**3GPP TSG-SA5 Meeting #158 *S5-247219***

Orlando, USA, 18 - 22 November 2024

**Title: Reply LS on AIML Data Collection**

**Response to: RP-242389 on LS on AIML data collection from TSG RAN**

**Release: Rel-19**

**Work Item: NR\_AIML\_Air**

**Source:** **SA5**

**To:** **TSG RAN**

**Cc: TSG SA, SA2, SA3, RAN1, RAN2, RAN3**

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

**Attachments:** None

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# 1 Overall description

SA5 thanks TSG RAN for the LS on the AIML data collection described in S5-245373/RP-242389.

SA5 has asked further clarification from RAN2 whether the “Server for data collection for UE-side model training” is controlled by MNO and the details on standardized data to be collected. We have received a response in S5-247127/R2-2411114.

# 2 Detailed information

SA5 would like to share the following information.

## 2.1 SA5 UE data collection related mechanisms

SA5 has defined the following collection mechanisms related to UE data collection.

* MDT data collection is documented in TS 32.422, which can collect measurements from UE.
* NG-RAN UE level measurements collection and reporting are documented in TS 28.558.
* QoE data collection is documented in TS 28.405.

## 2.2 Analysis of SA5 relevance to option 1a/1b/2/3

**For option 1a:**

* There is no standardized management support identified from SA5.

**For option 1b and 2:**

* Based on RAN2 response, the “Server for data collection for UE-side model training” in option 1b and 2 is controlled by MNO. SA5 will need to evaluate potential management support that may be needed to manage the server including multiple deployment scenarios based on the progress in SA2 and RAN.

**For option 3:**

CP tunnel:

* The feasibility for the functionality of “Server for data collection for UE-side model training” to be carried by TCE as defined in SA5 MDT mechanism or MCE as defined in SA5 QoE mechanism for CP tunnel can be studied in SA5. SA5 will need to evaluate potential enhancement that may be needed based on the progress in RAN.

UP tunnel:

* The feasibility of UP tunnelling methods covering UE, gNB, OAM, and Server for data collection for UE-side model training needs to be studied, along with potential coordination with SA2.

# 3 Summary:

3-1. The feasibility of the CP tunnel approach using MDT measurements discussed as part of option 3 is to be studied including RAN requirements of full controllability, full visibility and future-proofness.

The feasibility of the UP tunnel indicated in option 3 between UE and OAM needs to be studied including RAN requirements of full controllability, full visibility and future-proofness, along with potential coordination with SA2.

3-2. For option 1b and option 2, there may be management and control requirements for SA5. Therefore, SA5 should be involved in the discussions of both option 1b and option 2.

# 4 Actions

**To TSG RAN**

**ACTION:** SA5 would like to ask RAN to take into consideration 3-1 and 3-2 provided in the summary above. SA5 further request RAN to inform us on the progress of this work in RAN to assist with the planning of work in SA5.

# 5 Dates of next TSG SA WG5 meetings

SA5#159 17 February - 21 February 2025 Sophia-Antipolis, France

SA5#160 07 April - 11 April 2025 Gothenburg, Sweden