**Pre-SA2 #163 NWM Discussion**

**(The contents below will be posted to NWM. Each Q needs ‘Feedback Form’ in NWM)**

**Title: Pre-SA2 #163 NWM Discussion for FS\_UIA\_ARC Rel-19 Conclusions**

**Source: InterDigital (FS\_UIA\_ARC Rapporteur)**

# 1. Introduction

It is anticipated that the questions below are a first round of questions. A second round of questions can be more focused based and cover just the options that have noticeable support. For example, if 10 companies prefer option A and 2 companies prefer option B, then the second round of questions will be about the details of option A.

# 2. Collection of companies’ views to be considered for conclusions

2.1 Key Issue #1

**Question KI#1.1:** It has already been concluded that the User Identifier format is an NAI. Can the User Identifier be operator assigned, third party assigned or should both options be possible?

**Question KI#1.2:** Is the User Identity Profile managed by the operator, third party, or should both options be possible?

**Question KI#1.3:** Where is the User Identity Profile Stored (e.g. UDR, a different NF, or outside of the 5GC)?

**Question KI#1.4:** There is an editor’s note in the conclusion that says that whether more than one User Identity can be in the User Identity Profile is FFS. Should it be possible for more than one User Identity to be in a User Identity Profile? If yes, then what is the use case?

**Question KI#1.5:** It has already been concluded that a User Identity Profile includes a list of linked subscriptions. What other information, or parameters, should be stored in the User Identity Profile (e.g. information for service differentiation, credentials)?

**Question KI#1.6:** It has already been concluded that a User Identifier can be linked/unlinked with a subscription. What event(s), or request(s), trigger the User Identifier to be linked/unlinked (e.g. a request received via an NEF API)?

**Question KI#1.7:** In this release, when a user identifier is active with a subscription, should PCC Rules be adjusted (e.g. based on information from the user identity profile)?

**Question KI#1.8:** When a user is active with a subscription, is information from the user profile used to determine how to influence QoS for the UE’s PDU Session(s)?

**Question KI#1.9:** In this release, when a user identifier is active with a subscription, should SMS over NAS be disabled or should it be possible to use SMS over NAS?

**Question KI#1.10:** In this release, when a user identifier is active with a subscription, should it be possible to use the IMS service?

**Question KI#1.11:** How does a linked user become active with a subscription (e.g., API Invocation, Application Layer Interaction, Registration, PDU Session establishment)?

**Question KI#1.12:** Which principles can be selected or considered for key issue #1 conclusions? Also identify, if possible, which solution(s) the principles are taken from.

2.2 Key Issue #2

**Question KI#2.1:**When the user is authenticated, authentication is performed between the UE and what entity (e.g. AAA Server)?

**Question KI#2.2:** Should interaction between the UE and entity (i.e. the entity from the previous question) be via NAS or user plane?

**Question KI#2.3:** What entity enforces the restriction that only one user shall be active with a UE’s subscription at a given time?

**Question KI#2.4:** Which principles can be selected or considered for key issue #2 conclusions? Also identify, if possible, which solution(s) the principles are taken from.

2.3 Key Issue #3

**Question KI#3.1:**How is user profile information and functionality exposed (e.g. NEF APIs)?

**Question KI#3.2:** What user profile information can be exposed? For each piece of information, please describe a use case.

**Question KI#3.3:** Which principles can be selected or considered for key issue #3 conclusions? Also identify, if possible, which solution(s) the principles are taken from.

2.4 Key Issue #4

**Question KI#4.1:** Is it necessary for the 5GC to be able to identify traffic from each individual non-3GPP device (i.e. in scenarios where differentiation for charging is desired)?

**Question KI#4.2:** Is it necessary to specify a procedure to facilitate authentication via the 5GC of the user identifier associated with each individual non-3GPP device(s) connecting behind the UE or 5G-RG (i.e. to enable service differentiation and charging)?

**Question KI#4.3:** Is it necessary to specify a procedure where the UE or 5G-RG binds/associates the user identifier to a user identifier without requiring authentication via the 5GC of the non-3GPP device (i.e. to enable service differentiation without charging)?

**Question KI#4.4:** In this release, should the operator be able to optionally restrict the number of simultaneously active User Identifiers per UE or 5G-RG?

**Question KI#4.5:** When the operator restricts the number of simultaneously active User Identifiers per UE or 5G-RG, should it be possible for the UE or 5G-RG to send traffic from non-3GPP devices that are not associated with a user identifier?

**Question KI#4.6:** Can the traffic from the non-3GPP devices share the same PDU Session? If no, is a different DNN/S-NSSAI combination used for each PDU Session?

**Question KI#4.7:** Which principles can be selected or considered for key issue #4 conclusions? Also identify, if possible, which solution(s) the principles are taken from.