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

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

**Agenda item:** 8.1

**Source:** Moderator (Qualcomm)

**Title:** Summary of [110bis-e-R17-MIMO-03] Email discussion on miscellaneous corrections on DL mTRP for alignment CRs

**Document for:** Discussion and Decision

1. Issue 1

Regarding Huawei’s CR, the clarification makes the spec clearer, and I did not see any concern so far (in the previous round of discussions). Regarding vivo’s CR, the following is suggested which is based on both vivo’s CR as well as SS’s suggestion (more conservative approach to ensure nothing remains ambiguous).

**Proposal 1: The following changes in red are endorsed for alignment CR (38.213, Section 10.1).**

**Note: Changing semicolon before “if any” to comma as well as starting a new sub-bullet for the text from “where” are also part of the changes.**

If a UE

- …

- is provided *two-QCLTypeDforPDCCHRepetition*

the UE monitors PDCCHs only in a first CORESET with *qcl-Type* set to first 'typeD' properties and, if any, in a second CORESET with *qcl-Type* set to second 'typeD' properties that are different than the first 'typeD' properties, and in any other CORESET from the multiple CORESETs with corresponding *qcl-Type* set to either the first 'typeD' properties ~~and/~~or to the second 'typeD' properties

- …

- excluding CSS sets and USS sets associated with CORESETs with *qcl-Type* set to first 'typeD' properties, the second CORESET corresponds to the CSS set with the lowest index in the cell with the lowest index containing CSS sets, if any~~;~~, otherwise, to the USS set with the lowest index in the cell with lowest index,

- where the CSS set or the USS set includes *searchSpaceLinkingId* with same value as any CSS set or any USS set associated with CORESETs with *qcl-Type* set to first 'typeD' properties

- the lowest USS set index is determined over all USS sets with at least one PDCCH candidate in overlapping PDCCH monitoring occasions

If a UE

- …

- one or more CORESETs have two activated TCI states, and

- reports *twoTypeDcapabilityname*

the UE monitors PDCCHs only in a CORESET with a first *qcl-Type* set to first 'typeD' properties and, if any, a second *qcl-Type* set to second 'typeD' properties that are different than the first 'typeD' properties, and in any other CORESET from the multiple CORESETs with corresponding *qcl-Type* set to the first 'typeD' properties and/or to the second 'typeD' properties

- …

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| **Company** | **Company inputs (if any)** |
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1. Issue 2

Based on the inputs in the previous round, the original TP by Huawei seems to be acceptable to all companies.

**Proposal 2: The text proposal in R1-2208475 is endorsed for alignment CR (38.213, Section 9.2.3).**

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| **Company** | **Company inputs (if any)** |
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