**3GPP TSG-RAN WG2 Meeting #128 R2-2411151**

**Orlando, USA, 18 – 22 November 2024**

**Title: [DRAFT]** Reply LS to SA2 on AIML data collection

**Response to:** S2-2411191/ R2-2409527

**Release:** Release 19

**Work Item:** FS\_AIML\_MGT\_Ph2

**Source:** Interdigital [TSG RAN WG2]

**To:** SA2

**Cc:** TSG RAN, RAN1, RAN2, RAN3, TSG SA, SA5, SA3

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**Attachments:** -

1. **Overall Description:**

RAN2 thanks SA2 for the Reply LS on AIML Data Collection (S2-2411191/ R2-2409527). RAN2 has concluded the following answers for the questions of the LS as below.

**SA2’s question 1:**

*Are there any aspects of the UE-data collection controllability, that required NG-RAN involvement? If so, what is the involvement of NG-RAN in UE-data collection controllability, e.g., what aspects of MNO controllability would require NG-RAN involvement and what would such involvement be?*

*As an example of the kind of feedback that is requested, some companies in SA2 understand that initiating (e.g., triggering), terminating collection of UE-side data and controlling data transfer may require NG-RAN involvement, and it is currently not clear what this involvement may be.*

**RAN2’s answer:**

RAN2 wants to clarify the following for the discussion of the *UE side data collection for UE side model training*:

* *Data collection* refers to the UE collecting data that involves the UE performing measurements (e.g., radio measurements).
* *Data transfer* refers to the sending/transfer of the collected data from the UE to Server for data collection for UE-side model training/OTT server (as capture in Table 7.2.1.3.2-1) in TR38.843.

SA2 can assume that the NG-RAN is involved in providing radio measurement configuration (if needed) for the UE side data collection at least for the beam management use case, as captured in the following agreement in RAN2-127bis:

*Data collection initiation and configuration for data collection is under network control.  FFS how the NW determines whether data collection should be initiated (e.g., via UE requests (UE directly or UE server))*

Data transfer can happen at any point in time under network control if there is collected data available in the UE. Furthermore, for data transfer, RAN2 hasn’t studied/concluded on the level of NG-RAN involvement.

RAN2 will continue the discussion on data collection configuration and RAN2 will appreciate SA2/SA5 input on the data transfer process.

**SA2’s question 2:**

*Furthermore, with regards to “initiating, terminating and fully managing data transfer” some companies in SA2 believe that further clarification is required, on a per use case basis, on where (which entities) and under what conditions, should controllability be performed, e.g., in NG-RAN, a NF, OAM, an MNO controlled AF, a 3rd party AF, a UE)?*

**RAN2’s answer:**

SA2 can assume that the gNB is involved in providing radio measurement configuration (if needed) for beam management use case and LMF is involved in providing radio PRS measurement configuration (if needed). However, RAN2 has not agreed that the gNB/LMF is in charge of “initiating, terminating and fully managing data transfer”.

**SA2’s question 3:**

*Furthermore, some companies in SA2 wondered whether full controllability would have any impact on UE normal operation. If so, what impact is expected from RAN2 perspective to enable UE-side Data Collection?*

**RAN2’s answer:**

RAN2 has not evaluated/analyzed the impact on UE’s normal operation due to the full controllability of the data collection process.

**SA2’s question 4:**

*Some companies in SA2 understands that standardized data content refers only to data reflecting results of measurements performed by the UE according to network measurement configuration. SA2 would kindly asks RAN2 to confirm this understanding.*

**RAN2’s answer:**

Standardized data refers to data whose format/content is explicitly defined in 3GPP specifications, allowing the network to understand its content and meaning.

**SA2’s question 5:**

*Does RAN2 expect data to be collected from UEs that are roaming?*

**RA2’s answer:**

Roaming considerations are outside the scope of RAN2.

**SA2’s question 6:**

*SA2 would like confirmation from RAN2, whether it is sufficient that the data content be standardized and MNO knowing which data type is collected, and the MNO knowing the actual data content to be considered as the MNO having full visibility of such data or should further conditions be required in order to declare that the MNO has full visibility of such data, e.g. whether MNO need to verify the match between the data transferred and the data collected ?*

**RA2’s answer:**

As stated in the LS sent from RAN, visibility of data content signifies that the MNO will be able to be aware of, access, and comprehend the content of the collected/reported data without the need of SLA. Thus, full visibility allows the MNO to verify/match the data specified/configured to be collected and the data that is being reported.

**2. Actions:**

**To SA2**

**ACTION:** RAN2 respectfully asks SA2 to take the above answers into consideration.

**3. Date of Next TSG-RAN WG2 Meetings:**

RAN2#129 from 2025-02-17 to 2025-02-21 Athens, GR

RAN2#129-bis from 2025-04-07 to 2025-04-11 China, CN

RAN2#130 from 2025-05-19 to 2025-05-23 Malta, MT