**3GPP TSG-RAN WG2 Meeting #127 R2-2407623**

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

**Title: [Draft] LS on common TA in a regenerative payload scenario**

**Response to: -**

**Release: Release 19**

**Work Item: NR\_NTN\_Ph3-Core**

**Source: CMCC [to be RAN2]**

**To: RAN1, RAN4**

**Cc:**

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

**Attachments:** -

**1. Overall Description:**

In RAN2#127 meeting, the setting of common TA and Kmac for regenerative payload with full gNB on board was discussed, and a question related to the value setting was raised.

Related to this, RAN2 kindly asks RAN1 and RAN4:

**Question :**  Whether in a regenerative payload scenario it would be a problem to stick to 0 as the minimum possible value for TA-Common or whether we should e.g. introduce negative values for ta-Common.

Additionally, RAN2 understands in any case legacy UEs would have to rely on existing signaling and then for legacy UEs, minimum value of Common TA should equal to 0.

**2. Actions:**

**To RAN1 and RAN4:**

RAN2 kindly requests RAN1 and RAN4 to provide feedback on above question.

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

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

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