**3GPP TSG-SA3 Meeting #110 *S3-23xxxx***

Athens, Greece, 20 - 24 February 2023

**Title: draft LS reply to TSG SA on LS S3-223147 on** ***5G capabilities exposure for factories of the future – identified gaps* from 5G ACIA**

**Response to: LS S3-223147 on *5G capabilities exposure for factories of the future – identified gaps* from 5G ACIA**

**Release: not specified**

**Work Item:**

**Source: Nokia, Nokia Shanghai Bell to be SA3**

**To: TSG SA**

**Cc: TSG SA WG1, 3GPP TSG SA WG2, 3GPP TSG SA WG3, 3GPP TSG SA WG5, 3GPP TSG SA WG6, TSG CT**

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**Attachments:**

# 1 Overall description

SA3 would like to thank 5G-ACIA for their LS 5G-ACIA-LS-2022-005 on "5G capabilities exposure for factories of the future – identified gaps" (S3-223147) and would like to thank WG SA for their effort to coordinate the response to 5G ACIA.

SA3 has discussed the LS from 5G ACIA with a focus on Gaps G.1, G.3 and limitation L.6, which have been identified as being potentially relevant for SA3. The following conclusions have been agreed:

**G.1 Provisioning of subscriptions**

SA3 did not standardize or does not have plans to standardize a mechanism to provision information related to the identity of a subscription (i.e., UE Ids or authentication keys) into the 5G core. This functionality is provided by vendor proprietary solutions.

For the sake of clarity SA3 also points out that SA3 did not define and does not have plans to define a protocol for provisioning of subscription data to a UE. As part of Release 17 SA3 contributed to the "UE Onboarding" feature, which consists of providing a UE without regular subscription with user plane (i.e., Internet Protocol) connectivity to a provisioning server. However, the actual protocol between the UE and the provisioning server is not part of this feature and thus not specified within 3GPP.

**G.3 Provision of security event/logging information**

SA3 interprets the terms event and logging information in such way, that it refers to events and logging information originating from the 5G core, but not to events and logging information originating from the UE.

According to the understanding of SA3 security events and logging information include for instance information relating to successful and unsuccessful (primary, secondary, slice specific) authentications of UE and information relating to applied protection of user plane traffic.

SA3 did not and does not have plans to standardize exposure of these events or logging information. SA3 proposes to take responses from other working groups (e.g., SA2, SA5) into account, when assessing this gap.

Based on requirements from SA1 or proposals from member companies, SA3 can work on adding these events following the 3GPP SA3 working procedures.

Due to the sensitive nature of the information to be exposed, SA3 suggests being consulted, in case other working groups plan to standardize the exposure of the requested information.

**L.6 Fine-grained authorization**

SA3 points out that the authorization of Application Functions (AF) at the exposure point can be executed using the OAuth 2.0 procedures. The currently defined scopes allow authorization on the level of services.

Additional studies or work items related to introduction of fine granular scopes can be proposed and executed following the SA3 working procedures. Furthermore, vendors might define and make available additional scopes in their specific products.

In addition to authorization based on OAuth 2.0, the exposure points might limit the scope of API calls in a fine granular way based on implementation specific policy checks as indicated in Clause 12.2 of TS 33.501.

# 2 Actions

**To TSG SA**

**ACTION:** SA3 kindly request SA to take above information into account, especially when preparing a response to 5G ACIA.

**To TSG SA WG1, 3GPP TSG SA WG2, 3GPP TSG SA WG3, 3GPP TSG SA WG5, 3GPP TSG SA WG6, TSG CT**

**ACTION:** SA3 kindly request all working groups in CC to take above information into account.

# 3 Dates of next TSG SA WG 3 meetings

SA3#110Bis-e 17 - 21 April 2023 Electronic meeting

SA3#111 22 - 26 May 2023 EU (TBD)