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 frame work including the timing error margin, applicability and RRM requirements impact etc., and the following agreements are made:

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| * The framework for UE/TRP Rx TEG is as below:
	+ RAN4 will 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 will selects one value M from {TE1, TE2, …, TEN} based on its implementation and indicate to LMF.
	+ The multiple Rx TEGs (TEG#1, TEG#2, …) of UE/TRP are associated with the same value 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.
	+ The RRM accuracy requirements corresponding to the candidate timing error margin values {TE1, TE2, …, TEN} will be defined in Perf part.
* The framework can be also applied for UE/TRP Tx TEG and UE/TRP RxTx TEG
	+ FFS whether the selected value M is the same or not comparing to UE/TRP Rx TEG.
	+ FFS the applicability of reported Tx TEG and RxTx TEG.
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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.

# 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.

# 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