2 Cc:RAN3

* [032] All 13 tdocs above are noted

### 8.16.4 Other

Including support of IMS voice and emergency services for SNPN (Broadcasting of relevant parameters). This part might not be treated.

* [AT113-e][033][eNPN] IMS voice and emergency services for SNPN (Huawei)

Scope: Take into account documents submitted to this section, 1st pass: identify what is required to be supported by AS and determine the RAN2 impact, if possible. Identify common views / potential initial agreements, Identify points that need further discussion. Can also gather comments on the need to ask questions to other group.

Intended outcome: Report with agreeable proposals and discussion points (not too many, preferably < 6) for treatment on-line

Deadline: 1st Deadline for Comments: Friday Jan 29 1000 UTC. Other deadline if needed by rapporteur. Report Ready for treatment on-line Feb 3.

CLOSED

[R2-2102309](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102309.zip) Summary for Offline [033][eNPN] IMS voice and emergency services for SNPN Huawei, HiSilicon

DISCUSSION

P1

- Oppo wonder what extension means, maybe just say an indicator is needed. LG think the original proposal was indeed to use the current IE and extend if needed.

P6

- Intel think this is just for acceptable cells. Huawei agrees but think this is obvious. Intel think that emergency service can also be provided when camping normally.

LS

- Huawei think there are some LS questions also for this topic.

- QC think we should ask SA2. Huawei think we should ask also SA1. QC think PWS doesn’t affect AS TSes.

* Extend the ims-EmergencySupport field to SNPN cells (it is FFS whether to reuse the existing IE or add new IEs indicating the support for IMS emergency).
* For reserved cells specified in TS 38.304, all acceptable cells of an SNPN supporting emergency services are treated as suitable when the UE has an ongoing emergency call.
* R17 UEs in SNPN Access Mode can camp on an acceptable SNPN cell supporting emergency services to obtain emergency services.
* The voiceFallbackIndication field in RRCRelease and MobilityFromNRCommand is not applicable to SNPN cells.

[R2-2101003](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101003.zip) Discussion on support of IMS voice and emergency services for SNPN Huawei, HiSilicon, China Telecom discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100279](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100279.zip) Discussion on Support of IMS Emergency for SNPN CATT discussion Rel-17

[R2-2100364](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100364.zip) RAN2 impact on support of IMS emergency call for SNPN Intel Corporation discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100433](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100433.zip) Consideration on the IMS voice and emergency services for SNPN ZTE Corporation, Sanechips discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100492](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100492.zip) Support of IMS voice and emergency services for SNPNs Ericsson discussion Rel-17 NG\_RAN\_PRN\_enh-Core

[R2-2100545](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100545.zip) Overview of RAN2 impacts to support IMS and emergency services for SNPN Nokia, Nokia Shanghai Bell discussion Rel-17 NG\_RAN\_PRN\_enh

[R2-2100639](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100639.zip) Support of IMS voice and emergency services for SNPN Qualcomm Incorporated discussion

[R2-2100840](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100840.zip) Support of IMS voice and emergency service for SNPN vivo discussion

[R2-2101517](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101517.zip) Support of IMS voice and emergency services for SNPN LG Electronics discussion Rel-17

[R2-2101631](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101631.zip) Support of IMS voice and emergency services for SNPN CMCC discussion Rel-17 NG\_RAN\_PRN\_enh

* [033] All 10 tdocs above are Noted

## 8.17 NR R17 Other

Time budget: TU

Tdoc Limitation: tdocs

Email max expectation: threads

This item carries the otherwise unbudgeted time to treat LSes for not yet started items.

General R17 CRs and topics

On-Line Discussion W1 Day1.

a) Confirm TEI17 start in RAN2 is Q3

b) Confirm that we will reply to any R17 LS requesting reply, also TEI

c) Confirm the plan to have R17 CRs approval at planned TS creation (not before that time).

d) Breifly discuss the consequence of a) (esp for R4 work): Requested changes from other groups: Treat at any time, and have Running CRs? Agree-in-principle CRs? Not treat and Postpone?

e) Comfirm whether to implement R4 Release Independent features R15 R16 by explicit CRs or by R17 CR + Magic sentence.

Discussion

E)

- Huawei think we need to discuss case by case, and expect that there will be issues to discuss. E.g. for the Power Class Huawei supported Softbanks CRs with Magic Sentence.

- Softbank think both approaches could work but think Magic Sentence is simpler.

- Nokia agrees we should discuss case by case. Lenovo agrees, think that for new bandwidths we always had explicit CRs

- Ericsson agrees this has been somewhat problematic .. for LTE we didn’t go back to the start rel for BW in the end. Ericsson think one solution is to introduce in R16 but not R15, and then the R4 TS can indicate the real UE requirement.

D)

- Huawei think we should just agree-in-principle at any time and then come back at TS creation,

- Ericsson agrees. Apple as well.

- Ericsson think that R2 need to publish in the Rel for which there is R4 Requirements.

- Sony think we can use TEIx

- ZTE wonder if there is impact to ASN.1 for R15 and R16 for Rel-Indep feature.

* On d) we don’t postpone, can agree-in-principle for R17 CR(s)
* On e) we expect to treat and decide case by case

SA2

LS in No Action

[R2-2100068](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100068.zip) LS on New Standardized 5QIs for 5G-AIS (Advanced Interactive Services) (S2-2009227; contact: Tencent) SA2 LS in Rel-17 5G\_AIS To:RAN1, SA4 Cc:RAN2

[000] Chairman: suggest noted

* [000] Noted

[R2-2100069](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100069.zip) LS on Aerial Features for Unmanned Aerial Vehicles (S2-2009228; contact: Qualcomm) SA2 LS in Rel-17 FS\_ID\_UAS To:RAN Cc:RAN2, RAN3

[000] Chairman: suggest noted

* [000] Noted
* [AT113-e][034][NR17 Other] NR17 other (Huawei)

Scope: Treat [R2-2100054](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100054.zip), [R2-2100896](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100896.zip), [R2-2100897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100897.zip), [R2-2100950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100950.zip), [R2-2100951](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100951.zip), T2-2100952, [R2-2100953](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100953.zip), [R2-2100225](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100225.zip)9, [R2-2100145](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100145.zip)7, [R2-2100145](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100145.zip)8, [R2-2100046](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100046.zip), [R2-2101415](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101415.zip), [R2-2100055](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100055.zip), [R2-2100161](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100161.zip)2, [R2-2100161](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100161.zip)3

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs and LS out if applicable.

Intended outcome: Report, Agreed CRs, approved LS if any is agreeable.

Deadline: Prepare such that results can be available Feb 3 (for potential CB Feb 4).

[R2-2102375](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102375.zip) Summary of [AT113-e][034][NR17 Other] NR17 other Huawei, HiSilicon,

DISCUSSION Online

P2

- Rap reports that only part can be agreed today.

- Apple think the CRs are complete and that the part that is referred to as missing in fact is a general improvement.

- MTK also prefer to have CRs now, and would like to have a short email discussion to address the NOTE as well.

- TMO US think the issue raised is new and is not strictly needed. TMO has deployment plans and need an approved CR.

- ZTE think we can agree in principle but anyway think we need a discussion on supported BW to make the solution be more complete. TMO proposes a short email discussion. Apple think it is not urgent and we can discuss next meeting. Huawei agrees. Samsung as well. Nokia agrees these are separate issues.

* Noted, agreements are taken into account and reflected below

R4

FR2 FWA - Power Class Release Indep R15

[R2-2100054](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100054.zip) LS for FR2 FWA power class (R4-2016876; contact: Softbank) RAN4 LS in Rel-17 NR\_FR2\_FWA\_Bn257\_Bn258 To:RAN2

* [034] Noted
* The power class 5 is introduced from Rel-17 with magic sentence in the cover sheet. The CRs are pursued aiming to be agreed in principle, with considering the comments on wording for 38.306 CR, inter-operability analysis and Annex C.

[R2-2100896](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100896.zip) Introducing UE capability for power class 5 for FR2 FWA SoftBank, Huawei draftCR Rel-17 38.331 16.3.1 C NR\_FR2\_FWA\_Bn257\_Bn258-Core

[R2-2102432](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102432.zip) Introducing UE capability for power class 5 for FR2 FWA SoftBank, Huawei draftCR Rel-17 38.331 16.3.1 C NR\_FR2\_FWA\_Bn257\_Bn258-Core

[R2-2102451](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102451.zip) Introducing UE capability for power class 5 for FR2 FWA SoftBank, Huawei CR Rel-17 38.331 2464 - 16.3.1 C NR\_FR2\_FWA\_Bn257\_Bn258-Core

* [034] Agreed-in-principle

[R2-2100897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100897.zip) Introducing UE capability for power class 5 for FR2 FWA SoftBank, Huawei draftCR Rel-17 38.306 16.3.0 C NR\_FR2\_FWA\_Bn257\_Bn258-Core

[R2-2102433](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102433.zip) Introducing UE capability for power class 5 for FR2 FWA SoftBank, Huawei draftCR Rel-17 38.306 16.3.0 C NR\_FR2\_FWA\_Bn257\_Bn258-Core

[R2-2102452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102452.zip) Introducing UE capability for power class 5 for FR2 FWA SoftBank, Huawei CR Rel-17 38.306 0531 - 16.3.0 C NR\_FR2\_FWA\_Bn257\_Bn258-Core

* [034] Agreed-in-principle

[R2-2100950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100950.zip) Introduction of PC5 for FR2 Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.12.0 2368 - B NR\_FR2\_FWA\_Bn257\_Bn258-Core

[R2-2100951](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100951.zip) Introduction of PC5 for FR2 Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.3.0 2369 - A NR\_FR2\_FWA\_Bn257\_Bn258-Core

[R2-2100952](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100952.zip) Introduction of PC5 for FR2 Nokia, Nokia Shanghai Bell CR Rel-15 38.306 15.12.0 0495 - B NR\_FR2\_FWA\_Bn257\_Bn258-Core

[R2-2100953](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100953.zip) Introduction of PC5 for FR2 Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.3.0 0496 - A NR\_FR2\_FWA\_Bn257\_Bn258-Core

* [034] 4 CRs above not pursued

FR1\_35MHz\_45MHz\_BW - Release Indep R15

All Moved from 5.4.3:

[R2-2102259](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102259.zip) LS to RAN2 on 35 and 45 MHz channel Bandwidths (R4-2017846; contact: T-Mobile) RAN4 LS in Rel-15 NR\_FR1\_35MHz\_45MHz\_BW-Core To:RAN2

* For 35 and 45 MHz channel Bandwidths The CRs [R2-2102393](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102393.zip) and [R2-2102394](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102394.zip) seems agreeable (confirm agreement by email, they are not available)
* How to understand BW the per band and per CC signalling is postponed.

[R2-2101457](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101457.zip) Support of 35 MHz and 45 MHz channel bandwidth for FR1 Apple Inc, T-Mobile CR Rel-15 38.306 15.12.0 0511 - F NR\_FR1\_35MHz\_45MHz\_BW-Core

* Revised

[R2-2102393](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102393.zip) Support of 35 MHz and 45 MHz channel bandwidth for FR1 Apple Inc, T-Mobile CR Rel-15 38.306 15.12.0 0511 1 F NR\_FR1\_35MHz\_45MHz\_BW-Core

* [034] Agreed

[R2-2101458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101458.zip) Support of 35 MHz and 45 MHz channel bandwidth for FR1 Apple Inc, T-Mobile CR Rel-16 38.306 16.3.0 0512 - A NR\_FR1\_35MHz\_45MHz\_BW-Core

* Revised

[R2-2102394](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102394.zip) Support of 35 MHz and 45 MHz channel bandwidth for FR1 Apple Inc, T-Mobile CR Rel-16 38.306 16.3.0 0512 1 A NR\_FR1\_35MHz\_45MHz\_BW-Core

* [034] Agreed

FR1 enh - UL MIMO restrictions for SUL

[R2-2100055](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100055.zip) LS on removing restriction on configuring UL MIMO for SUL band (R4-2016909; contact: CMCC) RAN4 LS in Rel-17 NR\_RF\_FR1\_enh-Core To:RAN2 Cc:RAN1

* [034] Noted

[R2-2101612](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101612.zip) Draft CR: Remove the maximum number of MIMO layers configuration restrictions for SUL CMCC, Huawei, HiSilicon, CATT draftCR Rel-17 38.331 16.3.1 B NR\_RF\_FR1\_enh

* [034] revised

[R2-2102335](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102335.zip) Draft CR: Remove the maximum number of MIMO layers configuration restrictions for SUL CMCC, Huawei, HiSilicon, CATT draftCR Rel-17 38.331 16.3.1 B NR\_RF\_FR1\_enh

* Revised into a CR

[R2-2102453](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102453.zip) Remove the maximum number of MIMO layers configuration restrictions for SUL CMCC, Huawei, HiSilicon, CATT CR Rel-17 38.331 16.3.1 2465 - B NR\_RF\_FR1\_enh

* [034] Agreed-in-principle

[R2-2101613](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101613.zip) Draft CR: Remove the maximum number of MIMO layers restrictions for SUL CMCC, Huawei, HiSilicon, CATT draftCR Rel-17 38.306 16.3.0 B NR\_RF\_FR1\_enh

* Revised into a CR

[R2-2102454](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102454.zip) Remove the maximum number of MIMO layers restrictions for SUL CMCC, Huawei, HiSilicon, CATT CR Rel-17 38.306 16.3.0 0532 - B NR\_RF\_FR1\_enh

* [034] Agreed-in-principle

R3

R3 TEI17 - Broadcast of gNB ID length

[R2-2100046](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100046.zip) LS on broadcasting gNB ID length in system information block (R3-207226; contact: Ericsson) RAN3 LS in Rel-17 TEI17 To:RAN2 Cc:SA3

* [034] Noted

[R2-2101415](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101415.zip) On broadcasting gNB ID length in SIB1 (reply LS to R3-207226) Ericsson discussion

* [034] Noted

[R2-2102332](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102332.zip) [Draft] Reply LS on broadcasting gNB ID length in system information block Ericsson LSout

- QC think we don’t usually mention types of companies etc. Huawei think we change to “companies”

- Huawei think we shall send the LS. Nokia agrees.

- Samsung and Ericsson think we should remove he last sentence. Ericsson think we have anyway indicated that we have concerns on overhead. Vivo agrees ..

- QC think the last sentence should be kept. Nokia agrees. CATT and Xiaomi as well.

* Change “network vendors” to “companies”
* With this change the LS is approved in [R2-2102449](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102449.zip).

SA3

LTE UP Integrity Protection - Postponed

[R2-2101477](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101477.zip) Discussion on Capturing PDCP Impacts for User Plane Integrity Protection Ericsson discussion Rel-17

- [000] Chairman: Topic seems valid to R2, but suggest postpone, wait for request from SA3. Not sure SA3 need R2 input to make their conclusions at current stage.

RAN2 TEI17 - Postponed

[R2-2101032](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101032.zip) Discussion on NeedForGap signalling in MR-DC Nokia, Nokia Shanghai Bell, BT Plc discussion Rel-17 TEI17

# 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)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 9.1.1 Organizational

[R2-2101552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101552.zip) Work plan of Rel-17 enhancements for NB-IoT and LTE-MTC Ericsson Work Plan Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

### 9.1.2 NB-IoT neighbor cell measurements and corresponding measurement triggering before RLF

Including Summary of AI 9.1.2 (Ericsson).

[R2-2100324](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100324.zip) Further considerations on measurement in connected mode ZTE Corporation, Sanechips discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core R2-2009058

[R2-2100325](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100325.zip) draft LS on measurement in connected mode for NB-IoT ZTE Corporation, Sanechips LS out Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core To:RAN4

[R2-2100513](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100513.zip) Analysis on Re-establishment time components and Solutions for Faster re-establishment Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2100670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100670.zip) Further discussion on the corresponding measurement before RLF Spreadtrum Communications discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2101043](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101043.zip) Neighbour cell measurements in RRC\_CONNECTED Huawei, HiSilicon discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2101056](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101056.zip) Impact on Static Devices THALES discussion

[R2-2101113](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101113.zip) Neighbor cell measurements triggering before RLF Lenovo, Motorola Mobility discussion Rel-17

[R2-2101156](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101156.zip) Way forward for connected mode neighbour cell measurement in NB-IoT Qualcomm Incorporated discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core R2-2009789

[R2-2101329](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101329.zip) On the solution for reduction of RLF detection time Nokia Solutions & Networks (I) discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6

[R2-2101396](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101396.zip) Reducing time taken for reestablishment procedures in NB-IoT Ericsson discussion

[R2-2101397](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101397.zip) Summary of NB-IoT AI 9.1.2 neighbor cell measurements before RLF Ericsson discussion Late

[R2-2101399](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101399.zip) draft LS Measurements for Reducing time for RRC Reestablishment Ericsson LS out Rel-17 To:RAN4

[R2-2101836](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101836.zip) Measurement before radio link failure MediaTek Inc. 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

Including Summary of AI 9.1.3 (Huawei).

[R2-2100326](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100326.zip) Paging carriers configuration and selection ZTE Corporation, Sanechips discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core R2-2009059

[R2-2100512](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100512.zip) Paging carrier selection procedure based on CEL Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2100671](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100671.zip) Further discussion on enhanced paging carrier selection and NPRACH carrier selection Spreadtrum Communications discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2101044](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101044.zip) Paging carrier selection improvements Huawei, HiSilicon discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2101045](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101045.zip) Summary of contributions on Paging carrier selection improvements Huawei report Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core Late

[R2-2101157](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101157.zip) Support for NB-IoT carrier selection based on the coverage level Qualcomm Incorporated discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core R2-2009790

[R2-2101395](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101395.zip) NB-IoT carrier selection and configuration based on coverage level Ericsson discussion

[R2-2101839](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101839.zip) Carrier selection enhancement MediaTek Inc. discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

### 9.1.4 Other

Includes WI objectives led by other WGs.

[R2-2101046](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101046.zip) Discussion on 16-QAM for NB-IoT Huawei, HiSilicon discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2101047](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101047.zip) Support of 14 HARQ Processes in DL, for HD-FDD Cat M1 Ues Huawei, HiSilicon discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2101398](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101398.zip) Support of 16-QAM for unicast in UL and DL in NB-IoT Ericsson discussion

## 9.2 SI on NB-IoT and eMTC support for NTN

(FS\_LTE\_NBIOT\_eMTC\_NTN; leading WG: RAN1; REL-17; SID: RP-202689)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

AT meeting email discussions to be defined after 1st on-line session.

### 9.2.1 Organizational and scenarios

Rapporteur Input, incoming LSes, RAN2 aspects of identifying scenarios.

LS in

[R2-2100002](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100002.zip) Timer for periodic network selection attempts in satellite access (C1-207766; contact: OPPO) CT1 LS in Rel-17 5GSAT\_ARCH-CT To:SA1 Cc:RAN2, CT6

* Noted

Work Plan

[R2-2101409](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101409.zip) FS\_LTE\_NBIOT\_eMTC\_NTN work plan Eutelsat S.A. Work Plan Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

* Noted
* [AT113-e][035][IoT NTN] General (Eutelsat)

1) TP reflecting agreements up to last meeting, based on [R2-2102418](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102418.zip),

Intended outcome: Endorsed TP

Deadline: Interactive Discussion, Stop when agreement is reached or at EOM. Companies are requested to comment Asap.

CLOSED

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

Scope: Update the TP to include progress from current meeting

Intended outcome: Endorsed TP

Deadline: Short

TPs for TR

[R2-2101455](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101455.zip) Skeleton TR 36.763 Study NB-IoT / eMTC support for NTN MediaTek Inc. discussion Rel-17 36.763 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2102246](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102246.zip) Text proposal for TR 36.763 related to RAN2 Eutelsat S.A. pCR Rel-17 36.763 0.0.1 FS\_LTE\_NBIOT\_eMTC\_NTN

- MTK explains that the TP reflects previous meetings agreements and the TP is new.

* Treat by email

[R2-2102418](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102418.zip) Text proposal for TR 36.763 related to RAN2 Eutelsat S.A. pCR Rel-17 36.763 0.0.1 FS\_LTE\_NBIOT\_eMTC\_NTN

From [035] DISCUSSION ON-Line Feb 3

- Eutelsat explains that this is the working document from [035].Tthink a clean version without comments are needed for final approval. One issue is where GNSS Cap requirements shall be placed. Currently it is in an editors note.

- Nokia had a comment on B.2 that target performance requirements need to be present for mobility, so there should be an FFS note. Chair wonder which requirements should be there? Nokia think throughput is one requirement and device density. Chair think throughput as a function of mobility is a R1 topic, and density can be interesting but wonder why that should be considered a mobility topic.. ZTE think we can consider mobility for eMTC UEs, and consider the load of many handovers.

- Chair think connection density may make sense to look at in general, i.e. evaluate what we can expect from a system. However to do that a traffic model would need to be assumed. Chair believes that a longer process of first establishing requirements and later try to verify requirement fulfilment is a long-winded process. Think that instead we can just evaluate what performance we can expect if we reuse current NB-IoT and eMTC as much as possible. IDT agrees that device/connection density is interesting to look at.

- QC think that performance is R1 scope.

- Chair: think we can accept input estimating what can be achieved wrt performance: Connection density seems to be in R2 scope. Maybe some part of mobility is also in RAN2 scope.

- Ericsson think that in the TP there are MS Word bubble-comments on everything, the TR cannot even be endorsed. Eutelsat think most comments have indeed been addressed. Ericsson think it is not sufficient to have options in the comment boxes, but they should be in the body text of the TP.

* Will continue by email [035], remaining comments to be addressed, if any

[R2-2102492](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102492.zip) Text proposal for TR 36.763 related to RAN2 Eutelsat S.A. pCR Rel-17 36.763 0.0.1 FS\_LTE\_NBIOT\_eMTC\_NTN

- [035] Chairman: RAN2 need to further update the TP to include progress including R2 113-e this meeting. Will be done in a short email discussion.

* [035] Endorsed (reflects progress up to R2 112-e)

Scenarios and Requirements

[R2-2101052](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101052.zip) Discussion on scenarios for NTN NB-IoT Huawei, HiSilicon discussion FS\_LTE\_NBIOT\_eMTC\_NTN

DISCUSSON

- QC are ok with p1 but think it is also for eMTC

- Eutelsat have drafted a LS to R3. Think this is not a RAN2 decision.

- CMCC think there is no need for P3.

- Huawei explains that almost no feature is supported for TDD (e.g. the later releases).

- Nokia think 5GC has lower priority, and this need to be studied first. Huawei think 5GC is simpler as all NTN features can be resued. No need to study.

- ZTE agree with P1. And are ok with P2 and P3.

- QC wonder if P2 is for Idle and Connected. Huawei think the proposal is for both.

* NTN IoT connected to 5GC is assumed, in addition to EPC (but there seems to be consensus that 5GC has lower urgency/priority)
* From RAN2 point of view, support for NB-IoT multi-carrier and single-carrier operations are both assumed as a baseline.

[R2-2101258](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101258.zip) Market expectations for IoT over NTN NOVAMINT discussion

=> Revised in [R2-2102255](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102255.zip)

[R2-2102255](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102255.zip) Market expectations for IoT over NTN NOVAMINT discussion

- Chair can consider P2 and P3 during the work, but it is difficult to make hard decisions now. P1 is RP scope.

* Noted

[R2-2101553](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101553.zip) IoT NTN scenarios and architecture Ericsson discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

- Ericsson explains that the reason is to simplify mobility.

- Eutelsat want to keep both possibilities.

- Samsung think that if mobility is an issue then both earth moving and eath fixed will have problems.

- Apple think we don’t need to narrow down the scope now, and we can use the knowledge from NTN NR WI. Sony agrees.

- QC think we can consider reductions when setting the recommendations from the SI.

Chair: no support for P4 for now

* Noted

[R2-2101408](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101408.zip) IoT-NTN basic architecture Eutelsat S.A. discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

=> Revised in [R2-2102245](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102245.zip)

[R2-2102245](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102245.zip) IoT-NTN basic architecture Eutelsat S.A. discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

=> Revised in [R2-2102258](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102258.zip)

[R2-2102258](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102258.zip) IoT-NTN basic architecture Eutelsat S.A. discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

* Noted

LS out

[R2-2101401](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101401.zip) Draft LS on IoT-NTN basic architecture Eutelsat S.A. LS out Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN To:RAN3

=> Revised in [R2-2102244](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102244.zip)

[R2-2102244](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102244.zip) Draft LS on IoT-NTN basic architecture Eutelsat S.A. LS out Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN To:RAN3

=> Revised in [R2-2102257](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102257.zip)

[R2-2102257](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102257.zip) Draft LS on IoT-NTN basic architecture Eutelsat S.A. LS out Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN To:RAN3

DISCUSSION

- Ericsson and QC think maybe we should keep the name EUTRA as it is used as name in most TSes, Samsung agrees,

- Sony think the last sentence is wrong.

* E-UNTRAN change to E-UTRAN (NTN) or similar (keep E-UTRAN), and there are other comments
* Revise by email [035]

[R2-2102271](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102271.zip) [Draft] LS on IoT-NTN basic architecture Eutelsat S.A LS out

- Ericsson has commented twice.

- Ericsson think the figures are not needed. Ericsson think a similar discussion has been done for NR NTN, and if we use a figure it should be based on the agreed NR NTN figure. Eutelsat think the agreed figure for NR NTN is more detailed and doesn’t support EPS. Ericsson can accept the LS if there is no other company with concerns.

- Huawei think the LS is ok as it is.

- MCC think that figures shall be visible in draft mode in general for LSes, but no need to fix here.

- QC comment that the MSword comments need to be removed

* Approved, final version in [R2-2102420](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102420.zip)

### 9.2.2 User Plane

Including necessary changes to support NB-IoT and eMTC over satellite, reusing as much as possible the conclusions of the studies performed for NR NTN in TR38.821, related to HARQ operation, and related to timers (e.g. SR, DRX, etc.)

This agenda item may utilize a summary document on IoT NTN SI UP.

[R2-2102251](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102251.zip) Summary of AI 9.2.2 on user plane for IoT NTN OPPO discussion

DISCUSSION

P1

- OPPO clarifies that the proposals considered is different number of HARQ processes, and HARQ disable. We need R1 input. Nokia agrees that R1 input is needed.

- MTK think R2 scope is just HARQ disable.

P2

- Ericsson agrees but think the range need to be extended

P4

- Huawei think we should assume all R16 features, and we keep this assumption until problems are found. QC agrees. ZTE agree in general but for PUR we found some problem. Apple agrees as well. Ericsson think we can assume from R2 point of view that all features are supported.

- IDT think the concerns are reflected in P5.

* No of HARQ processes is R1 scope
* Enable / disable HARQ feedback is R2 scope
* Modify *sr-ProhibitTimer* for larger values to support IoT NTN. Alignment to NR NTN can be considered.
* Extend the value range of *t-Reordering* to support IoT NTN.
* From RAN2 point of view, assume that all IoT features up to R16 are supported, and can consider differently case by case when/if problems are found.

[R2-2100165](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100165.zip) Discussion on UP issues for IoT over NTN OPPO discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2100180](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100180.zip) IOT NTN user plane related issues Beijing Xiaomi Mobile Software discussion Rel-17

[R2-2100265](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100265.zip) On Disabling HARQ Retransmissions in IoT-NTN MediaTek Inc. discussion

[R2-2100329](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100329.zip) Consideration on user plane of IoT over NTN ZTE Corporation, Sanechips discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2100736](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100736.zip) Enhancement to HARQ process Qualcomm Incorporated discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2100737](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100737.zip) Applicability of eMTC and NB-IoT feature in NTN Qualcomm Incorporated discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2101053](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101053.zip) Discussion on User Plane for NTN NB-IoT Huawei, HiSilicon discussion FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2101064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101064.zip) Discussion on IoT over NTN HARQ enhancements Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2101130](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101130.zip) Considerations on PUR in IoT NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2101554](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101554.zip) HARQ operation and timers for IoT NTN Ericsson discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

* 10 tdocs above Noted

### 9.2.3 Mobility and Tracking Area

Including necessary changes to support NB-IoT and eMTC over satellite, reusing as much as possible the conclusions of the studies performed for NR NTN in TR38.821. RAN2 aspects related to idle mode and connected mode mobility: RLF-based for NB-IoT, Handover-based for eMTC.

This agenda item utilizes a summary document on IoT NTN SI Mobility and Tracking (MediaTek).

* [AT113-e][036][IoT NTN] Mobility and Tracking Area (Mediatek)

Starting from [R2-2102419](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102419.zip).

Agree P2-P6 or modified variants thereof.

Intended outcome: Report

Deadline: Interactive Discussion, Stop when agreement is reached or at EOM. Companies are requested to comment Asap.

[R2-2102248](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102248.zip) Summary for Control Plane Procedures in IoT-NTN MediaTek Inc. discussion

[R2-2102419](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2102419.zip) Summary for Control Plane Procedures in IoT-NTN MediaTek Inc. discussion

DISCUSSION

P1

- QC agrees and think that CHO is very useful. Think CHO is not supported in enhanced coverage currently.

- Huawei think it cannot be supported for LTE 5GC scenario per decision in the LTE MOB session. Chair think that if this is the case then that indeed applies.

- Oppo think that for the second part wonder why new measurements are not precluded. MTK explains that this was proposed by Ericsson. MTK think how to take into account location might result in some new combinations. MTK would be ok to remove. Ericsson think we haven’t really discussed whether CHO really works, e.g. as QC commented maybe something is needed in Enh Coverage. ZTE are ok to not exclude new measurement for now, also for power saving. QC also ok.

- Nokia think (iii) is ok, it has been agreed for NR NTN. Xiaomi agrees with (iii)

- Huawei are ok.

* For eMTC in NTN

CHO can be used for both moving cell and fixed cell scenarios, and the CHO procedure and execution condition defined in Rel-16 is the baseline.

(i) The existing measurement framework for CHO (e.g. measurement configuration, execution) is the baseline.

(ii) The existing eMTC measurement criteria and event can be used in NTN. Support for new measurement would need justification, but is not precluded, e.g. for enh coverage.

(iii) Time or timer based and Location based CHO triggering event, in combination with the existing R16 CHO measurement based event, can be introduced for both moving cell and fixed cell scenarios. Support for new triggering events is not precluded.

(note that LTE CHO isn’t supported for 5GC, and same assumptions as LTE applies).

CHAIR: Will go for email Agreement for P2-P6

* [036] Rel-17 RLF enhancements in NB-IoT can be considered in NB-IOT NTN, if applicable. Further enhancements on RLF-based mobility can be considered, e.g. by using satellite assistance (ephemeris) information.
* [036] RAN2 will capture the options for signalling of Tracking Areas in the TR and wait for progress in NR-NTN for possible updates, if applicable to IoT NTN.
* [036] Paging capacity is evaluated using the same methodology captured in TR 38.821 as the baseline.
* [036] RAN2 will evaluate the paging capacity and the impact on the size of the Tracking Area considering the target IoT NTN device density captured in TR 36.763.
* [036] RAN2 will use cell selection/re-selection mechanism of NB-IoT/eMTC as ~~a~~ baseline. Enhancements introduced for cell selection/re-selection mechanism in NR NTN will be considered if applicable to IoT-NTN.
* [036] Cell selection/re-selection mechanism in IoT-NTN can be enhanced by using satellite assistance (e.g. ephemeris) information (similar to NR-NTN). RAN2 will wait for RAN1’s progress about the details of satellite ephemeris information.

[R2-2100166](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100166.zip) Discussion on connected mode mobility for IoT over NTN OPPO discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2100167](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100167.zip) Discussion on idle mode procedure for IoT over NTN OPPO discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2100257](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100257.zip) IoT NTN Observations and Proposals Lockheed Martin discussion Rel-17

[R2-2100263](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100263.zip) Improving Tracking Area Updates in IoT-NTN MediaTek Inc. discussion

[R2-2100264](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100264.zip) On Efficient Cell Re-selection in IoT-NTN MediaTek Inc. discussion

[R2-2100266](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100266.zip) Connected Mode Mobility in IoT-NTN MediaTek Inc. discussion

[R2-2100338](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100338.zip) Consideration on control plane of IoT over NTN ZTE Corporation, Sanechips discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2100510](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100510.zip) Analysis of mobility aspects for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-16

[R2-2100541](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100541.zip) Discussion on the service link discontinuity and affected procedures for NB-IoT NTN Gatehouse, Sateliot discussion Withdrawn

[R2-2100738](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100738.zip) Connected mode and idle mode mobility Qualcomm Incorporated discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2100807](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100807.zip) Discussion on connected mode mobility in NB-IoT and eMTC NTN Xiaomi discussion

[R2-2100808](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100808.zip) Cell selection and reselection for IoT NTN Xiaomi discussion

[R2-2101054](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101054.zip) Discussion on Mobility and TA for NTN NB-IoT Huawei, HiSilicon discussion FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2101131](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101131.zip) Discontinuous coverage for IoT NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2101132](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101132.zip) RLF-based mobility for NB-IoT in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2101248](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101248.zip) Discussion on the service link discontinuity and affected procedures for NB-IoT NTN Gatehouse, Sateliot discussion

[R2-2101555](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101555.zip) Idle and connected mode mobility for IoT NTN Ericsson discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

* 17 tdocs above Noted

### 9.2.4 Other

Including e.g. System information enhancements.

SI broadcast

[R2-2101055](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101055.zip) Discussion on SI for NTN NB-IoT Huawei, HiSilicon discussion FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2100739](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100739.zip) Enhancement to SIB acquisition Qualcomm Incorporated discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2100168](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100168.zip) Discussion on system information enhancement for IoT over NTN OPPO discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

Functionality Scope

[R2-2100339](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100339.zip) Consideration on other aspects of IoT over NTN ZTE Corporation, Sanechips discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2100511](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100511.zip) Applicability terrestrial IoT Features for IoT-NTN study Nokia, Nokia Shanghai Bell discussion Rel-17

System performance

[R2-2101556](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101556.zip) Connection density evaluation for IoT NTN devices Ericsson discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

R1’ish

[R2-2101065](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101065.zip) On timing and channel repetition impact in LEO Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

## 9.3 EUTRA R17 Other

Time budget: 0 TU

Tdoc Limitation: X tdocs

Email max expectation: X threads

[R2-2100003](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100003.zip) User location identification from Carrier Aggregation secondary cell activation messages (FSAG Doc 88\_009; contact: GSMA) GSMA LS in To:RAN2, SA3

*(moved from 3)*

[R2-2100483](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100483.zip) UE location attack based on SCell activation Ericsson discussion Rel-17

[R2-2101831](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101831.zip) Discussion on user location identification from SCell Activation message Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2100645](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100645.zip) Introduction of event-based trigger for LTE MDT logging KDDI Corporation, Samsung draftCR Rel-16 36.331 16.3.0 TEI16 Withdrawn

[R2-2100818](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100818.zip) Introduction of event-based trigger for LTE MDT logging KDDI Corporation, Samsung draftCR Rel-16 36.331 16.3.0 TEI16

[R2-2100819](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100819.zip) Introduction of event-based trigger for LTE MDT logging KDDI Corporation, Samsung draftCR Rel-17 36.331 16.3.0 TEI17

[R2-2100821](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100821.zip) Introduction of event-based trigger for LTE MDT logging KDDI Corporation, Samsung draftCR Rel-16 37.320 16.3.0 TEI16

[R2-2100823](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100823.zip) Introduction of event-based trigger for LTE MDT logging KDDI Corporation, Samsung draftCR Rel-17 37.320 16.3.0 TEI17

[R2-2100939](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100939.zip) Introduction of event-based trigger for LTE MDT logging KDDI Corporation discussion Revised

[R2-2101808](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101808.zip) Introduction of event-based trigger for LTE MDT logging KDDI Corporation, CMCC, Samsung discussion [R2-2100939](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100939.zip)

## 9.4 NR and EUTRA Inclusive language

Time budget: N/A

TS rapporteurs to provide CRs for Inclusive languange according to RP-202179. It is expected that this is handled mostly by email. CRs are to be endorsed/agreed-in-principle and will be submitted to RP for information. Final approval is expected when R17 TSes are to be created.

[R2-2100081](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100081.zip) LS on Use of Inclusive Language in 3GPP (SP-201143; contact: Intel) SA LS in Rel-17 To:SA1, SA2, SA3, SA4, SA5, SA6, RAN1, RAN2, RAN3, RAN4, RAN5, CT1, CT3, CT4, CT6 Cc:RAN, CT

*(moved from 3)*

[R2-2100689](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100689.zip) Inclusive Language Review Nokia (Rapporteur) draftCR Rel-17 38.300 16.4.0 D TEI17

[R2-2100691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100691.zip) Inclusive Language Handling Nokia, Nokia Shanghai Bell discussion Rel-17 TEI17

[R2-2100956](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2100956.zip) Inclusive language in 36.300 Nokia (Rappporteur) CR Rel-17 36.300 16.4.0 1333 - D TEI17

[R2-2101079](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101079.zip) Inclusive language in 36.304 Nokia, Nokia Shanghai Bell CR Rel-17 36.304 16.3.0 0822 - D TEI17

[R2-2101287](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101287.zip) Inclusive language Ericsson draftCR Rel-16 38.331 16.3.1 D TEI16

[R2-2101454](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101454.zip) Inclusive language in 37.320 Nokia (Rapporteur) draftCR Rel-17 37.320 16.3.0 D TEI17

[R2-2101472](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101472.zip) Introduction of inclusive language in RAN2 specifications Intel Corporation discussion Rel-17 TEI17

# 10Breakout session reports

No documents shall be submitted to this AI or its sub-AIs. It is only for at-meeting-generated contents.

Breakout session reports will be approved by email.

## 10.1 Session on LTE legacy, Mobility, DCCA, Multi-SIM and RAN slicing

[R2-2101951](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101951.zip) Report from session on LTE legacy, LTE TEI16 and NR/LTE Rel-16 Mobility Vice Chairman (Nokia)

* [Rev1] The tdoc R2-2102470 was erroneously indicated as Agreed. Correction: instead the tdoc in R2-2102479 is agreed, only the number was wrong (correction to be applied in MCC final meeting minutes and tdoc list).

## 10.2 Session on R16 eMIMO, CLI, PRN, RACS and R17 NTN and RedCap

[R2-2101952](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101952.zip) Report from Break-Out Session on SRVCC, CLI, PRN, eMIMO, RACS Vice Chairman (ZTE)

## 10.3 Session on eMTC

[R2-2101953](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101953.zip) Report eMTC breakout session Session chair (Ericsson)

## 10.4 Session on NR-U, Power Savings, NTN and 2-step RACH

[R2-2101954](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101954.zip) Session minutes for NR-U, Power Savings, NTN and 2-step RACH Session chair (InterDigital)

## 10.5 Session on positioning and sidelink relay

[R2-2101955](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101955.zip) Report from session on Rel-15 and 16 LTE and NR positioning Session chair (MediaTek)

## 10.6 Session on SON/MDT

[R2-2101956](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101956.zip) Report from SOM/MDT session Session chair (CMCC)

* [Rev1] Issues were found in the SON/MDT Agreed CR in R2-2102331 (36.331). Revise the CR in a short email discussion

## 10.7 Session on NB-IoT

[R2-2101957](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101957.zip) Report NB-IoT breakout session Session chair (Huawei)

## 10.8 Session on LTE V2X and NR V2X

[R2-2101958](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_113-e\Docs\R2-2101958.zip) Report from session on LTE V2X and NR V2X Session chair (Samsung)