3GPP TSG RAN WG1 Meeting #106-e R1-210xxxx

**e-Meeting, August 16th – 27th, 2021**

Source: Moderator (ZTE)

Title: Summary of [106-e-NR-eMIMO-05] MT.1 (candidate PDSCH for mDCI)

Agenda Item: 7.2.6

**Document for: Discussion and Decision**

# Introduction

The document provides a summary for the email discussion thread [106-e-NR-eMIMO-05] MT.1 (candidate PDSCH for mDCI).

[106-e-NR-eMIMO-05] MT.1 (candidate PDSCH for mDCI) by August 20 – Chuangxin (ZTE)

Please provide your comments before August 19, then we can try to get consensus before the official deadline.

# Discussion

In the contribution R1-2106539 [1], it clarifies that multi-DCI based MTRP is introduced where two PDSCHs from two TRPs corresponding two *coresetPoolIndex* values are scheduled independently, and can be multiplexed at the same time in Rel-16. However, in the current 38.213, it is described that UE does not expect to actually receive more than one PDSCH in a same DL slot regardless of STRP or MTRP.

The suggested text proposal for **38.213 section 9.1.2.1** is as follows [1]:

**<Unchanged parts are omitted>**

If the UE indicates a capability to receive more than one PDSCH per slot, for occasions of candidate PDSCH receptions corresponding to rows of $R$ associated with a same value of , where , the UE does not expect to receive more than one PDSCH in a same DL slot if the UE is not provided with *coresetPoolIndex*, otherwise,the UE does not expect to receive more than one PDSCH in a same DL slot associated with a same *coresetPoolIndex* value.

**<Unchanged parts are omitted>**

Please companies share your comments

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| **Company** | **Comment** |
| NEC | Generally fine with the proposal. While we think it’s better to clearly describe CORESETs and coresetPoolIndex, e.g. if UE is not provided coresetPoolIndex for some CORESETs, these CORESETs are regarded as first CORESETs as defined in 38.213, same with CORESETs configured with coresetPoolIndex = 0.

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| If a UE- is not provided *coresetPoolIndex* or is provided *coresetPoolIndex* with a value of 0 for first CORESETs on active DL BWPs of serving cells, and- is provided *coresetPoolIndex* with a value of 1 for second CORESETs on active DL BWPs of the serving cells, and |

And in TS 38.213, it seems there is description for the case.

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| If a UE can support- a first set of $N\_{cells,0}^{DL}$ serving cells where the UE is either not provided *coresetPoolIndex* or is provided *coresetPoolIndex* with a single value for all CORESETs on all DL BWPs of each scheduling cell from the first set of serving cells, and- a second set of $N\_{cells,1}^{DL}$ serving cells where the UE is not provided *coresetPoolIndex* or is provided *coresetPoolIndex* with a value 0 for a first CORESET, and with a value 1 for a second CORESET on any DL BWP of each scheduling cell from the second set of serving cells |

So we think the description can be reused to simplify the change:If the UE indicates a capability to receive more than one PDSCH per slot, for occasions of candidate PDSCH receptions corresponding to rows of $R$ associated with a same value of , where , the UE does not expect to receive more than one PDSCH in a same DL slot if the UE is either not provided *coresetPoolIndex* or is provided *coresetPoolIndex* with a single value for all CORESETs ~~is not provided with~~ *~~coresetPoolIndex~~*~~, otherwise,~~~~the UE does not expect to receive more than one PDSCH in a same DL slot associated with a same~~ *~~coresetPoolIndex~~* ~~value~~. |
| Apple | We think the change from ZTE and NEC can be merged. The sentence “otherwise,…” is still needed on top of the version from NEC. |

# Outcome of email discussion

# List of contributions

1. R1-2106539 Draft CR on number of received PDSCHs for multi-TRP transmission ZTE