**3GPP TSG-WG SA4 Meeting #124 *S4-230871***

**Berlin, Germany, May 22 – 26, 2023 (revision of S4-230xxx)**

**Source: Huawei, HiSilicon**

**Title: Candidate solution for network slice migration when multiple slices provisioned**

**Document for: Approval**

**Agenda Item: 8.9**

**Work Item / Release: FS\_MS\_NS\_Ph2 / Rel-18**

# 1. Introduction

In last SA4#123e meeting, the candidate solution for provisioning of multiple network slices is introduced and agreed in the draft TR 26.941. However, once the provisioning is done, how to trigger the network slice change by the media session handler is still unclear. This paper proposes to add further details on that.

# 2. Text proposal

\* \* \* First change \* \* \* \*(all new)

#### 6.1.2.2 Candidate solution #2: Network Slice change based on the provisioned multiple network slices

Pre-requisites and assumptions:

- The one or more Network Slices are already provisioned and activated. Appropriate Slice and DNN identifiers are known to the 5GMS Application Provider.

- A Policy Template with multiple pairs of Network Slice and DNN has been provisioned at the 5GMS AF and the Media Session Handler has already obtained Service Access Information from the 5GMS AF including this Policy Template.

Then when the service requirements change, i.e., the gaming user chooses to pay the ASP for higher performance, the Media Session Handler needs to request a change of Network Slice from the 5GMS AF:

1. The Media Session Handler understands the application needs to switch to the target Network Slice.

2. The Media Session Handler invokes the Dynamic Policy API exposed by the 5GMS AF with the target Network Slice and/or DNN inside, indicating that the current 5GMS session needs to be migrated to the target Network Slice and/or DNN.

3. On receiving this request, the 5GMS AF knows that the previous Network Slice and/or DNN is to be changed to the target pair. The 5GMS AF invokes the Nnef\_AFSessionWithRequiredQoS service operation to provide guidance for URSP determination to the 5G system via the NEF as described in clause 4.15.6.10 of TS 23.502 [15].

4. When receiving the updated URSP rule, the UE re-runs the URSP evaluation and decides whether to establish a new PDU Session, or whether to reuse an existing PDU Session with the target Network Slice and/or DNN.

5. The ongoing 5GMS session is migrated to the new or reused PDU Session, as appropriate.

\* \* \* \* End of changes \* \* \* \*