**3GPP TSG RAN WG2#118 R2-22xxxxx**

**e-Meeting, May, 2022**

**Title: Draft LS on TCI state signalling for SRS resource**

**Response to:**

**Release:** Release 17

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

**Source:** OPPO (To be RAN2)

**To:** RAN1

**Cc:**

**Contact Person:**

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**Attachments:**

1. **Overall Description:**

In current Rel-17 38.331 the parameter *followUnifiedTCIstateSRS-r17* could be configured to indicate whether aperiodic SRS for BM or SRS of any time-domain for codebook, non-codebook, and antenna switching should follow the "indicated" Rel-17 DL only or joint TCI state.

It is found that RAN1’s agreements in RAN1#108-e imply that new solution e.g. new MAC CE is needed to address the cases where parameter *followUnifiedTCIstateSRS-r17* is not configured and the cases not addressed yet i.e. periodic and semi-persistent SRS for BM. RAN2 is considering to configure DL or joint TCI state for those cases via RRC signalling but not sure whether it is sufficient. However, at the same time, RAN2 would like to emphasize that RAN2 has already completed the WI and hence, we should avoid introducing a new feature unless it is essential.

**2. Actions:**

**To RAN1:**

RAN2 respectfully asks RAN1 to answer following questions immediately:

**Question 1:**

Which cases are not addressed by current RRC specification and hence new solution (i.e. new MAC CE based signaling) is needed?

**Question 2:**

Whether configuration of DL or joint TCI state via RRC signalling is sufficient to address those potential cases? If not, could RAN1 recommend solution direction so that RAN2 can specify the detail during this meeting?

What information should be included in the MAC CE (please indicate every parameters that should be included in MAC CE assuming a new MAC CE is designed from scratch).

How can MAC CE indication be used? Is it one-shot configuration (as same as unified TCI state update MAC CE) or is it required to define activation/deactivation of concerned SRS resource with the associated TCI state?

Is for one serving cell or should we also apply simultaneousSpatial-UpdatedList that are configured for unified TCI state list if the list is configured?

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

3GPP RAN2#119e August 22~26 [Electronic] Meeting