3GPP TSG RAN WG4 Meeting #102-e R4-22XXXX

Electronic Meeting, February 21 – March 3, 2022

**Title:** 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 is working on the UE Rx/Tx and/or gNB Rx/Tx timing delay mitigation in R17 ePOS WI and discussed TEG framework including the timing error margin, applicability and RRM requirements impact etc., and the following agreements are made:

|  |
| --- |
| * The framework of UE/TRP Rx TEG:   + Define multiple candidate timing error margin values {TE1, TE2, …, TEN} in the spec.     - The number of candidate values (i.e. N) and the exact values of {TE1, TE2, …, TEN} will be decided in Perf part.   + UE/TRP selects one value M from {TE1, TE2, …, TEN} based on its implementation and indicate to LMF.   + For UE that supports multiple Rx TEGs (TEG#1, TEG#2, …), the associated timing error margin value of each Rx TEG is M, which means the timing error difference between the measurements within the same Rx TEG is within the margin M.   + The applicability of reported UE Rx TEG is limited to the measurements contained within the measurement report in which the Rx TEG information is provided, and only to measurements that are tagged with the corresponding TEG ID.   + The RRM accuracy requirements corresponding to the candidate timing error margin values {TE1, TE2, …, TEN} will be defined in Perf part. * The framework of UE/TRP Rx TEG can be also applied for UE/TRP RxTx TEG   + Note: if additional issues are identified based on RAN1/2 progress, then this agreement can be revised. |

RAN4 kindly asks RAN1/2 to take the above information into account in the following work on NR positioning enhancements, and design the necessary signalling support for the TEG framework. RAN4 kindly asks RAN1/2 to provide feedback if any issues are identified.

# 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, and design the necessary signalling support for the TEG framework. RAN4 kindly asks RAN1/2 to provide feedback if any issues are identified.

# 3 Dates of next TSG RAN WG4 meetings

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

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