3GPP TSG RAN WG1 #110bis-e R1-220xxxx

**e-Meeting, October 10th – 19th, 2022**

**Agenda item: 9.17**

**Title: FL summary #1 of remaining issues for two overlapping CRS patterns**

**Source: Moderator (ZTE Corporation)**

**Document for:** **Discussion and Decision**

# Discussion

In [[R1-2208859](../../Docs/R1-2208859.zip), OPPO], it proposes that the LTE CRS pattern lists in the following 38.211 text should also be extended to include at least *lte-CRS-PatternList3.* It may not be necessary in certain cases to include *lte-CRS-PatternList4,* because the adding of *lte-CRS-PatternList4* needs the adding of *lte-CRS-PatternList3* as a pre-requisite.

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| **7.4.1.1.2 Mapping to physical resources**  ……  For PDSCH mapping type A  ……  - single-symbol DM-RS, except if all of the following conditions are fulfilled in which case :  - the higher-layer parameter *lte-CRS-ToMatchAround*, *lte-CRS-PatternList1*, ~~or~~ *lte-CRS-PatternList2,* or *lte-CRS-PatternList3* is configured; and  *-* the higher-layer parameter *dmrs-AdditionalPosition* is equal to 'pos1' and ; and  *-* the UE has indicated it is capable of *additionalDMRS-DL-Alt*  For PDSCH mapping type B  ……  - if the higher-layer parameter *lte-CRS-ToMatchAround*, *lte-CRS-PatternList1*, ~~or~~ *lte-CRS-PatternList2*, or *lte-CRS-PatternList3* is configured, the PDSCH duration symbols for normal cyclic prefix, the subcarrier spacing configuration , single-symbol DM-RS is configured, and at least one PDSCH DM-RS symbol in the PDSCH allocation collides with a symbol containing resource elements as indicated by the higher-layer parameter *lte-CRS-ToMatchAround*, *lte-CRS-PatternList1*, ~~or~~ *lte-CRS-PatternList2*, *lte-CRS-PatternList3*, or *lte-CRS-PatternList4,* then shall be incremented by one in all slots.  …… |

## First round

Per FL’s understanding, the issue is valid and the proposed TP seems correct. Therefore, FL proposes to adopt above TP. Companies are encouraged to provide your views below.

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| Company | Views |
| OPPO | Support FL proposal. |

# Reference

1. [R1-2208859](../../Docs/R1-2208859.zip), Discussion on remaining issues in Rel-18 eDSS , OPPO.