**3GPP TSG-RAN WG4 Meeting #111 *R4-2410352***

**Fukuoka City, Fukuoka, Japan, 20th – 24th May, 2024**

**Title: [DRAFT]** LS on synchronization source change at the transmitting anchor UE in SL positioning

**Release:** Rel-18

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

**Source:** 3GPP TSG-RAN WG4

**To:** 3GPP TSG-RAN WG1, 3GPP TSG-RAN WG2

**Contact Person:**

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**Attachments:** None

1. **Overall Description:**

During the discussion on RRM core requirements for SL positioning, RAN4 reached the following agreement.

* Agreement
  + It is a RAN4 understanding that UE performing measurements may not be aware on the synchronization source change at the Tx UE.
  + For synchronization reference source change occurring at Tx side, measurement accuracy requirements do not apply and no specific UE behaviour is defined.
    - Note: the agreement can be revisited if a RAN1/2 solution is introduced to inform the UE performing measurements on the synchronization source change at the Tx UE.

RAN4 would like to check whether RAN1 and RAN2 have introduced or are working on any solutions to inform a UE performing an SL positioning measurement (e.g., SL RSTD, SL Rx-Tx, and SL RTOA) about synchronization reference source change at a UE, which is transmitting SL-PRS for the measurement.

**2. Actions:**

**To RAN1, RAN2:**

**ACTION:** RAN4 kindly requests RAN1 and RAN2 to clarify whether they have introduced or are working on any solutions to inform an SL UE performing an SL positioning measurement (e.g., SL RSTD, SL Rx-Tx, and SL RTOA) about synchronization reference source change at a UE, which is transmitting SL-PRS for the measurement

**3. Date of Next TSG-RAN WG4 Meetings:**

TSG-RAN WG4 Meeting #112 Maastricht, NL August 19 – August 23, 2024

TSG-RAN WG4 Meeting #112-bis China, CN October 14 – October 18, 2024