**SA WG2 Meeting #S2-156e S2-2305287**

**17 - 21 Apr, 2023, Electronic meeting**

Title: [draft] Reply LS to LS to SA2 on Sidelink positioning procedure

Response to: LS to SA2 on Sidelink positioning procedure (S2-2303952/R2-2302285)

Release: Release 18

Work Item: Ranging\_SL

Source: SA2

To: RAN2

Cc: SA3

**Contact Person:** **Sherry (Yang) Shen**

 **shenyang6@xiaomi.com**

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

Attachments: S2-230xxxx (pCR for clause 6.7 of TS 23.586), S2-230xxxx (clause 6.x&6.y of TS 23.273)

**1. Overall Description:**

SA2 thanks RAN2 for informing agreements of the overall signalling procedure for PC5-only positioning and the further questions.

SA2 has discussed the questions asked by RAN2 with the following answers:

***Question 1****: Does SA2 have any comments on RAN2 agreed PC5-only positioning procedure?*

**SA2 Answer:** SA2 confirms that the 7 steps agreed by RAN2 can be used as the baseline for Ranging/Sidelink positioning procedure.

***Question 2****: Regarding the step 1 trigger event, RAN2 would like to understand whether SA2 will specify the triggering event for an SLPP session?*

**SA2 Answer:** As defined in procedures for UE-only Operation and Network-based Operation in the attachments, the service request received from Ranging/SL Positioning application layer (triggered by a SL Positioning Client UE over PC5 or by any application on the UE) and the service request received from LMF triggers the UE discovery and then the SLPP session.

Regarding to UE discovery and selection, SA2 has decided to include an RSPP (i.e. SLPP) metadata field during discovery, the contents of which are to be specified by RAN2. SA2 expects RAN2 to include at least the supported UE roles (e.g. SL Reference UE, Located UE, SL Positioning Server UE) in the contents of this field. Note that in SA2 we distinguish between SL Reference UE and Located UE roles, and hence sincerely ask RAN2 to specify how these roles (or an equivalent thereof) can be conveyed using the RSPP metadata field.

In addition, SA2 has the following questions regarding UE discovery and selection:

**Question 1:** How does the LMF or Target UE select the Located UE(s) for the Sidelink Positioning of the Target UE (e.g. based on the supported Sidelink Positioning methods, required QoS/accuracy, etc.)? Is this done at the discovery phase or after capability exchange?

**Question 2:** What are the criteria from RAN2 perspective for the selection of a Located UE and SL Positioning Server UE?

**2. Actions:**

**To RAN2**

**ACTION:** Take SA2 answers into consideration and give feedback to SA2 on the SA2 further questions.

**3. Date of Next SA2 Meetings:**

SA2#157 22th - 26th May 2023 Berlin, DE

SA2#158 21st - 25th Aug 2023 Goteborg , SE