**3GPP TSG RAN WG1 #122 R1-250XXXX**

**Bengaluru, India, Aug 25th – 29th, 2025**

Agenda Item: 8.2

Source: Ad-Hoc Chair (Ericsson)

Title: Session notes for 8.2 Maintenance on NR MIMO Phase 5

Document for: Discussion, Decision

## Maintenance on NR MIMO Phase 5

[122-R19-MIMO] Email discussion on MIMO – Eko (Samsung)

* To be used for sharing updates on online/offline schedule, details on what is to be discussed in online/offline sessions, tdoc number of the moderator summary for online session, etc

### Enhancements for UE-initiated/event-driven beam management

R1-2505158 Remaining issues on UE-initiated/event-driven beam management Spreadtrum, UNISOC

R1-2505205 Maintenance of UE-initiated/event-driven beam management Huawei, HiSilicon

R1-2505236 Maintenance of UE/Event-Driven Beam Management InterDigital, Inc.

R1-2505267 Maintenance on enhancements for UE-initiated/event-driven beam management ZTE Corporation, Sanechips

R1-2505320 Maintenance on UE-initiated/event-driven beam report CATT

R1-2505370 Maintenance on UE-initiated/event-driven beam management vivo

R1-2505427 Maintenance on UE-initiated/event-driven beam management Xiaomi

R1-2505476 Remaining issue on UE-initiated/event-driven beam management MediaTek Inc.

R1-2505533 Remaining issues on Rel-19 UE-initiated/event-driven beam management Samsung

R1-2505609 Maintenance for UE-initiated beam management Ericsson

R1-2505658 Discussion on UE-initiated/event-driven beam management Ofinno

R1-2505735 Remaining Issues of UE-initiated/event-driven beam management OPPO

R1-2505808 Maintenance on UE-initiated/event-driven beam management Lenovo

R1-2505816 Remaining issues on UE-initiated beam management LG Electronics

R1-2505875 Remaining issues for UE-initiated/event-driven beam management Apple

R1-2505929 Remaining issues on UE-initiated event-driven beam management NEC

R1-2505943 Maintenance on UE-initiated/event-driven beam management Transsion Holdings

R1-2505959 Remaining issues on enhancements for UE-initiated/event-driven beam management Fujitsu

R1-2506051 Enhancements for UE-initiated/event-driven beam management ETRI

R1-2506138 Maintenance topics on UE-initiated/event-driven beam management Panasonic

R1-2506160 Maintenance of enhancements to facilitate UE-initiated/event-driven beam management Nokia

R1-2506175 UE-initated/event-driven beam management Qualcomm Incorporated

R1-2506253 Moderator Summary #1 on UE-initiated/event-driven beam management Moderator (ZTE)

R1-2506254 Moderator Summary #2 on UE-initiated/event-driven beam management Moderator (ZTE)

R1-2506255 Moderator Summary #3 on UE-initiated/event-driven beam management Moderator (ZTE)

R1-2506265 Enhancements for UE-initiated/event-driven beam management Sharp

R1-2506272 Maintenance on Enhancements for UE-initiated/event-driven beam management NTT DOCOMO, INC.

R1-2506316 Correction of UEIRI reporting in PUCCH ITRI, Acer Incorporated

R1-2506348 Maintenance on enhancements for UE-initiated or event-driven beam management Google

### CSI enhancements

R1-2505206 Maintenance of 128 CSI-RS ports and UE reporting enhancement Huawei, HiSilicon

R1-2505255 CSI Enhancement for NR MIMO Google

R1-2505268 Maintenance on CSI enhancements ZTE Corporation, Sanechips

R1-2505321 Maintenance on Rel-19 CSI enhancements CATT

R1-2505371 Maintenance on Rel-19 CSI enhancements vivo

R1-2505428 Maintenance on Rel-19 CSI enhancement Xiaomi

R1-2505534 Remaining issues on Rel-19 CSI enhancements Samsung

R1-2505535 Moderator summary#1 on Rel-19 CSI enhancements: Round 1 Moderator (Samsung)

R1-2505736 CSI enhancements for Rel-19 MIMO OPPO

R1-2505809 Maintenance on CSI enhancements Lenovo

R1-2505817 Maintenance on CSI enhancements LG Electronics

R1-2506042 Maintenance on Rel. 19 MIMO CSI enhancements Fraunhofer IIS, Fraunhofer HHI

R1-2506161 Maintenance of CSI enhancement for NR MIMO Phase 5 Nokia

R1-2506167 Maintenance on CSI enhancements for large antenna arrays and CJT Ericsson

R1-2506176 Maintenance on Rel-19 CSI for >32 ports and UE-assisted CJT Qualcomm Incorporated

R1-2506273 Maintainance on CSI enhancements NTT DOCOMO, INC.

### Support for 3-antenna-port codebook-based transmissions

R1-2505207 Maintenance of 3-antenna-port UL transmission Huawei, HiSilicon

R1-2505237 FL Summary Support for 3TX CB-based Uplink; First Round Moderator (InterDigital, Inc.)

R1-2505256 Uplink 3 Port Codebook based Transmission Google

R1-2505269 Maintenance on 3-antenna-port codebook-based transmissions ZTE Corporation, Sanechips

R1-2505322 Maintenance on 3-antenna-port uplink transmission CATT

R1-2505372 Maintenance on 3-antenna-port codebook-based uplink transmissions vivo

R1-2505422 Maintenance for 3 Tx UL transmissions Ericsson Japan K.K.

R1-2505429 Maintenance on the support of 3-antenna-port CB based transmissions Xiaomi

R1-2505536 Remaining issues on Rel-19 3-antenna-port codebook-based transmissions Samsung

R1-2505737 Discussion on 3-antenna-port uplink transmissions OPPO

R1-2505938 Remaining issues of CSI enhancements NEC

### Enhancement for asymmetric DL sTRP/UL mTRP scenarios

R1-2505208 Maintenance of asymmetric DL sTRP/UL mTRP scenarios Huawei, HiSilicon

R1-2505270 Maintenance on enhancements for asymmetric DL sTRP/UL mTRP scenarios ZTE Corporation, Sanechips, China Telecom

R1-2505323 Maintenance on asymmetric DL sTRP and UL mTRP scenarios CATT

Withdrawn

R1-2505373 Maintenance on asymmetric DL sTRP/UL mTRP scenarios vivo

R1-2505430 Maintenance on enhancement for asymmetric DL sTRP/UL mTRP scenarios Xiaomi

R1-2505537 Remaining issues on Rel-19 asymmetric DL sTRP/UL mTRP scenarios Samsung

R1-2505659 Maintenance of MIMO asymmetric DL sTRP/UL mTRP scenario Ofinno

R1-2505738 Enhancements on asymmetric DL sTRP/UL mTRP scenarios OPPO

R1-2505810 Maintenance on the enhancement for asymmetric DL sTRP/UL mTRP scenarios Lenovo

R1-2505824 Remaining issues on asymmetric DL sTRP UL mTRP scenarios Ericsson

R1-2505939 Remaining issues on enhancement for asymmetric DL sTRP and UL mTRP scenarios NEC

R1-2506162 Maintenance of Enhancement for asymmetric DL sTRP/UL mTRP scenarios Nokia

R1-2506177 Maintenance for asymmetric DL sTRP and UL mTRP deployment scenarios Qualcomm Incorporated

R1-2506349 Maintenance on enhancement for asymmetric DL sTRP and UL mTRP scenarios Google