**3GPP TSG-RAN WG1 Meeting #114 R1-23xxxxx**

**Toulouse, France, 21-25 August, 2023**

**Agenda Item: 9.17**

**Source: Moderator (Huawei)**

**Title: Summary of email discussion [Post114-38.212-NR\_MIMO\_evo\_DL\_UL]**

**Document for: Discussion and Decision**

# Introduction

This document summarizes the discussions on the 38.212 draft CR on NR MIMO Evolution for Downlink and Uplink, and aims to stabilize the 38.212 draft CR.

[Post114-38.212-NR\_MIMO\_evo\_DL\_UL] Email discussion on Rel-18 draft CRs by September 7 – Editors

# First round discussions

This section summarize the first round email discussions on draft CR v00. Companies are encouraged to provide the first round views by 09/05 (Tuesday), 6:00am UTC, then we can update the draft CR accordingly for the next step discussions.

## Multi-TRP enhancements

Please provide your comments/suggestions on Multi-TRP enhancements here, including unified TCI framework and two TAs for multi-DCI.

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| *Company* | *View* |
| Editor | The changes are marked with author “Yan Cheng\_post RAN1#114” on top of the version R1-2306315 endorsed in RAN1#113, which are to reflect the agreements RAN1#114. |
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## CSI enhancements

Please provide your comments/suggestions on CSI enhancements here, including CSI enhancement for high/medium UE velocities and coherent JT (CJT).

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## Reference signal enhancement

Please provide your comments/suggestions on Reference signal enhancements here, including increased number of orthogonal DMRS ports and SRS enhancements.

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## Enhanced uplink transmission

Please provide your comments/suggestions on enhanced uplink transmission here, including UL precoding indication for multi-panel transmission and SRI/TPMI enhancement for enabling 8TX UL transmission.

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# Second round discussions

TBD