**3GPP TSG RAN WG1 Meeting #112**  **R1-2302249**

Athens, Greece, February 27th – March 3rd, 2023

**Title:** Reply LS to RAN2 on further questions on feMIMO RRC parameters

**Response to:** R2-2302295

**Release:** Release 17

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

**Source:** RAN WG1

**To:** RAN WG2

**Cc:** -

**Contact Person:**

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**1. Overall Description:**

RAN1 would like to thank RAN2 for the question in LS in R2-2302295 on feMIMO RRC parameters and would like to provide the following response.

**Question 1**

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| **For *pathlossReferenceRS-Id*, RAN2 considered two possibilities:**  1) *pathlossReferenceRS-Id* is an index referring to a list element in a list configured in the UL BWP and serving cell where the TCI state is applied, regardless if the field *cell* is configured in IE TCI-State or not, or respectively the field *servingCellId* in IE TCI-UL-State or not.  2) When the field *cell* is configured in IE TCI-State(or the field *servingCellId* in IE TCI-UL-State), *pathlossReferenceRS-Id* is an index referring to a list element in a list configured in an UL BWP of the serving cell indicated by *cell* (or *servingCellId* ). When *cell* (or *servingCellId* ) is absent, *pathlossReferenceRS-Id* is an index referring to a list element in a list configured in the UL BWP and serving cell where the TCI state is applied.  In 2), when *cell* (or *servingCellId)* ). is absent, it may be necessary to add a new field to indicate in which UL BWP the list is to be found.  **Question 1**  Is 1) or 2) or yet another alternative the correct understanding for *pathlossReferenceRS-Id*? If it is 2), please indicate how to know the UL BWP when the field *cell* (or *servingCellId* ) is present . |

**Answer to Question 1:**

RAN1 confirms that 1) is the correct understanding for *pathlossReferenceRS-Id*.

**Question 2**

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| **For *ul-powerControl*, RAN2 considered two possibilities:**  1) *ul-powerControl* is an index referring to a list element in a list configured in the serving cell where the TCI state is applied, regardless if the field *cell* (or *servingCellId* ) is configured or not.  2) When the field *cell* (or *servingCellId* ) is configured, *ul-powerControl* is an index referring to a list element in a list configured in the serving cell indicated by *cell* (or *servingCellId* ). When *cell* (or *servingCellId* ) is absent, *ul-powerControl* is an index referring to a list element in a list configured in the serving cell where the TCI state is applied.  **Question 2**  Is 1) or 2) or yet another alternative the correct understanding for *ul-powerControl*? |

**Answer to Question 2:**

RAN1 confirms that *ul-powerControl* is an index referring to a list element in a list configured in the serving cell where the TCI state is **configured**, regardless if the field *cell* (or *servingCellId*) is configured or not.

**2. Actions:**

**To RAN2 group.**

**ACTION:** RAN1 requests RAN2 to kindly take the above information into account.

**3. Date of Next TSG-RAN WG1 Meeting:**

TSG-RAN WG1 Meeting #112-bis-e April 17th – April 26th, 2023 E-meeting

TSG-RAN WG1 Meeting #113 May 22nd – May 26th, 2023 Incheon, KR