**3GPP TSG-SA3 Meeting #119 S3-245257**

Orlando, US, 11 -15 November 2024

**Source: Huawei, HiSilicon**

**Title: New solution for USS triggered UUAA for KI#1**

**Document for: Approval**

**Agenda Item: 5.11**

# 1 Decision/action requested

***Approve the pCR proposal for TR 33.759***

# 2 References

[1] 3GPP TS 23.256

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# 3 Rationale

It has been specified in TS 23.256 (R19) that the UUAA may be triggered by a serving USS for the USS changeover[1]. However, only this option is not specified in TS 33.256 [2], i.e., only UE or AMF/SMF triggered UUAA (or USS triggered reauthentication) is specified in TS 33.256 [2].

In this contribution, it is proposed to extend the UUAA procedure to include USS triggered UUAA.

# 4 Detailed proposal

pCR

\*\*\* START OF CHANGES \*\*\*

## 6.X Solution #X: Serving USS triggered UUAA for target USS

### 6.X.1 Introduction

This solution addresses the Key Issue #1. In order to accomplish the USS changeover, the serving USS may trigger a UUAA procedure for the target USS and the UAV. In this solution, three options are presented.

### 6.X.2 Solution details

**Option 1 – serving USS triggers through PDU session**

It is assumed that the serving USS has an active PDU session with the UAV. The serving USS may send the target USS address to the UAV through the PDU session, that is transparent to the 5GC.

Upon receiving the target USS address, the UAV initiates a PDU session modification request including the target USS address for the UUAA with the target USS.

The rest procedure is the same as TS 33.256 [4]

**Option 2 – serving USS triggers UUAA through AMF/SMF**

This option is modified from the USS initiated re-authentication procedure in clause 5.2.1.4 of TS 33.256 [4].

Step 1. The **serving** USS sends an authentication request (instead of a re-authentication request) to the UAS NF and also includes the target USS address in the request.

Step 2. Skip the checking for re-authentication.

Step 5a/5b. The AMF/SMF initiates the UUAA with the target USS with the target USS address.

**Option 3 – target USS triggers UUAA through AMF/SMF**

This option is modified from the USS initiated re-authentication procedure in clause 5.2.1.4 of TS 33.256 [4]. The serving USS informs the target USS to trigger the UUAA with the UAV through the interface between the USSes.

Step 1. The **target** USS sends an authentication request (instead of a re-authentication request) and also includes the target USS address in the request.

Step 2. Skip the checking for re-authentication.

Step 5a/5b. The AMF/SMF initiates the UUAA with the target USS with the target USS address.

NOTE: The three options should be aligned with SA2.

### 6.X.3 Evaluation

The solution addresses the requirement of Key Issue #1.

The UUAA specified in TS 33.256 [4] is reused and enhanced with three options to trigger UUAA by a USS. Amongst them, two options are triggered by the serving USS and one option is triggered by the target USS.

\*\*\* END OF CHANGES \*\*\*