**3GPP TSG-RAN WG2 Meeting #119bisR2-220xxxx**

**Electronic October 2022**

**Title:** 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 for the type1 codebook in the IE CodebookConfig-r17?
2. If a) is needed, does each type1 group in the type1 codebook need its own codebookMode, or the two type1 groups in the type1 codebook share the same codebookMode?
3. If a) is needed, is it further correct understanding the parameter codebookMode is not needed for the Rel-17 type2 codebook?

**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