3GPP TSG RAN WG4 Meeting #104-e R4-2214493

Electronic Meeting, Aug. 15 – Aug. 26, 2022

**Title:** Reply LS on the UE/TRP TEG framework

**Response to:**

**Release:** Rel-17

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

**Source:** RAN WG4

**To:** RAN WG1, RAN WG2

**Cc:**

**Contact person:**

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**Attachments: None**

# 1 Overall description

RAN4 thanks RAN1 for the LS R4-2211503(R1-2205382) on UE/TRP TEG framework. In RAN4#104e meeting, RAN4 discussed the LS and provided the following feedbacks:

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| **Issue #2: Applicability of an Rx/RxTx TEG**RAN4 feedback: RAN1’s understanding on applicability of reported TEG (issue #2) is correct. **Issue #5:** **Maximum number of changes of reports (or changes) of the TEG-SRS association** RAN4 feedback: RAN4 has the same understanding on the maximum number of changes of reports (or changes) of the TEG-SRS association (issue #5). **Issue #6: Questions on UE Rx/RxTx TEG margins**RAN4 feedback: * UE Tx/Rx/RxTx TEG margins are provided as LPP signalling parameters out of UE capability signaling.
* A single timing error margin value is provided per Rx TEG/RxTx TEG type per measurement instance in a single LPP message, if it has multiple measurement instances.
* The timing error margin values for an Rx TEG/RxTx TEG type in different LPP messages can be different.

**Issue #7: Difference of timing error margin values for Rx TEG and RxTx TEG**RAN4 feedback: RAN4 confirm that RAN1’s understanding is correct.  |

In addition, RAN4 reached the following agreements on TEG:

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| **Applicability of timing error margin of Rx TEG:** * For Rx TEG, the applicable timing error margin values that can be selected by the UE are the pre-defined values that are not larger than the sum of the Rel-16 group delay margin (dependent on PRS/SRS BW) and frequency drift margin.

**Candidate timing error margin for RxTx TEG:** * (16 values): 1/2 Tc, 1 Tc, 2 Tc, 4 Tc, 8 Tc, 12 Tc, 16 Tc, 20 Tc, 24 Tc, 32 Tc, 40 Tc, 48 Tc, 64 Tc, 80 Tc, 96 Tc, 128 Tc.
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RAN4 kindly asks RAN1/2 to take the above information into account in the following work on NR positioning enhancements.

# 2 Actions

**To RAN WG1 and RAN WG2:**

**ACTION:** RAN4 kindly asks RAN1/2 to take the above information into account in the following work on NR positioning enhancements.

# 3 Dates of next TSG RAN WG4 meetings

TSG RAN WG4 Meeting #104bis-e October 10 – October 18, 2022 Electronic Meeting

TSG RAN WG4 Meeting #105 November 14 – November 18, 2022 Europe