**3GPP TSG RAN WG1 #117 R1-240xxxx**

**Fukuoka, Japan, May 20th – 24th, 2024**

**Source: Moderator (NTT DOCOMO)**

**Title: FL summary on Rel-18 MIMO DMRS**

**Agenda item: 8.1**

**Document for: Discussion and Decision**

# Introduction

This document contains summary of proposals for DMRS.

* **Critical (C)**: this includes high-priority issue (essential, pending issues, broken spec components) or editorial change that either enhances the clarity of the specs or corrects mistakes in the specs.
* **Non-essential (N)**: this includes all other purposes such as spec optimization and low-priority issues.
* **Editorial (E)**: this includes editorial issues that will be handled as editorial CRs.

# Discussion

The following is the summary of issues. Draft CRs with assessment = C/E will be discussed in online.

If you have any comments, please input in “Companies’ view” for each issue.

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| --- | --- | --- | --- |
| # | Issue | Assessment | Companies’ view (please provide your view on the assessment of each issue) |
| 1 | For 8tx PUSCH, the UE reports support for one or more of ‘codebook1’, ‘codebook2’, ‘codebook3’, or ‘codebook4’. However, the current specification for 8Tx PTRS assumes codebook subset (‘full coherent’, ‘partial coherent’, or ‘non-coherent’) (R1-2405295)  FL: The issue is valid. | [C] | Critical (C): Ericsson, Docomo, Google, Samsung, ZTE, Lenovo  Non-essential (N): |
| 2 | Align RRC parameter name (R1-2404157, R1-2405230).  FL: The issue is valid. Both tdocs propose the same update. | [E] | Editorial (E): Ericsson, vivo, Docomo, Google, Samsung, ZTE, Lenovo  Non-essential (N): |
| 3 | Align UE capability name (R1-2405231).  FL: The issue is valid. | [E] | Editorial (E): Ericsson, Docomo, Google, Samsung, ZTE, Lenovo  Non-essential (N): |
| 4 | Clarify R15 DMRS port table in TS38.212 is applied when “*dmrs-TypeEnh* is not configured”.  FL: The issue is valid. | [E] | Editorial (E): Ericsson, Docomo, Google, Samsung, ZTE, Lenovo  Non-essential (N): |

# Conclusion

# References

Following draft CRs are proposed for DMRS in AI8.1 (NR\_MIMO\_evo\_DL\_UL-Core).

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| [1] | [**R1-2404157**](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_117/Docs/R1-2404157.zip) | Draft CR on RRC parameter correction for enhanced DMRS | vivo |
| [2] | [**R1-2405230**](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_117/Docs/R1-2405230.zip) | Align RRC parameters for DMRS | Ericsson |
| [3] | [**R1-2405231**](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_117/Docs/R1-2405231.zip) | Align UE capability parameters for DMRS | Ericsson |
| [4] | [**R1-2405232**](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_117/Docs/R1-2405232.zip) | Clarification on DMRS antenna port table | Ericsson |
| [5] | [**R1-2405295**](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_117/Docs/R1-2405295.zip) | Correction on PT-RS Coherence Conditions for 8 Tx | Ericsson |