**3GPP TSG-SA5 Meeting #145-e *S5-225301***

**e-meeting, 15 - 24 August 2022**

**Source: Ericsson**

**Title: Adding use case in clause 7.4 where there are multiple additional actors**

**Document for: Approval**

**Agenda Item: 7.5.3**

# 1 Decision/action requested

**Include the proposed changes in TR 28.827.**

# 2 References

[1] 3GPP TR 28.827: "Study on 5G charging for additional roaming scenarios and actors"

# 3 Rationale

There might be a reseller between the additional actor (e.g., MVNO) and the MNO. The reseller will aggregate several additional actors and do wholesale towards these. The additional actors will still do retail charging and might require online capabilities. Allowing an architecture where there is a reseller between the MNO and the additional actor might impact the solution selected.

# 4 Detailed proposal

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| **First change** |

#### 7.4.1.1 Use case #4a: Additional actor does retail charging for 5G data connectivity

This use case focuses on additional actor (e.g., MVNO) and subscriber business roles.

A subscriber has a UE and a subscription with the additional actor which allows usage of 5G data connectivity. The additional actor has their own billing and charging (CHF), but no other NFs.

The additional actor charging of the subscriber could be based on data volume that the UE has used in the MNO’s network considering of the following aspects:

- RAT type;

- S-NSSAI;

- DNN;

- QoS information.

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| **Second change** |

#### 7.4.1.x Use case #4c: Use case for additional actor does wholesale charging for 5G data connectivity towards another additional actor

This use case focuses on home MNO, additional actors, and subscriber business roles.

A subscriber has a UE and a subscription with an additional actor (retailer) which allows usage of 5G data connectivity. The additional actor (retailer) has an agreement with another additional actor (wholesaler) for usage of 5G data connectivity, the other additional actor (wholesaler) in turn has agreement with the home MNO for 5G data connectivity, this allows the additional actor’s (retailer) subscribers (UEs) to use the home MNO’s network. The additional actors have their own billing and charging (CHFs), but no other NFs.

The additional actor (wholesaler) charging of the additional actor (retailer) could be based on data volume that additional actor’s (retailer) subscribers (UEs) has used in the home MNO’s network considering of the following aspects:

- RAT type;

- S-NSSAI;

- DNN;

- QoS information.

The additional actor (retailer) charging of their subscriber could be based on data volume that the UE has used in the home MNO’s network considering of the following aspects:

- RAT type;

- S-NSSAI;

- DNN;

- QoS information.

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| **End of changes** |