**3GPP TSG-SA5 Meeting #143-e *S5-223721***

e-meeting, 9 - 17 May 2022

**Source: Ericsson**

**Title:** **Solution for issue 2c CHF selection**

**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

Two new solutions for issue 2c CHF selection: using NRF to find H-CHF and using SUPI to find H-CHF.

# 4 Detailed proposal

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| **First change** |

#### 7.1.4.x Solution #2.x: Using NRF to find H-CHF

##### 7.1.4.x.1 General

A possible solution for key issue #2c, finding the correct CHF for V-CHF communicating with H-CHF.

##### 7.1.4.x.2 Reference architecture

The reference architecture would be the same as in solution #2.1 clause 7.2.4.1.

##### 7.1.4.x.3 Message flows

The V-CHF would in this case use the vNRF provided service to find the H-CHF, where the vNRF and hNRF may communicate according to TS 23.501 clause 6.2.6.

Editor’s Note: This solution for CHF selection is based the solution where V-CHF communicate with H-CHF, the V-CHF communicate with H-CHF is FFS.

#### 7.1.4.y Solution #2.y: Using SUPI to find H-CHF

##### 7.1.4.y.1 General

A possible solution for key issue #2c, finding the correct CHF for V-CHF communicating with H-CHF.

##### 7.1.4.y.2 Reference architecture

The reference architecture would be the same as in solution #2.1 clause 7.2.4.1.

##### 7.1.4.y.3 Message flows

The V-CHF would in this case use the SUPI i.e., the IMSI number series, to find the V-CHF. In this case the H-CHF address would be pre-provisioned in the V-CHF and allocated to a IMSI series.

Editor’s Note: This solution for CHF selection is based the solution where V-CHF communicate with H-CHF, the V-CHF communicate with H-CHF is FFS.

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| **End of changes** |