**3GPP TSG-RAN WG2 Meeting #127 R2-240xxxx**

**Maastricht, Netherlands, 19th – 23rd August 2024**

**Title: [**DRAFT] LS on power control parameters for unified TCI state framework

**Response to:**

**Release:** Rel-17

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

**Source:** Ericsson (to be RAN2)

**To:** RAN1

**Cc:**

**Contact Person:**

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**Attachments:** None

**1. Overall Description:**

RAN2 have discussed the necessary power control parameters for when the unified TCI state framework is configured at the UE and have noticed that some parameters which are includes in *PUCCH-PowerControl* and *PUSCH-PowerControl* cannot be configured when network decides to configure Uplink-PowerControl.

This is because of the current restriction in TS 38.331 which forbid the network to configure *PUCCH-PowerControl* and *PUSCH-PowerControl* together with *Uplink-PowerControl*.

According to this, RAN2 would like to ask to RAN1 the following question2:

**Question1**: Are there any power control parameters which are not present within the *Uplink-PowerControl* that are necessary to be configured at the UE when the unified TCI state framework is configured (i.e., when the *Uplink-PowerControl* is included in the TCI state configuration)?

**Question 2:** If there are parameters from *PUCCH-PowerControl* and *PUSCH-PowerControl* which are needed when the unified TCI state framework is configured (i.e., when the *Uplink-PowerControl* is included in the TCI state configuration), should this parameter be part of the TCI state configuration or the existing parameters from *PUCCH-PowerControl* and *PUSCH-PowerControl* can be re-used?

**2. Actions:**

**To RAN1 group.**

**ACTION:** RAN2 kindly asks RAN1 to take the above information into account and provide feedback on which power control parameters are necessary to be configured at the UE when the unified TCI state framework is configured.

**3. Date of Next TSG-RAN2 Meetings:**

3GPP TSG RAN WG2#127bis 14 - 18 October 2024 Hefei, China

3GPP TSG RAN WG2#128 18 - 11 November 2024 Orlando, US