3GPP TSG SA WG4 Meeting #125 TDoc S4-231490

Goteborg Sweden, Aug 21-25, 2023

**Title: Reply LS on area scope for QoE measurements**

**Response to: R2-2306569 | S4-231139**

**Release: Rel-18**

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

**Source:** **3GPP SA4**

**To:** **3GPP RAN2**

**Cc: 3GPP SA5, 3GPP RAN3**

**Contact person: Qi Pan**

 **panqi8@huawei.com**

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

**Attachments:** None

# 1 Overall description

SA4 thanks RAN2 for the liaison on area scope for QoE measurements and would like to provide the feedback on the raised questions below.

Q1) RAN2 would like to ask SA4 and SA5 if the restriction specified in TS 26.247 and TS 26.114 means that LocationFilter cannot be configured together with Area Scope of QMC in NGAP signalling. If so, can this restriction be removed? as RAN2 would like to clarify that even when Area Scope of QMC is not used for area scope checking, it is still useful for RAN to help the gNB select proper UEs for QoE measurements configuration.

**Answer**: In TS 26.247 and TS 26.114, the limitation not to configure the LocationFilter together with the Area Scope of QMC in NGAP signalling was introduced in order to avoid the duplicated area scope handling in both the UE application layer and the network side. It is not recommended to remove this restriction. However, SA4 does not foresee any issues in case Area Scope of QMC is provided over NGAP signalling for other RAN related usage while the area scope filtering is handled by the UE using LocationFilter.

Q2) RAN2 would also like to ask SA4/SA5/RAN3 whether there is a problem if for UEs in RRC CONNECTED the network performs area scope checking (with Area Scope of QMC) and UE application also performs area scope checking (with LocationFilter) at the same time. It should be noted that area scope management for UEs in RRC CONNECTED in Rel-17 relies on the gNB releasing the QoE configuration when the UE moves out of the applicable area scope.

**Answer**: As mentioned in the answer to Q1, from SA4 perspectives, the consecutive filtering in both the UE and the NG-RAN sides should be avoid. SA4 would also like to remind that the area scope of a QoE configuration shall only be evaluated at the start of a QoE measurement and reporting session (“QoE session”), i.e. if the UE moves out the coverage, the ongoing QoE Sessions should not be affected.

Q3) RAN2 would like to ask SA4/SA5 if it is feasible to include PLMN/TA information in LocationFilter?

**Answer**: The UE application layer can obtain the PLMN/TA/Cell information via the existing AT command, i.e. +C5GREG. From SA4 perspective, there is no issue with extending LocationFilter to include the PLMN/TA information, but it has to be confirmed by SA5 since the information conveyed in the LocationFilter in the QMC configuration is provided by the OAM.

# 2 Actions

**To RAN2**

**ACTION:** SA4 kindly asks RAN2 to take the above information into account and provide feedback if any.

# 3 Dates of next TSG SA WG 4 meetings

SA4#126 13th-17th Nov 2023 Chicago, US

SA4#127 29th Jan-2nd Feb 2024 Sophia-Antipolis, FR