**3GPP TSG-RAN WG2 Meeting #121 R2-2300xxx**

**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:**

**Contact Person:**

#### Name: Yi Guo

E-mail Address: yi.guo@Intel.com

**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.

During RAN2 discussion, following questions were raised:

**Question 1**:Does SA2 have any concern on RAN2 agreed sidelink positioning procedure?

**Question 2**: Whether a SLPP session is invoked by LCS or LPP layer. If it is LCS, how a single SLPP session is invoked by the LCS service request for sidelink positioning?

**Question 3**: Is anchor UE selection incorporated as part of the upper layer discovery procedure or SLPP capability exchange procedure?

**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

**4. Contact information**

Respondents to the email discussion are kindly asked to fill in the following table.

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| --- | --- |
| Company | Contact: Name (E-mail) |
| Huawei, HiSiclion | Yinghao Guo |
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**5. Discussion**

Rapporteur would like to check companies’ view .

**Q1: Do companies agree the content above?**

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| **Company** | **Yes/No** | **Remark** |
| Huawei, HiSiclion |  | LCS already means location service. So, “LCS service request” should be “LCS request”  Not sure why SLPP session should be invoked by LPP layer.  From this perspective, we prefer to leave the question more open, since it is up to SA2 to discuss. We can reword the question as: “We would like to understand how the SLPP session is triggered?”  For the 3rd question, we can ask, whether and how the anchor UE selection is related to the discovery procedure and UE capability exchange. |
| OPPO |  | The SA2 could only decide whether or not the discovery procedure could be used as part of the anchor UE selection procedure. Regarding the capability transfer, it is in AS level, so we think that SA2 cannot give any suggestion on if capability transfer is also part of the UE selection procedure.  We suggest the 3rd question should be modified like: whether and how the anchor UE selection is related to the discovery procedure? |

Rapporteur would like to check companies’ view .

**Q2: Do companies agree the questions above? Or any additional questions?**

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| **Company** | **Yes/No** | **Remark** |
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