**3GPP TSG-SA5 Meeting #143-e *S5-223084rev1***

e-meeting, 9 - 17 May 2022

**Source: China Mobile**

**Title: Rel-18 pCR 28.828 Introduction of charging modes**

**Document for: Approval**

**Agenda Item: 7.5.4**

# 1 Decision/action requested

***The group is asked to discuss and agree on the proposal.***

# 2 References

[1] 3GPP TR 28.828: "Charging management; Study on charging aspects for enhanced support of non-public networks".

# 3 Rationale

This pCR proposes to introduce charging modes to TR 28.828 [1].

# 4 Detailed proposal

The following changes are proposed to be incorporated into TR 28.828.

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| **First change** |

4.x Charging modes

Non-public networks in 5G environment involves the services or capabilities provided by multiple service providers in the form of following business roles:

- NPN Operator (NPN-OP): a Network Operator (NOP) whose charging scope is limited to 5G networks for non-public use, i.e. NPNs.

- NPN Service Provider (NPN-SP): a Communication Service Provider (CSP) which provides communication services for non-public use, e.g. vertical, tenant, NPN-OP.

- NPN Service Customer (NPN-SC): a Communication Service Customer (CSC) which consumes communication services for non-public use, e.g. end user, vertical, tenant.

Considering the different business models such as B2B, B2C, and B2B2X, charging modes for non-public networks include (but not limited to):

- End user charging;

- Inter-provider charging.

Depending on the scenarios an organisation can play one or several roles simultaneously, and apply charging models based on corresponding business relationship, e.g.:

- Charging models for NPN-SP to charge NPN-SC for using NPN services.

- Charging models for NPN-OP to charge NPN-SP for using their networks and related network services.

- Charging models for NPN-OP playing NPN-SP role to charge NPN-SP playing NPN-SC role for using their networks and NPN services.

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| **End of changes** |