**3GPP TSG-SA3 Meeting #109 AdHoc-e Draft\_S3-230218-r1**

**e-meeting, 16th – 20th** **January, 2023**

**Source: OPPO**

**Title:** **New** **solution on** **authorization for 5GC assistance information exposure to external AF**

**Document for: Approval**

**Agenda Item: 5.20**

# 1 Decision/action requested

***It is proposed a new solution*** ***to address the KI #1 in TR 33.898.***

# 2 References

[x] 3GPP TS 33.501

[y] 3GPP TS 33.122

# 3 Rationale

It is proposed a solution to address the Key issue #1 “Privacy and authorization for 5GC assistance information exposure to AF”.

# 4 Detailed proposal

\*\*\*\*\*\*\*\*\* Begin 1st change\*\*\*\*\*\*\*\*\*

5.Y Solution #Y: Authorization for 5GC assistance information exposure to external AF

5.Y.1 Introduction

This solution addresses the Key issue #1 “Privacy and authorization for 5GC assistance information exposure to AF”. It is proposed to reuse the existing service authorization mechanism for AF that is external to the operator’s network. User consent may be needed for the personal data exposure to AF, and the NEF is deemed the enforcement point for user consent.

5.Y.2 Solution details



**Figure 5.Y.2-1:** **Authorization for 5GC assistance information exposure to external AF**

Step 1. The AF discovers and selects its serving NEF that supports its target AI/ML Service.

Step 2. A PDU Session between the UE and the AF may have been established.

Step 3. AF requests the AI/ML service by sending NEF service request.

Step 4. The NEF authorizes the service request using OAuth-based authorization mechanism as specified in clause 12.4 of TS 33.501 [x]. If NEF supports CAPIF for external exposure, the CAPIF authorization mechanism specified in clause 6.5 of TS 33.122 [y] can be reused.

The NEF determines whether the user consent check is needed based on the service request and operator's local policy, e.g. whether the requested service is to process user's personal information, whether regulation is required, etc. If there is no need to check user consent, steps 5-7 can be skipped.

Step 5. If there is no user consent parameter in the NEF's UE context, the NEF sends the Nudm\_SDM\_Get Request message to the UDM, including the UE ID, and may include purpose of data processing, data processor ID.

Step 6. The UDM returns requested user consent parameters.

Step 7. The NEF is deemed an enforcement point for user consent, and checks the user consent reusing the user consent framework defined in Annex V in TS 33.501 [x].

Step 8. Based on the outcome of the AI/ML service procedures, NEF replies to AF with the service response.

5.Y.3 Evaluation

TBD.

\*\*\*\*\*\*\*\*\* End 1st change\*\*\*\*\*\*\*\*\*