**SA WG2 Meeting #162S2-2405195**

**Changsha China, April 15th–April 19th, 2024 (revision of S2-2404546)**

**Source: Nokia, Dish, InterDigital Inc ?**

**Title: Clarification to Architectural Assumptions**

**Document for: Approval**

**Agenda Item: 19.8**

**Work Item / Release: FS\_UIA\_ARC / Rel-19**

*Abstract of the contribution: Clarification related to limitations to the User Identifiers with respect to linked UE Subscription.*

# 1 Discussion

The text in section 4.1 Architectural Assumption as mentioned *below* provides a guidance that the information from the user profile should not be used to override information in a subscription, it also guides to an incorrect interpretation that the User Identifiers that are linked to a UE Subscription shall always have the same information as that of the UE Subscription.

While it is true that the User Identifier is authorized and linked to a UE Subscription, it is not necessary that the User Identifier will always have all the rights (information) same as that of the UE Subscription. For example, the UE Subscription of a parent may have data network access belonging to a general DNN “internet” and to a corporate enterprise DNN “xyz.company.com” that the parent has an association with. It is then well required that the UE Subscription (the parent) should be able to limit the DNNs that the User Identifier (the child) needs to be associated. For example, in this case, the parent may want to restrict the association of the child to the “internet” DNN only amongst the two associated DNNs that the UE Subscription has.

*Subscriber/subscription information will not be moved into a user profile and information from the user profile should not be used to override information in a subscription. For example, the slices and DNNs that are available to the UE do not change based on the user of the UE.*

# 2 Proposal

It is proposed to update TR 23.700-32 as follows.

\* \* \* \* First change \* \* \* \*

## 4.1 Architectural Assumptions

The architecture in this study should be based on the following assumptions:

- The architecture, framework and the QoS model as specified in TS 23.501 [4], TS 23.502 [5], and TS 23.503 [6] are regarded as the baseline for this study.

- Subscriber/subscription information will not be moved into a user profile and information from the user profile should not be used to override information in a subscription. For example, when the user is active, the slices and DNNs that are available to the user are only the slices and DNNs that are available to both (i.e. UE Subscription and user profile).

- The subscription is a 5GS subscription.

- When the user identifier applies to a human, only a single user identifier is active with a UE subscription at a given time and it is assumed that the specific user identifier is associated with all of the UE's traffic during the time that specific user identifier is active with the UE's subscription.

NOTE 1: The identifier of the non-3GPP devices in this study might not be called a “user identifier”. A different name may be selected during the study.

NOTE 2: A user is considered active if the associated user identifier has been authenticated and authorized to use a linked subscription to access the 5GS.

NOTE 3: It is assumed that the non-3GPP devices do not support 5G-AKA authentication procedures nor separate NAS connections with the 5GC for each non-3GPP device (e.g. like for AUN3 devices).

- The User Identifier and any subscription that it links to are assumed to be associated with the same PLMN (e.g. the operator that manages the User Identifier and the operator that manages the subscription is assumed to be the same).

- For the case of non-3GPP device(s) behind a UE or 5G-RG, how a user identifier and any associated credentials are provisioned in a non-3GPP device, UE, or application is assumed not in scope of this study (e.g. the credentials need to be provisioned in the non-3GPP device by an operator, human user, or a 3rd party).

- Application layer interaction between an application client of the UE and application server is assumed not in scope of this study.

\* \* \* \* End of Changes \* \* \* \*