3GPP TSG-RAN WG2 Meeting #119bis-e R2-22xxxxx

Online, October 2022

Source: Session Chair (Apple)

Title: Report from session on NCR

# Status of At-Meeting Email Discussions

This subclause is not an Agenda Item. It contains a running summary of the email discussions assigned to take place during the meeting weeks. This section will be moved to an appendix in the final version of the report.

* [AT119-e][700][NCR] Organisational Sasha – NCR (Apple)

Scope: Organisational discussions and announcements, as needed throughout the meeting weeks

Intended outcome: Well-informed participants

Deadline: Wednesday 2022-10-19 1000 UTC

## 8.1 NR network-controlled repeaters

(NR\_NetConRepeater; leading WG: RAN1; REL-18; WID: RP-222673)

Time budget: 0.5 TU

Tdoc Limitation: 1 tdocs

### 8.1.1 Organizational

Including LSs and any rapporteur inputs.

[R2-2209328](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209328.zip) LS on NCR Solutions (R3-225253; contact: ZTE) RAN3 LS in Rel-18 FS\_NR\_netcon\_repeater To:SA3, SA5 Cc:RAN2, SA2

[R2-2209329](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209329.zip) Progress on NCR identification and authorization (R3-225254; contact: ZTE) RAN3 LS in Rel-18 FS\_NR\_netcon\_repeater To:RAN1 Cc:RAN2

[R2-2210294](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210294.zip) Work plan for Network-controlled repeaters ZTE Corporation, Sanechips Work Plan Rel-18 FS\_NR\_netcon\_repeater

### 8.1.2 Signalling for side control information

Signalling and procedures for for side control information, based on RAN1 agreements. Additionally, any other RAN2 reletated aspects, if needed.

[R2-2210920](Inbox/R2-2210920.zip) Report of [AT119bis-e][NCR] NCR open issues (ZTE)

Proposal 1 RAN2 confirms to use RRC signalling to configure NCR-MT to receive side control information. How the side control information itself is transmitted (e.g. via RRC or DCI or MAC CE) is up to RAN1.

Proposal 2 NCR-MT supports RRC\_CONNECTED and RRC\_IDLE states, FFS on RRC\_INACTIVE state (e.g. optional support or not support).

Proposal 3 NCR-MT supports SRB0/1/2 and DRB. FFS whether DRB is optional feature for NCR-MT.

Proposal 4 The association between RRC states of NCR-MT and NCR-Fwd ON/OFF is pending RAN1 progress.

Proposal 5 NCR-MT should ignore cellBarred, cellReservedForOperatorUse, cellReservedForFutureUse，cellReservedForOtherUse, intraFreqReselection indications and UAC configuration if broadcast in system information.

Proposal 6 From RAN2 perspective, the following RRM functions are applicable to NCR-MT:

* Cell (re)selection;
* RLM;
* BFD, BFR;
* FFS the applicable features are mandatory or optional

Proposal 7 To discuss whether the following RRM functions are applicable to NCR-MT:

* RRM measurements in RRC\_IDLE and RRC\_INACTIVE (if supported);
* RRM measurements in RRC\_CONNECTED;
* handover

[R2-2210155](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210155.zip) Discussion on signalling for side control information CMCC discussion Rel-18 NR\_netcon\_repeater

[R2-2210279](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210279.zip) Signalling for NCR side control information MediaTek Inc. discussion Rel-18

[R2-2210334](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210334.zip) Discussion on RAN2 topics for NCR Ericsson discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2210295](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210295.zip) Consideration on NCR signalling and RRM functions ZTE Corporation, Sanechips discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2210454](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210454.zip) Discussion on NCR capability framework Philips International B.V. discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2209367](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209367.zip) Signaling for side control information and RRM functions CATT discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2209630](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209630.zip) Discussion on C-plane aspects for NCR-MT Fujitsu discussion Rel-18 NR\_netcon\_repeater

[R2-2209639](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209639.zip) Signalling of side control information for NCR Intel Corporation discussion Rel-18 NR\_netcon\_repeater

[R2-2209667](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209667.zip) Discussion on NCR configuration signaling and RRM functions Huawei, HiSilicon discussion Rel-18 NR\_netcon\_repeater

[R2-2209680](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209680.zip) NCR side control signalling and other RRC and RRM aspects Nokia, Nokia Shanghai Bell discussion NR\_netcon\_repeater

[R2-2209697](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209697.zip) Signalling for side control information to support NR network-controlled repeaters AT&T, FirstNet discussion

[R2-2209705](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209705.zip) Configuration of signaling for side control information Qualcomm Inc. discussion Rel-18 FS\_NR\_netcon\_repeater

[R2-2209773](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209773.zip) Discussion on Signaling for Side Control Information Apple discussion Rel-18 DUMMY

[R2-2209933](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209933.zip) Discussion on Signaling and procedures for side control information Lenovo discussion Rel-18

[R2-2210135](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210135.zip) Control plane signaling and procedures of network-controlled repeater NEC Corporation discussion

[R2-2210155](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210155.zip) Discussion on signalling for side control information CMCC discussion Rel-18 NR\_netcon\_repeater

[R2-2210200](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210200.zip) Network-controlled repeaters - key issues Samsung R&D Institute UK discussion

[R2-2210207](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210207.zip) Considerations on NCR fwd link config Sony discussion Rel-18 NR\_netcon\_repeater

[R2-2210386](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210386.zip) Discussion on NCR Related Procedures vivo discussion Rel-18

[R2-2210431](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210431.zip) Consideration of network-controlled repeaters Kyocera discussion Rel-18 R2-2208293

[R2-2210563](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210563.zip) Discussion on RAN2 issues for NCR LG Electronics discussion Rel-18 NR\_netcon\_repeater

[R2-2210572](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2210572.zip) On RAN2 impact of Network-Controlled Repeaters China Telecom Corporation Ltd. discussion

### 8.1.3 Repeater management

Including Identification and authorization of network-controlled repeaters, taking into accout feedback from SA3.

Note: we will wait for SA3 reply, so no contributions are expected to be treated in RAN2#119-bis.

[R2-2209706](file:///C:\Users\mtk65284\Documents\3GPP\tsg_ran\WG2_RL2\TSGR2_119bis-e\Docs\R2-2209706.zip) Management of Network-Controlled Repeater Qualcomm Inc. discussion Rel-18 FS\_NR\_netcon\_repeater