**3GPP TSG-RAN WG2 Meeting #121bis-eR2-230xxxx**

**Online, April 17 – 26, 2023**

**Title: [draft] Response LS on PRU Procedures**

**Response to:** R2-2302449 (S2-2303861)

**Release:** Rel-18

**Work Item:** NR\_pos\_enh2, 5G\_eLCS\_Ph3

**Source:** Qualcomm Incorporated (to be RAN2)

**To:** SA2

**Cc:** RAN1, RAN3

**Contact Person:**

**Name:** Sven Fischer

**E-mail Address:**   [**sfischer@qti.qualcomm.com**](mailto:sfischer@qti.qualcomm.com)

**1. Overall Description:**

RAN2 thanks SA2 for their LS on PRU Procedures and would like to provide the following answers.

SA2 request:

|  |
| --- |
| Regarding the procedure for location of a target UE using PRUs (clause 6.x.4 of the attached CR), SA2 noticed that RAN had agreements to support some positioning methods that require simultaneous measurements of the target UE and PRU. In the SA2 agreed procedures, it is assumed that the LMF can make the decision and realize such simultaneous measurements by using a common scheduled location time.  SA2 would like to seek RAN1 and RAN2’s feedback on such assumption and whether additional enhancement would be needed to support the simultaneous measurements for the target UE and PRU. SA2 would update the specification according to the RAN1 and RAN2 feedbacks if necessary. |

RAN2 response:

Dependent on the RAN1 requirements for simultaneous location measurements of the target UE and PRU, RAN2 will add signalling support for such a feature in LPP (and potentially in SLPP, if needed). Whether the LPP "scheduled location time" can be reused and/or enhanced for this purpose will be decided once the RAN1 requirements for this feature are agreed/available. Since this feature is positioning method specific and affects LPP (and potentially NRPPa and SLPP, if needed), RAN2 believes that the solution will have no impacts on the PRU procedures agreed by SA2 in S2-2303860.

SA2 request:

|  |
| --- |
| Additionally, SA2 also would like to know what location information can be provided by PRU, and whether RAN1 and RAN2 see benefit to allow PRU to provide its location information together with the location measurements reports. |

RAN2 response:

A PRU should be able to report

(a) the location coordinates of the PRU only,

(b) the location measurements performed by the PRU only, or

(c) the location coordinates of the PRU together with any performed location measurements,

where location measurements above include the currently defined location measurements in LPP and potential new location measurements defined in Rel-18 and location coordinates provide the known location of the PRU, obtained independently from the location measurements.

Since the above reporting affects LPP (and potentially SLPP, if needed), RAN2 believes that the above reporting has no impacts on the PRU procedures agreed by SA2 in S2-2303860.

**2. Actions:**

**To SA2:**

**ACTION:** RAN2 kindly asks SA2 to take the above answers into account.

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

TSG-RAN2 Meeting #122 22-26 May 2023 Incheon, KR

TSG-RAN2 Meeting #123 21-25 August 2023 Toulouse, FR