TSG SA4#111e meeting ***Tdoc S4-201439***

November 11-20, 2020

**Title:** DRAFT reply on method for collection of data from the UE

**Response to:** S4-201461 (S2-2006292)

**Source:** 3GPP SA4

**To:** 3GPP SA2

**Cc:** 3GPP SA3

**Contact Person:**

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 **Attachments:** Attach discussion doc?

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

**1. Overall Description:**

SA4 thanks SA2 for the LS on on method for collection of data from the UE, or more specifically, how the NWDAF can collect such data. SA2 asked SA4 to study the feasibility of two different solutions (described in more detail in TR 23.700-91):

* Solution #27: The UE application exchanges information with an MNO AF, which in turn communicates with the NWDAF.
* Solution #64: The UE application exchanges information with an ASP Server, which in turn communicates with an MNO-AF (also called DC-AF) over a (possibly enhanced) M1d interface, which then communicates with the NWDAF. It is also specified that the communication between ASP client and ASP server is out of 3GPP scope.

SA2 also asked SA4:

* For solution#27, inform about a feasible method for how the MNO AF may acquire the UE IP address (as this is needed for further data correlation purposes).
* To confirm if the protocol for such data collection from UE can be generic enough to accommodate both 3GPP and non-3GPP services.

SA4 has investigated the solutions #27 and #64, based on the existing client metrics reporting functionality defined for 5G Media Streaming (5GMS, see TS 26.501 and TS 26.512). This metrics reporting functionality is AF-based and uses a Service Access Information (SAI) object for AF and client configuration. SA4 finds (see analysis in S4-201438 for more details) that:

* If 5GMS is selected as basis some adaptions are required.
* Solution #27 (and #29) is feasible and seems to fit well into the 5GMS architecture, although some enhancements are likely needed (add authentication, add application id, specify how to connect NWDAF and MNO AF, adapt the SAI).
* Solution #64, where the data path between UE and ASP server is formally outside scope of 3GPP, is also feasible, and could possibly re-use either the M1d or the M5d interfaces to feed client data to the MNO AF. Probably some enhancements are needed (adapt M1d or M5d, specify how to connect NWDAF and MNO AF).
* For Sol#27, i.e. for direct collection of data between UE Application Client (Media session handler) and 5GMSd AF in the trusted domain, the IP address could just be read from the IP header by the MNO AF..
* Both 3GPP and non-3GPP services can be supported to transfer application level UE data/parameters.’SA4 also would like to notify SA2 the AF for UE data collection (defined as 5GMS AF in 26,501) can be both in trusted or untrusted domain.

Besides the answers above, SA4 kindly asks SA2 to confirm whether direct reporting (UE->MNO AF), indirect reporting (UE-> ASP Server-> DC-AF), or both are needed from SA2 perspective.

SA4 also notes that an SA4 study item or work item might be needed if the current 5GMS functionality shall be enhanced to also cover the above SA2 solutions. Therefore, SA4 kindly asks SA2 to inform SA4 of any SA2 decisions for going forward.

**2. Actions:**

**ACTION:** SA4 kindly asks SA2 to take the above information into account, and to inform SA4 of any decisions regarding implementation of the data collection functionality.

**3. Date of Next SA4 Meetings:**

SA4#111-e 11 - 20 November 2020 E-meeting

SA4#112-e xx - xx February 2021 E-meeting

SA4#113-e xx - xx April 2021 E-meeting