**3GPP TSG-SA5 Meeting #143-e *S5-223108***

e-meeting, 9 - 17 May 2022

**Source: Ericsson**

**Title: Adding new trigger category solution clause 5.1**

**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

Adding a solution to charging information optimization using a new trigger category.

# 4 Detailed proposal

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

### 5.1.5 Solutions

#### 5.1.5.x Solution #1.x new trigger category

A possible solution for key issues 1a, 1b and 2b, charging information optimization.

There are two categories of chargeable events are identified:

- immediate report: chargeable events for which, when occurring, the current counts are closed and sent together with the charging data generated by the NF consumer towards the CHF in a Charging Data Request message. Counts indicating zero usage may be reported. New counts are started by the NF consumer.

- deferred report: chargeable events for which, when occurring, the current counts are closed and stored together with the charging data generated by the NF consumer. Counts indicating zero usage may be included. The stored counts will be sent to the CHF in next a Charging Data Request message. New counts are started by the NF consumer.

In the case of immediate it should trigger a request even for the case when there is no request for service usage. The reason for this is to request units based on the new charging information (i.e., updated due to the trigger), this may include a report of the units used for the charging information before the trigger.

To be able to only trigger when there is actual usage on the new charging information a new category of chargeable event is introduced:

- at usage report: chargeable events for which, when occurring and there is usage, the current counts are closed and sent together with the charging data generated by the NF consumer towards the CHF in a Charging Data Request message. Counts indicating zero usage may be reported. New counts are started by the NF consumer.

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