3GPP TSG-RAN WG3 #112-e R3-21xxxx

17 - 27 May 2021

Online

**Title: [DRAFT]** LS on how to support the (de)activation and failure handling of NR QMC

**Response to:**

**Release:** Rel-17

**Work Item:** NR\_QoE

**Source:** ZTE[TSG RAN WG3]

**To:** SA5

**Cc:** SA2

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator, mailto:3GPPLiaison@etsi.org**

**Attachments:** -

**1. Overall Description:**

RAN3 is discussing how to support the activation, deactivation and failure handling of NR QMC and considering whether to reuse Trace Function as in LTE QMC or to introduce a separate QMC Function.

RAN3 noticed some principles of Trace in TS32.422 below:

“There can only be one Trace Recording Session Reference per Trace Reference at one given time for a UE trace session. So there shall be only one TR/TRSR to be propagated during NG and Xn handover.

If the Trace Reference is the same as an existing Trace Session for the same subscriber or equipment, and the Trace Recording Session Reference is the same as the existing Trace Recording Session in the existing Trace Session having the same Trace Reference, the NG-RAN node shall not start a new Trace Recording Session and shall continue with the existing trace session and ignore the second request.

If the Trace Reference is the same as an existing Trace Session for the same subscriber or equipment, and the Trace Recording Session Reference is not the same as the existing Trace Recording Session in the existing Trace Session having the same Trace Reference, the NG-RAN node shall continue with the existing trace session and ignore the second request.”

Based on the specification above, if the Trace Function is reused for QMC activation, the following questions are raised:

Q1: Whether and how the Trace function can handle the situation that QMC is triggered after legacy trace for one UE, while the legacy trace and/or MDT still needs to be kept? In this case, will the TR/TRSR for the QMC session be different from the TR/TRSR used for legacy trace and/or MDT session? If yes, will the TR/TRSR for the QMC session and the TR/TRSR used for legacy trace and/or MDT session can exist simultaneously for one UE?

Q2: In case the Trace function is reused, how to enable the activation of QMC configuration independently from a Trace/MDT configuration?

Q3: How to ensure that a Trace deactivation message does not necessarily deactivate the QMC configuration previously activated with the Trace message bearing the same NG-RAN Trace ID?

Q4: How to decouple the Trace-related from QMC-related failure in case the Trace failure message is reused?

Q5: Whether and how current the Trace function can be enhanced to support multiple QMC activation/deactivation towards one UE at same or different time? Whether the triggered QMC session will use different TR/TRSR and whether multiple QMC sessions can exist simultaneously for one UE?

Q6: Whether QoE Reference as defined in TS28.405 is configured per service type or per slice for NR QoE?

Q7: Whether the Measurement Collection Entity IP Address is per service type or per QoE Reference?

**2. Actions:**

**To SA5 group.**

**ACTION:** RAN3 respectfully asks SA5 to provide feedback on the questions listed above.

**3. Date of Next TSG-RAN WG3 Meetings:**

TSG-RAN3 Meeting #113-e 17th – 28th August 2021

TSG-RAN3 Meeting #114-e 1st – 12th Nov 2021