**3GPP TSG-SA5 Meeting #146Bis-e *S5-231113***

Electronic meeting, 16 - 19 January 2023

**Source: Ericsson**

**Title: Adding solution for key issue #1l in clause 5.1**

**Document for: Approval**

**Agenda Item: 7.5.2**

# 1 Decision/action requested

**Include the proposed changes in TR 28.826.**

# 2 References

[1] 3GPP TR 28.826: " Study on Nchf charging services phase 2 improvements and optimizations"

# 3 Rationale

Adding a solution on continue and report the used units during re-authorization in clause 5.1 for key issue #1l covering requirements REQ-CH\_INFO-07.

# 4 Detailed proposal

|  |
| --- |
| **First change** |

#### 5.1.5.x Solution #1.x: Continue and report the used units during re-authorization

A possible solution for key issue #1l covering requirements REQ-CH\_INFO-07, control of granted quota during re-authorization.

The NF Service Consumer allows the service to continue whilst the re-authorization is progress, using the quota between the threshold and the granted quota. Either until the quota has been consumed or receiving a Charging Data Response from CHF.

If the remaining part is used up before receiving a Charging Data Response:

- NF Service Consumer stops the service delivery and waits for the Charging Data Response. When the Charging Data Response is received it will follow the same actions as if it was received before the quota was consumed, see next two if-statements.

If the Charging Data Response with new quota is received before the quota is consumed:

- NF Service Consumer continues the service delivery, deducting the used units from the new granted quota.

If the Charging Data Response with termination action is received before the quota is consumed:

- the NF Service Consumer stops service delivery and reports the recorded used unit in a Charging Data Request [Termination]

|  |
| --- |
| **End of changes** |