**3GPP TSG RAN WG1 #108-e R1-** **2202911**

**e-Meeting, February 21 – March 3, 2022**

**Title: [DRAFT]** Reply LS on Positioning Reference Units (PRUs) for enhancing positioning performance

**Response to:** R1-2200857 (R2-2111488) Response LS on Positioning Reference Units (PRUs) for enhancing positioning performance

**Release:** Rel-17

**Work Item:** NR\_pos\_enh-Core

**Source:** Moderator (CATT) [RAN1]

**To:** RAN2

**Cc:** RAN3, SA2

**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:**

RAN1 thanks RAN2 LS (R1-2200857/R2-2111488), which asks RAN1 the following questions:

* *whether the LMF determined "correction information" obtained from PRU measurements need to be provided to target UEs for UE-based mode of operation, and if so, kindly asks RAN1 to provide further details on the specific "correction information" which need to be provided to target UEs.*
* *to provide further details on the "PRU antenna orientation information" which should be provided to an LMF.*

RAN1 discussed the above issues in RAN1#108. For the first question, RAN1 would provide the following response:

* *RAN1 has discussed the issue of whether to provide “correction information” obtained from PRU measurements from LMF to target UEs for UE-based positioning, but RAN1 cannot conclude whether to introduce “correction information” for UE-based positioning in Rel-17.*
* *RAN1 has decided no more discussion on “correction information” obtained from PRU measurements for UE-based positioning in Rel-17.*

For the second question, RAN1 would provide the following response:

* *In Rel-17, there is no need to support PRU to provide the antenna orientation information to LMF, and thus no need to specify the PRU antenna orientation information.*

**2. Actions:**

**To RAN2**

**ACTION:** *RAN1 respectfully requests RAN2 to take above feedback on RAN2’s questions into account in their future work.*

**3. Date of Next TSG-RAN WG1 Meetings:**

TSG-RAN WG1 Meeting #109-e 16 May – 27 May 2022 E-Meeting

TSG-RAN WG1 Meeting #110 22 Aug – 26 Aug 2022 Toulouse, France