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

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

**Title:** [Draft] LS on multi-CC simultaneous TCI activation with multi-TRP/panel transmission

**Response to: -**

**Release:** Release 16

**Work Item:** NR\_eMIMO-Core

**Source:** RAN WG1

**To:** RAN WG2

**Contact Person:**

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**Attachments:** None

# Overall Description:

In RAN1#102-e meeting, RAN1 discussed on whether/how to support the feature of multi-CC simultaneous TCI activation for PDSCH with the two features specified for multi-TRP/panel transmission, i.e. single DCI based and multi-DCI based multi-TRP/panel transmission, respectively. In the case of multi-DCI, a sentence ‘Network should not configure serving cells that are configured with CORESETPoolID=1 in these lists.’ is found from *CellGroupConfig* IE in TS38.331 and made a following conclusion accordingly.

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| **Conclusion (RAN1#102-e)**  - By RRC configuration, each CC list cannot include a CC/BWP in which two CORESET pools are configured. |

In the case of single DCI based multi-TRP/panel transmission, companies think that clarification from RAN2 is needed on whether/how this can be operated together with the feature of multi-CC simultaneous TCI activation. Switching between single DCI based multi-TRP/panel and single TRP/panel is controlled by MAC-CE, not by RRC. From RRC configuration perspective, therefore, it seems possible to include a CC/BWP being operated with single DCI based multi-TRP/panel in the CC list, and it seems that the new MAC-CE introduced for supporting single DCI based multi-TRP/panel, i.e. Enhanced TCI States Activation/Deactivation for UE-specific PDSCH MAC CE, applies to one specific CC/BWP even in the case when the CC/BWP is included in the CC list by RRC configuration.

**Question:** Is the following understanding is correct?

* By current RAN2 specification, it is not precluded to enable single DCI based multi-TRP/panel operation in one or more CC(s)/BWP(s) included in *simultaneousTCI-UpdateList1* or *simultaneousTCI-UpdateList2* by using Enhanced TCI States Activation/Deactivation for UE-specific PDSCH MAC CE.

# Actions to RAN WG2

RAN1 respectfully ask RAN2 to answer the above question.

# Date of next TSG-RAN WG1 meetings:

TSG-RAN WG1 Meeting#103 26th OCT to 13th NOV 2020