**3GPP TSG-SA5 Meeting #148e *S5-233314***

Electronic meeting, Online, 17 -25 April 2023

**Source: Ericsson LM**

**Title: Rel-18 pCR 28.827 Adding conclusion in clause 7.4**

**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 an MNO to an additional actor.

# 4 Detailed proposal

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| **First change** |

### 7.4.5 Evaluation

Solutions #4.1, #4.2, and #4.3 all solves key issues #4a and #4b.

- Solution #4.1 uses V-SMF to both H-CHF and A-CHF communication and is supported in the scope of non-roaming 5G connectivity charging.

- Solution #4.2 is outside the current scope of 3GPP SA5.

- Solution #4.3 uses a new CHF-to-CHF communication and requires CHF enhancements. Allowing the CHF to also be a consumer of the Nchf\_ConvergedCharging service would allow for more integration possibilities.

Solutions #4.6 and #4.7 both solves key issues #4c.

- Solution #4.6 uses NRF to find the A-CHF.

- Solution #4.7 uses 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 home MNO and agreement with additional actor.

Solutions #4.4 and #4.5 both solves key issues #4d.

- Solution #4.4 reuses the Nchf\_ConvergedCharging between CHFs and may add additional charging information to better support CHF-to-CHF communication.

- Solution #4.5 uses a new Nchf service and would have different messages as well as triggers.

Solution #4.x solves key issue #4e.

- Solution #4.x 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** |

### 7.4.x Conclusion

The solution #4.1 reuses the V-SMF communicating with both V-CHF and H-CHF, solution #2.2, while solution #4.3 reuses CHF-to-CHF, solution #2.1, both with only minor additions to that solution. Both solutions #4.1 and #4.3 should be taken to normative work.

Editor’s note: Further evaluations are FFS.

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| **End of changes** |