**3GPP TSG-SA5 Meeting #145-e *S5-225305***

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

**Source: Ericsson**

**Title: Update of business roles**

**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** |

# 4 Business roles

5G roaming scenarios involves the services or capabilities provided by multiple actors and entities in the form of following business roles:

- Home Mobile Network Operator (home MNO): This is an operator of PLMN where the MCC and MNC of the PLMN identity is same as the MCC and MNC of the UE’s SUPI, also referred to as HPLMN.

- Visited Mobile Network Operator (visited MNO): This is an operator of PLMN where the MCC and MNC of the PLMN identity is different from the MCC and MNC of the UE’s SUPI, also referred to as VPLMN

- Additional actor: this is a retailer or a wholesaler of mobile services but does not own licensed radio spectrum, an additional actor that is a retailer is often referred to as Mobile Virtual Network Operator (MVNO).

In deployments, there could be scenarios where one or more of the business roles are supported by a single enterprise, i.e., one enterprise may play a single business role or multiple business roles. The present document does not impose any restrictions to the possible deployment scenarios.

There could be various business models in terms of charging for the network services provided and between the entities being served, for example (but not limited to):

- Home MNO charges the subscribers for usage of network services in visited MNO.

- Home MNO charges the MVNO for its subscribers’ network service usage in home MNO, or network service usage in visited MNO

- MVNO charges the subscribers for usage of network services in visited MNO and/or home MNO.

- Visited MNO charges home MNO for its subscribers’ usage of network services in visited MNO.

The solutions described in the present TR aim to flexibly support the charging scenarios without restriction to any specific business model.

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| **End of changes** |