**3GPP TSG RAN WG1 Meeting #102-e R1-200xxxx**

**e-Meeting, August 17th – 28th, 2020.**

Title: [Draft] Reply LS on remaining eMIMO issues

Response to: LS on detail MIMO MAC CE operations (R2-2005811)

Release: Rel-16

Work Item: NR\_eMIMO-Core

Source: RAN1

To: RAN2

Cc:

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

Attachments: -

**1. Overall Description:**

RAN1 would like to provide replies on the following questions from RAN2 in R2-2005811:

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| **Question 1:** Could RAN1 specify how the TCI state codepoints are mapped when the number of codepoints in the TCI field of DCI format 1\_2 is less than the maximum number of codepoints in the TCI field of DCI format 1\_1 taking into account that the MAC CE may signal TCI states corresponding to maximum amount of DCI codepoints.? |

**Answer to Q1**: RAN1 understands when the number of TCI states activated by MAC-CE is larger than the number of codepoints, say K, in DCI format 1\_2, the first K activated TCI states are ordinally mapped to each of DCI codepoints. RAN1 has no consensus on whether it is needed to specify such mapping or not in RAN1 specification.

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| **Question 2:** Is RAN2 understanding correct that the intended functionality of the Serving cell set based SRS spatial relation indication MAC CE is to only indicate the SRS spatial relations for SRS resource(s) which are applied for all configured serving cell set? (i.e. no need to activate/deactivate transmission of SRS resources(s) for all configured cells in the serving cell set) |

**Answer to Q2**. Yes, RAN1 has the same understanding with RAN2 that intention of the MAC-CE is to only indicate SRS spatial relations.

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| **Question 3:** Is RAN2 understanding correct that the Serving cell set based SRS spatial relation indication MAC CE can be used to indicate the SRS spatial relations in SUL configuration? |

**Answer to Q3**. RAN1 has not precluded the MAC-CE from being configured for SUL. However, RAN1 has no consensus on whether applying SRS spatial relations to SUL is valid or not.

**2. Actions:**

**To RAN2**

**ACTION:** RAN1 respectfully asks RAN2 to take the above information into account in their further work

**3. Date of Next Meetings:**

TSG-RAN WG1 Meeting #103-e October 26 – November 13, 2020 e-meeting

TSG-RAN WG1 Meeting #104 March 1 – 5, 2021 Athens, Greece