**3GPP TSG-RAN WG2 Meeting #119bisR2-2211013**

**Electronic October 2022**

**Title:** **DRAFT** LS on further further questions on feMIMO RRC parameters

**Response to: -**

**Release:** Rel-17

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

**Source:** 3GPP TSG-RAN WG2

**To:** 3GPP TSG-RAN WG1

**Contact Person:**

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

**Attachments:** None

1. **Overall Description:**

**BWP and cell ID in unified TCI state for SRS**

RAN2 discussed the need for BWP and cell ID for unified TCI state for SRS.

In *SRS-config*, *SRS-Resource* is configured with the unified TCI states:

 srs-TCIState-r17 CHOICE {

 srs-UL-TCIState-r17 TCI-UL-State-Id-r17,

 srs-DLorJoint-TCIState-r17 TCI-StateId

 } OPTIONAL -- Need R

 ]]

RAN2 understand that there should be serving cell and BWP associating with the present UL TCI state or DL/Joint TCI state.

For the case that the UL TCI state is present, RAN2 understands there are two alternatives associating the BWP and serving cell with the UL TCI state:

1. Add the separate fields BWP ID and Cell ID in *srs-UL-TCIState-r17*
2. Add an indication in the field description of *srs-TCIState-r17* that the present UL-TCI-State is associated with the BWP and serving cell where the *SRS-Config* is configured.

For the case that the Joint TCI state is present, RAN2 understands there are also two alternatives associating the BWP and serving cell with the Joint TCI state:

1. Add the separate fields BWP ID and Cell ID in *srs-DlorJoint-TCIState-r17*
2. Add an indication in the field description of *srs-TCIState-r17* that the Joint TCI state is associated with the serving cell where the *SRS-Config* is configured and the current active DL BWP of this serving cell.

**Question 1**

According to above RAN2 understandings, RAN2 would like to ask RAN1 to explain what the association of BWP and cell ID for srs-TCIState is.

**codebookmode for codebookConfig**

RAN2 also discussed the need of codebookMode for *CodebookConfig-r17.*

**Question 2**

RAN2 would like to ask RAN1

1. Is there a need to add the parameter codebookMode which selects mode1 or mode2 in the IE CodebookConfig-r17?
2. If a) is needed, which types of codebook the parameter is needed:
	1. typeI-SinglePanel-Group1-r17
	2. typeI-SinglePanel-Group2-r17
	3. typeI-SinglePanel-ri-RestrictionSTRP-r17
	4. typeI-SinglePanel-ri-RestrictionSDM-r17
	5. typeII-PortSelection-r17
3. Additionally, if a) is needed, for each type of codebook that a parameter codebookMode is needed, please specify if a separate parameter is needed or if they share the configuration of codebookMode.

**2. Actions:**

**To RAN1 group:**

**ACTION:** RAN2 respectfully asks RAN1 to provide responses to above questions.

**3. Date of Next TSG-RAN WG2 Meetings:**

TSG-RAN WG2 Meeting #120 November 2022 Toulouse

TSG-RAN WG2 Meeting #121 February 2023 Athens