**3GPP TSG RAN WG2#111-e R2-200xxxx**

**Online meeting, 17th - 28th August, 2020**

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

**Response to: -**

**Release:** Release 16

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

**Source:** RAN WG2

**To:** RAN WG1

**Contact Person:**

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**Attachments:** None

# Overall Description:

RAN2 has discussed the LS from RAN1 about whether/how to support the feature of multi-CC simultaneous TCI activation for PDSCH with the two features specified for multi-TRP/panel transmission.

Question from RAN1:

**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.

**Response:**

RAN2 made the following conclusion in RAN2 #109e agreements,

1. If the CC indicated in the MAC CE is configured as part of a CC-list, this MAC CE applies to all the CCs in the CC list; otherwise, the MAC CE applies to single CC.
2. Multiple TRP case is not considered for MAC CEs regarding multiple CCs/BWPs, i.e. TCI States Activation/Deactivation for UE-specific PDSCH MAC CE and TCI State Indication for UE-specific PDCCH MAC CE.

However, it was not discussed in detail if this applies to mTRP sPDCCH as well as mTRP mTRP. RAN2 acknowledges the conclusion from RAN1 that at least mTRP mPDCCH is not supported.

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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. |

RAN2 would like to clarify from RAN1 whether mTRP sPDCCH should or should not be supported.

**Question 1:** RAN2 would like to clarify from RAN1 whether mTRP sPDCCH should or should not be supported for the multiple cc list operation.

Further RAN2 discussed the multipleCORESET capability from Rel-15. In detail, whether the max 3 CORESETs include or in addition to CORESET ID 0 for the Rel-15 legacy capability

**Question 2:** RAN2 would like to clarify from RAN1 whether the max 3 CORESETs include or in addition to CORESET ID 0 for the Rel-15 legacy capability.

# Actions to RAN WG2

RAN2 respectfully ask RAN1 to answer the above questions.

# Date of next TSG-RAN WG2 meetings:

TSG-RAN WG2 Meeting#112 17th to 28th NOV 2020