**3GPP TSG-SA5 Meeting #142-e *S5-222195***

**e-meeting, 4 - 12 April 2022**

**Source: MATRIXX Software**

**Title: pCR TR 28.827 Add a use case Key issues and requirements for 7.2**

**Document for: Agreement**

**Agenda Item: 7.5.3**

# 1 Decision/action requested

**This pCR is to introduce a SMS use case, Key issues and requirements for 7.2**

# 2 References

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

# 3 Rationale

This pCR is to introduce a SMS use case, Key issues and requirements for 7.2

# 4 Detailed proposal

The following changes are proposed to be incorporated into TR 28.827 [1]

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| **First change** |

##### 7.2.1.1.x Use case #2x: Visited MNO to Home MNO charging for SMS provided to home MNO’s subscribers in roaming scenario

This use case focuses on visited MNO and home MNO business roles.

The visited MNO to home MNO charging is based on number of SMS sent or received by the home MNO UEs served by the visited MNO’s network considering of the following aspects:

- RAT type;

- Location

Number of SMS sent or received under the above aspects needs to be reconciliated between home MNO and visited MNO.

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| **Next change** |

### 7.2.2 Potential charging requirements

**REQ-CH\_CVTOH-01:** The charging mechanism in visited MNO should support conveying charging information for the 5G data connectivity usage to the home MNO for each UE.

**REQ-CH\_ CVTOH-02:** The charging mechanism in visited MNO should support collecting charging information related to 5G data connectivity usage for each UE.

**REQ-CH\_ CVTOH-xx:** The charging mechanism in visited MNO should support conveying charging information for SMS usage to the home MNO for each UE.

**REQ-CH\_ CVTOH-yy:** The charging mechanism in visited MNO should support collecting charging information related to SMS usage for each UE.

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| **Next change** |

### 7.2.3 Key issues

The following key issues are identified:

- **Key Issue #2a**: Collection of charging mechanism in visited MNO about the 5G data connectivity usage.

- **Key Issue #2b:** Conveying the charging information to the home MNO for 5G data connectivity usage.

- **Key Issue #2c:** Finding the correct CHF

**- Key Issue #2d:** Service based interface to use between visited CHF and home CHF

**- Key Issue #2e:** Trigger handling between visited CHF and home CHF for 5G data connectivity usage.

- **Key Issue #2x**: Collection of charging mechanism in visited MNO for SMS usage.

- **Key Issue #2y:** Conveying the charging information to the home MNO for SMS usage

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| **End of changes** |