TSG-RAN WG1 #112b-e R1-23xxxxx

e-meeting, April 17 – 26, 2023

Source: Ericsson

Title: Draft CR 38.211 – NR\_MC\_enh-Core

Agenda Item: 9.18

Document for: Discussion and Decision

# Introduction

This thread will discuss the draft CR to 38.211 for NR\_MC\_enh-Core.

The draft CR is available in R1-2302741

First checkpoint: April 20, UTC 17.00

# Discussion – first round

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| Company | Comments |
| Xiaomi | On 6.4.1.1.1.2 of the draft CR:   |  | | --- | | For a CORESET configured by the *ControlResourceSet* IE:  […]  - if the higher-layer parameter *dmrs-UplinkTransformPrecoding* is configured, π/2-BPSK modulation is used for PUSCH, and the PUSCH transmission is not a msg3 transmission, and the transmission is not scheduled using DCI format 0\_0 in a common search space, is given by clause 5.2.3 with given by  where unless given by the DCI according to clause 7.3.1.1.2 in [4, TS38.212] for a transmission scheduled by DCI format 0\_1, or given by the DCI according to clause 7.3.1.1.3 in [4, TS38.212] for a transmission scheduled by DCI format 0\_2 if the antenna ports field in the DCI format 0\_2 is not 0 bit, or given by the DCI according to clause 7.3.1.1.4 in [4, TS38.212] for a transmission scheduled by DCI format 0\_3 if the antenna ports field in the DCI format 0\_3 is not 0 bit, or given by the higher-layer parameter *antennaPort* for a PUSCH transmission scheduled by a type-1 configured grant; and  - are given by the higher-layer parameters *pi2BPSK-ScramblingID0* and *pi2BPSK-ScramblingID1*, respectively, in the *DMRS-UplinkConfig* IE if provided and the PUSCH is scheduled by DCI format 0\_1, or by DCI format 0\_2 if the antenna ports field in the DCI format 0\_2 is not 0 bit, or by DCI format 0\_3 if the antenna ports field in the DCI format 0\_3 is not 0 bit, or by a PUSCH transmission with a configured grant;  - is given by the higher-layer parameter *pi2BPSK-ScramblingID0* in the *DMRS-UplinkConfig* IE if provided and the PUSCH is scheduled by DCI format 0\_0 with the CRC scrambled by C-RNTI, MCS-C-RNTI, or CS-RNTI, or by DCI format 0\_2 if the antenna ports field in the DCI format 0\_2 is 0 bit, or by DCI format 0\_3 if the antenna ports field in the DCI format 0\_3 is 0 bit; |   According to the CR for 38.212 [R1-2303803] and discussion paper of [R1-2212924], it seems that the *Antenna ports* field in the DCI format 0\_3 is designed referring to the  *Antenna ports* field in the DCI format 0\_1. In this case, the *Antenna ports* field in the DCI format 0\_3 may be impossible to occupy 0 bit. To align with the description of  [R1-2303803], the draft CR on 6.4.1.1.1.2 can be modified as follows:   |  | | --- | | For a CORESET configured by the *ControlResourceSet* IE:  […]  - if the higher-layer parameter *dmrs-UplinkTransformPrecoding* is configured, π/2-BPSK modulation is used for PUSCH, and the PUSCH transmission is not a msg3 transmission, and the transmission is not scheduled using DCI format 0\_0 in a common search space, is given by clause 5.2.3 with given by  where unless given by the DCI according to clause 7.3.1.1.2 in [4, TS38.212] for a transmission scheduled by DCI format 0\_1, or given by the DCI according to clause 7.3.1.1.3 in [4, TS38.212] for a transmission scheduled by DCI format 0\_2 if the antenna ports field in the DCI format 0\_2 is not 0 bit, or given by the DCI according to clause 7.3.1.1.4 in [4, TS38.212] for a transmission scheduled by DCI format 0\_3 ~~if the antenna ports field in the DCI format 0\_3 is not 0 bit~~, or given by the higher-layer parameter *antennaPort* for a PUSCH transmission scheduled by a type-1 configured grant; and  - are given by the higher-layer parameters *pi2BPSK-ScramblingID0* and *pi2BPSK-ScramblingID1*, respectively, in the *DMRS-UplinkConfig* IE if provided and the PUSCH is scheduled by DCI format 0\_1, or by DCI format 0\_2 if the antenna ports field in the DCI format 0\_2 is not 0 bit, or by DCI format 0\_3 ~~if the antenna ports field in the DCI format 0\_3 is not 0 bit~~, or by a PUSCH transmission with a configured grant;  - is given by the higher-layer parameter *pi2BPSK-ScramblingID0* in the *DMRS-UplinkConfig* IE if provided and the PUSCH is scheduled by DCI format 0\_0 with the CRC scrambled by C-RNTI, MCS-C-RNTI, or CS-RNTI, or by DCI format 0\_2 if the antenna ports field in the DCI format 0\_2 is 0 bit~~, or by DCI format 0\_3 if the antenna ports field in the DCI format 0\_3 is 0 bit~~; | |
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