**3GPP TSG-RAN2#119bise Meeting *R2-221XXXX***

**Electronic, 10th– 19th Oct, 2022**

**Title: Reply LS on Terminology Alignment for Ranging/Sidelink Positioning**

**Response to: S2-2207129/R2-2209351**

**Release:** **Rel-18**

**Work Items: NR\_pos\_enh-Core**

**Source: RAN WG2**

**To: SA2**

**CC: RAN WG1, RAN WG3**

**Contact Person:**

#### Name: Xiaowei Jiang

E-mail Address: jiangxiaowei@xiaomi.com

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

**Attachment: None**

**1. Overall Description:**

RAN2 would like to thank SA2 for the LS on terminology alignment for ranging/sidelink positioning.

RAN2 agreed to adopt the following terminologies defined by RAN1:

|  |
| --- |
| **Ranging:** determination of the distance and/or the direction between a UE and another entity, e.g., anchor UE.**Anchor UE:** UE supporting positioning of target UE, e.g., by transmitting and/or receiving reference signals for positioning, providing positioning-related information, etc., over the SL interface. FFS: clarification of the knowledge of the location of the anchor UE**Target UE:** UE to be positioned.**Sidelink positioning:** Positioning UE using reference signals transmitted over SL, i.e., PC5 interface, to obtain absolute position, relative position, or ranging information. |

RAN2 does not see conflicts on these terminologies with SA2 definition (SL reference UE refers to anchor UE).

With regard to the definition of located UE, SL positioning client UE, RAN2 decided not to introduce them for now. If there is a need to introduce them later (e.g. in the normative work), RAN2 can introduce them then.

With regard to the definition of relative positioning, RAN2 decided to follow RAN1 definition, if introduced by RAN1.

Regarding assistant UE, RAN2 has not decided to support the role for now, it is FFS if there is spec impact in RAN2 from the assistant UE. Therefore, RAN2 has not decided whether to adopt this definition.

With respect to SL Positioning Server UE, RAN2 has not concluded on the server UE functionalities but has agreed to follow SA2 decision on the definition of the server UE, and discussion continues..

For the terminology of Network assisted Operation, the use of ‘assisted’ is not aligned with TS38.305, where it says:

|  |
| --- |
| TS38.305: As used in this document, the suffixes "-based" and "-assisted" refer respectively to the node that is responsible for making the positioning calculation (and which may also provide measurements) and a node that provides measurements (but which does not make the positioning calculation). Thus, an operation in which measurements are provided by the UE to the LMF to be used in the computation of a position estimate is described as "UE-assisted" (and could also be called "LMF-based"), while one in which the UE computes its own position is described as "UE-based". |

RAN2 thinks it is up to SA2 to decide whether to align the use of the suffix ‘assisted’ with TS38.305 or not.

**2. Actions:**

**To SA2**

**ACTION:** RAN2 kindly ask SA2 to take above information into consideration.

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

RAN2 #120 14-18 November 2022 Toulouse

RAN2 #121 27 Feb-3 Mar 2023 Athens