**3GPP TSG RAN WG1 #112 R1-** **230xxxx**

**Athens, Feb. 27th – March 3rd, 2023**

**Agenda item:** 9.5

**Source:** Moderator (Qualcomm Incorporated)

**Title:** Discussion of SA2 LS on PRU Procedures

**Document for:** Discussion and Decision

# Introduction

SA2 sent an LS to RAN1 and RAN2 on PRU procedures [1], informing RAN1 and RAN2 about introducing enhanced procedures for PRU support in SA2 specifications and requesting feedback:

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| --- |
| SA2 would like to inform RAN1 and RAN2 that the SA2 has agreed the attached CR to TS 23.273 on procedure enhancements for PRU support.  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.  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. |

This document collects company views and discusses potential RAN1 feedback to SA2.

# RAN1 Feedback

The procedure for using a PRU requires simultaneous measurements. To this end, SA2 assumes that the LMF can use a common scheduled location time based in RAN specifications for both the target UE and the PRU. The first question from SA is whether such an assumption regarding existing support in specification for simultaneous measurements is correct, or whether any additional enhancements are needed to support these operations.

**Question 1: Do specifications support simultaneous measurements of the target UE and PRU as assumed by SA2? If not, what enhancements would be needed to support simultaneous measurements?**

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| --- | --- | --- |
| Company | Yes/No | Needed enhancements if not already supported |
|  |  |  |

The second set of questions from SA2 is regarding which location information can be provided by the PRU and whether RAN1 sees any benefit from allowing the PRU to provide its location information together with the location measurements.

**Question 2: What location information can be provided by the PRU?**

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| --- | --- |
| Company | Comments |
|  |  |

**Question 3: Is there any benefit from allowing the PRU to provide its location information together with the location measurements report?**

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| --- | --- | --- |
| Company | Yes/No | Comments |
|  |  |  |

Lastly if there is any additional feedback to include in the reply LS, please indicate so in the table below.

**Question 4: Please include any additional feedback to capture in the reply LS**

|  |  |
| --- | --- |
| Company | Comments |
|  |  |

References

1. R1-2301915 (S2-2303861), “LS on PRU procedures,” SA2 #155, Athens 2023.