**3GPP TSG-SA5 Meeting #148e *S5-233315***

Electronic meeting, Online, 17 -25 April 2023

**Source: Ericsson LM**

**Title: Rel-18 pCR 28.827 Adding conclusion in clause 7.5**

**Document for: Approval**

**Agenda Item: 7.5.2**

# 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

Updating evaluation and adding conclusion for convey charging information from visited MNO to home MNO, and home MNO to an additional actor.

# 4 Detailed proposal

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| **First change** |

### 7.5.5 Evaluation

Solutions #5.1 and #5.2 both solves key issues #5a, #5b, and #5c.

- Solution #5.1 uses a new CHF-to-CHF communication and requires CHF enhancements.

- Solution #5.2 uses a new V-SMF to V-CHF, H-CHF and A-CHF communication.

Solutions #5.3 and #5.4 both solves key issue #5d.

- Solution #5.3 uses NRF to find H-CHF and A-CHF.

- Solution #5.4 uses SUPI to find the H-CHF and local configuration to find the A-CHF and can support the case when there is no A-NRF.

Both can be supported at the same time depending on the visited MN, home MNO and agreement with additional actor.

Solutions #5.5 and #5.6 both solves key issue #5e.

- Solution #5.5 reuses the Nchf\_ConvergedCharging between CHFs and may add additional charging information to better support CHF-to-CHF communication.

- Solution #5.6 uses a new Nchf service and would have different messages as well as triggers.

Solution #5.7 solves key issue #4e.

- Solution #5-7 reuses the solution #2.11 where the trigger for interaction for V-CHF communicating with H-CHF is based on the reception of a charging data request by the V-CHF.

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| **Second change** |

### 7.5.x Conclusion

The solution #5.1 reuses CHF-to-CHF, solution #2.1, with only minor additions to that solution, and should be taken to normative work.

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| **End of changes** |