**3GPP TSG-SA5 Meeting #148e *S5-233407rev1***

Electronic meeting, Online, 17-25 April 2023

**Source: MATRIXX Software**

**Title: pCR 28.203 Introduce** **message flows**

**Document for: Approval**

**Agenda Item: 7.4.1**

# 1 Decision/action requested

**This pCR is to introduce message flows.**

# 2 References

[1] 3GPP TR 32.847 "Study on Charging Aspects for Network Slicing Phase 2"

[2] 3GPP TS 28.203 "Charging management; Network Slice Admission Control charging in the 5G System (5GS); Stage 2".

# 3 Rationale

This pCR is to introduce message flows.

# 4 Detailed proposal

The following changes are proposed to be incorporated into TS 28.203 [2]:

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| **First change** |

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### 5.2.2 Message flows

#### 5.2.2.1 General

The flows in the present document specify the interaction between the NSACF and the CHF for as Network Slice Admission Control converged charging functionality, in different scenarios, based on 3GPP TS 23.501 [3] and 3GPP TS 23.502 [4] procedures and flows.

This interaction is based on Charging Data Request /Response specified in 3GPP TS 32.290 [x], exchanged between the NSACF embedding the CTF and the CHF. The following scenarios are supported:

- PEC;

- IEC;

- ECUR;

- SCUR.

As a general principle, the steps in the figures for the message flows below correspond to the steps of figures in 3GPP TS 23.502 [4], which is the reference. The present document specifies the charging specific extension part.

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| **Next change** |

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#### 5.2.2.2 Number of UEs per network slice charging from NSACF

##### 5.2.2.2.1 General

The subclause below describes registration management charging on Number of UEs per network slice availability check and update procedure.

##### 5.2.2.2.2 Number of UEs per network slice – IEC charging

The following figure 5.2.2.2.2-1 describes a Registration charging message flow in IEC charging, based on figure 4.2.11.2-1 of 3GPP TS 23.502 [4] description:



Figure 5.2.2.2.2-1: Number of UEs per S-NSSAI – IEC charging

Steps 1 to 3: per 3GPP TS 23.502 [4] Figure 4.2.11.2-1 Number of UEs per network slice availability check and update procedure.

3ch-a: For a particular S-NSSAI the "Nb of UEs threshold crossed upwards" or "Nb of UEs threshold crossed downwards" trigger is met.

3ch-b: The NSACF sends Charging Data Request [Event] to CHF with "Number of UEs".

3ch-c: The CHF creates a CDR for this "Number of UEs" for the S-NSSAI.

3ch-d: CHF provides response to NSACF.

Step 4: per 3GPP TS 23.502 [4] Figure 4.2.11.2-1 Number of UEs per network slice availability check and update procedure

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| **End of change** |