**3GPP TSG-RAN WG4 Meeting #111 R4-2407640**

**Fukuoka, Japan, 20-24 May, 2024**

**Title:** LS on further clarification for ue-PowerClassPerBandPerBC-r17 (R4 16-8)

**Response to:**

**Release:** Rel-17

**Work Item:** Power\_Limit\_CA\_DC

**Source:** TSG RAN WG4

**To:** TSG RAN WG2

**Cc:**

**Contact Person:**

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

**Attachments: None**

1. **Overall Description:**

In RAN4#106 meeting, RAN4 replied RAN2’s LS on the received clarification questions for the interaction between *ue-PowerClassPerBandPerBC-r17* (R4 16-8) and other existing different power class parameters. After extended discussion during subsequent meetings, RAN4 would like to have following further clarification and updated information with RAN2.

*ue-PowerClassPerBandPerBC-r17* is applicable to NR-CA configurations. *ue-PowerClassPerBandPerBC-r17* is not applicable to MR-DC band combinations.

The capability definition of *powerClass/powerClass-v1610* requires update to include *ue-PowerClassPerBandPerBC-r17,* i.e., if the power class indicated by *powerClass/powerClass-v1610* is higher than the power class that the UE supports on the individual bands of this band combination (*ue-PowerClassPerBandPerBC-r17* if indicated or *ue-PowerClass* in *BandNR otherwise*), the latter determines maximum TX power available in each band.

**2. Actions:**

**To RAN2:**

**ACTION:** RAN4 respectfully ask RAN2 to take above RAN4 clarification into consideration.

**3. Date of Next TSG WG RAN4 Meetings:**

TSG-RAN WG4 Meeting #112 19- 23 Aug, 2024 Maastricht, NL

TSG-RAN WG4 Meeting #112bis 14– 18 Oct, 2024 Hefei, China