3GPP TSG-RAN2 Meeting #126 R2-24xxxxxx

Fukuoka, Japan, 20 – 24 May 2024

**Title:** DRAFT Reply LS on SLPP parameters provision

**Response to:** R2-2404111(was R1-2403622)

**Release:** Rel-18

**Work Item:** NR\_pos\_enh2-Core

**Source:** vivo [to be TSG RAN2]

**To:** TSG RAN1

**Cc:**

**Contact Person:**

**Name:**

**E-mail Address:**

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

**Attachments**:

**1. Overall Description:**

RAN2 thanks RAN1 for the LS on the feedback of SLPP design in terms of Tx/Rx ARP information.

Regarding the problem raised by RAN1:

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| RAN1 would like to point out that from RAN1 perspective, for location calculations for UE-based SL positioning, it should be possible that the Rx UE can be provided the information about association between Tx ARP-ID and already transmitted SL PRS. It is unclear whether current signaling design from RAN2 can support this scenario. |

RAN2 would like to add the association information of Tx ARP ID and transmitted SL-PRS resource(s) as assistance data carried in *CommonSL-PRS-MethodsIEsProvideAssistanceData*. In this sense, the scenarios, that the Rx UE is provided the information about association between Tx ARP-ID and already transmitted SL PRS for location calculations in UE-based SL positioning can be supported.

Regarding the requirement to support Rx UE reports multiple instances of ARP ID association with transmitted SL-PRS resource(s) from RAN1:

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| RAN1 would like to support the scenario that the SL-PRS Rx UE reports measurements for multiple Rx ARP-IDs for the same resource or different resource(s) from the same Tx UE in a single measurement report. |

RAN2 has come to the following agreement and would adjust the signalling structure accordingly.

# Agreement

Introduce a list of 4 measurement elements, to support multiple Rx ARPs reporting in single measurement report.

**2. Actions:**

**To RAN1**

**ACTION:** RAN2 kindly asks RAN1 to take the above information into consideration.

**3. Date of Next TSG-RAN2 Meetings:**

TSG RAN2 Meeting #127 19 - 23 August 2024 Maastricht, NL

TSG RAN2 Meeting #127bis 14 - 18 October 2024 China