**3GPP TSG-SA5 Meeting #143-e *S5-223342***

**e-meeting, 9-17 May 2022**

**Source: China Mobile**

**Title: Add use case3 for user plane handing of FS\_5GLAN\_Mgt**

**Document for: Approval**

**Agenda Item: 6.5.11**

# Decision/action requested

***The group is asked to discuss and endorse the proposal in section 4***

# 2 References

[1] SP-220324 " New Study on Management Aspects of 5GLAN "

[2] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

# 3 Rationale

This contribution proposes to add usecase for TR 28.833.

# 4 Detailed proposal

It proposes to make the following changes.

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| **1st Change** |

# 5 Use cases and potential requirements

## 5.X Use case X: User Plane handling

### 5.X.1 Description

A 5G LAN service is subscribed and the 5G VN group1 is created. The UE 1 accesses the 5G VN group 1, and sends the message/data to the other UEs using either the N6-based, Local-switch or N19-based user plane. The 5G LAN architectures for N6-based, Local-switch and N19-based used in the use case is described in the clause 4.2.

The consumptions of network traffic in operator are different in three types of traffic forwarding methods of 5G VN group communication. For Local switch, the traffic is locally forwarded by a single UPF for the same 5G VN group. In this scenario, the volumes of traffic among UEs are mainly in the intranet of enterprise. For N19-based, the traffic for the 5G VN group communication is forwarded between PSA UPFs of different PDU sessions. For N6-based, the traffic for the 5G VN communication is forwarded to/from the DN. N19-based and N6-based occupy more resources and traffics of operator than Local switch.

Therefore, there are three types of traffic forwarding for 5G VN group communication, how to configure and select these traffic forwarding methods has not been discussed. Also, management of N19 tunnel establishment needs to be specified.

### 5.X.2 Potential requirements

**REQ-LAN-UPH-01** The 3GPP management system should have the capability to manage the 5G VN group communication by using either the N6-based, Local-switch or N19-based user plane.

**REQ-LAN-UPH-02** The 3GPP management system should have the capability to manage the N19 tunnel establishment for 5G VN group communication.

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| **End of Change** |