**3GPP TSG-RAN WG4 Meeting # 108bis R4-2317742**

**Xiamen, China, October 09 – October 13, 2023**

**Title: LS to RAN2 about ATG UE**

**Response to:**

**Release: Rel-18**

**Work Item: -**

**Source: RAN WG4**

**To: RAN WG2**

**Cc: -**

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**Send any reply LS to: 3GPP Liaisons Coordinator, <mailto:3GPPLiaison@etsi.org>**

**Attachments: -**

# 1 Overall description

In the scope of the ATG WI, RAN4 specified the RF requirements and RRM requirements.

* P-max update for ATG UE

Compared with TN UE, RAN4 specified new max and min output power values for ATG UE, so the P-max value range should also be updated accordingly. RAN4 kindly asks RAN2 to update the P-max value range for ATG UE based on following RAN4 agreements that P-max range for ATG is suggested to be updated with -21dBm lower bound and 42dBm upper bound with total 6bits.

* New capability to support two types of ATG UE

RAN4 has defined two kinds of RF and RRM requirements for two types of UE considering the implementation freedom for ATG UE. one type of UE is using omni-directional antenna and the other is using antenna array antenna. RAN4 kindly asks RAN2 to define new capability to differentiate these two types of UE. The capability is per band basis and only applies for ATG operation bands which are all FR1 bands including both TDD and FDD bands.

# 2 Actions

**To RAN WG2**

**ACTIONS:**

RAN4 kindly asks RAN2 to update the P-max value range and define new capability to differentiate two types of UE.

# 3 Dates of next TSG RAN WG4 meetings

TSG-RAN4 Meeting #109 November 13 - 17, 2023 Chicago, USA

TSG-RAN4 Meeting #110 February 26 - March 17, 2023 Athens, GR