**3GPP TSG-SA5 Meeting #145-e *S5-225185***

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

**Source: China Mobile**

**Title: Rel-18 pCR 28.828 Add end user charging solution to SNPN network access and usage**

**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 add a possible end user charging solution to SNPN network access and usage 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** |

### 5.2.4 Possible solutions

#### 5.2.4.1 Solution #1: End user charging for SNPN network usage of access

##### 5.2.4.1.1 General

This solution #1 which relying on 5G connection and mobility converged charging architecture defined in TS 32.256 [11], with the extension of including Network Identifier for SNPN network access in registration management charging per UE, addresses the Key Issue #2a and Key Issue #2b.

In this solution, AMF collects charging information including Network Identifier per UE registration to the 5GS, and the charging information for end user usage of access in SNPN network reported by AMF is obtained by CHF.

The subclause below describes registration management charging. The following scenarios specified in TS 32.256 [11] are supported:

- PEC;

- IEC;

- ECUR.

For deregistration procedures, only PEC scenario is supported.

##### 5.2.4.1.2 General Registration – PEC charging

This solution is the same as clause 6.1.4.1.2 with:

- "CAG Identifier(s)" replaced by "Network Identifier".

##### 5.2.4.1.3 General Registration – IEC

This solution is the same as clause 6.1.4.1.3 with:

- "CAG Identifier(s)" replaced by "Network Identifier".

##### 5.2.4.1.4 General Registration – ECUR

This solution is the same as clause 6.1.4.1.4 with:

- "CAG Identifier(s)" replaced by "Network Identifier".

##### 5.2.4.1.5 Deregistration – PEC charging

This solution is the same as clause 6.1.4.1.5 with:

- "CAG Identifier(s)" replaced by "Network Identifier".

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| **End of Modified Sections** |