**3GPP TSG-RAN WG2 Meeting #121 Draft R2-2302260**

**Athens, Greece, Feb 27 – Mar 03, 2023**

**Title: Draft** LS to SA2 on Sidelink positioning procedure

**Response to:**

**Release:** Rel-18

**Work Items:** NR\_pos\_enh2

**Source:** Intel (To be RAN2)

**To:** SA2

**CC: SA3**

**Contact Person:**

#### Name: Yi Guo

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**Attachment:**

**1. Overall Description:**

RAN2 discussed the overall signaling procedure for PC5-only positioning (including at least in coverage (IC) and out of coverage (OOC); FFS if there are differences for partial coverage (PC)), and made following agreements:

Agreement:

The sidelink positioning procedure comprises the following series of steps as a baseline, between the LMF/positioning server UE/NG-RAN/candidate Anchor UE(s) and Target UE(s):

1. Triggering event
2. Sidelink positioning capability exchange

3. Sidelink positioning assistance data transfer

4. SL Positioning Request Location Information

5. Measurement of SL-PRS

6. Location calculation

7. SL Positioning Provide Location Information

Some steps may have dependencies on SA2 and can be revisited in this light. The order is subject to further discussion. FFS if discovery and selection of anchor UEs and/or server UE are part of the positioning layer in RAN2 scope.

Note: RAN2 will continue the discussion on discovery and selection topics and determination of positioning method. RAN2 assumption is at least part of the selection of anchor and server UEs will need to be done in RAN2 scope.

During RAN2 discussion, following questions were raised:

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

**2. Actions:**

**To SA2**

**ACTION:**

* RAN2 respectfully asks SA2 to take the above into account in their future work and provide feedback to RAN2.

**3. Date of Next RAN WG2 Meetings:**

RAN2 #121bis 17-26 April 2023 Electronic Meeting

RAN2 #122 22-26 May 2023 Incheon