**3GPP TSG-RAN WG4 Meeting #102-eR4-220xxxx**

**Electronic Meeting, 21 February – 3 March, 2022**

**Title: reply LS on propagation delay compensation**

**Response to:** R1-2112834, R1-2102245

**Release:** Release 17

**Work Item:** NR\_IIOT\_URLLC\_enh

**Source:** RAN4

**To:** RAN1, RAN2

**Cc:**

**Contact Person:**

#### Name: Li Zhang

E-mail Address: zhangli164@huawei.com

**Attachments: -**

**1. Overall Description:**

RAN4 thanks RAN1 for the information in LS R1-2112834 related to PDC.

RAN4 discussed the reporting range of Rx-Tx time difference measurement for RTT-based PDC, and agreed that the existing reporting ranges defined in Rel-16 (clause 10.1.25.3.1 of 38.133 for UE Rx-Tx time difference and clause 13.2.1 of 38.133 for gNB Rx-Tx time difference) can be re-used for RTT-based PDC.

In addition, in an earlier LS R4-2105850 RAN4 indicated that RAN4 will further discuss the reference point definition in the future to clarify the term. Based on discussions in RAN4#102-e, RAN4 reached consensus to update the reference point definition in clause 7.1.2 of 38.133 as follows:

|  |
| --- |
| **“The downlink timing is defined as the time when the first path (in time) of the corresponding downlink frame used by the UE to determine downlink timing is received from the reference cell at the UE antenna”** |

Editor’s note (to be removed in final version): the highlighted texts are related to reference point definition for Te requirements. They can be further updated or removed based on the outcome of 2nd round discussion.

**2. Actions:**

**To RAN1 and RAN2:**

RAN4 respectfully asks RAN1 and RAN2 to take above information into account.

**3. Date of Next TSG-RAN4 Meetings:**

RAN WG4 Meeting #103-e May 16 – May 27, 2022 Electronic Meeting

RAN WG4 Meeting #104 August 22 – August 26, 2022 Toulouse, France