**3GPP TSG-SA5 Meeting #148e *S5-233378rev1***

Electronic meeting, Online, 17-25 April 2023

**Source: MATRIXX Software**

**Title: pCR 28.203 Introduce charging** **scenarios principles**

**Document for: Approval**

**Agenda Item: 7.4.1**

# 1 Decision/action requested

**This pCR is to Introduce charging scenarios principles.**

# 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 charging scenarios principles.

# 4 Detailed proposal

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

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| **First change** |

#  2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 32.240: "Telecommunication management; Charging management; Charging architecture and principles".

[3] 3GPP TS 23.501: "System Architecture for the 5G System (5GS); Stage 2".

[4] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[x] 3GPP TS 32.290: "Telecommunication management; Charging management; 5G system; Services, operations and procedures of charging using Service Based Interface (SBI)".

[y] 3GPP TS 32.291: "Telecommunication management; Charging management; 5G system; Charging service, stage 3".

[z] 3GPP TS 32.298: "Telecommunication management; Charging management; Charging Data Record (CDR) parameter description".

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| **Next change** |

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

3GPP 3rd Generation Partnership Project

5GS 5G System

CCS Converged Charging System

CHF CHarging Function

IEC Immediate Event Charging

NSACF Network Slice Admission Control Function

PDU Protocol Data Unit

PEC Post Event Charging

SCUR Session Charging with Unit Reservation

UE User Equipment

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| **Next change** |

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## 5.2 Network Slice Admission Control charging converged charging scenarios

### 5.2.1 Basic principles

#### 5.2.1.1 General

Network Slice Admission Control converged charging, may be performed by the NSACF interacting with the Charging Function (CHF) using Nchf specified in 3GPP TS 32.290 [x] and 3GPP TS 32.291 [y]. In order to provide the data required for the management activities outlined in 3GPP TS 32.240 [2], the NSACF shall be able to perform converged charging for each of the following:

- Charging information related to number of UEs per S-NSSAI.

- Charging information related to number of PDU Sessions per S-NSSAI.

The NSACF shall use the NSACF charging profile defined in clause X to determine whether converged charging is activated or not for number of UEs and number of PDU Sessions. The default NSACF charging profile is provided by Charging Characteristics applicable to NSACF described in Annex X.

The NSACF shall be able to perform converged charging by interacting with the CHF, for charging data related to number of UEs and number of PDU Sessions. The Charging Data Request and Charging Data Response are exchanged between the NSACF and the CHF, based on IEC, PEC, ECUR or SCUR scenarios as specified in TS 32.290 [x]. The Charging Data Request is issued by the NSACF towards the CHF when certain conditions (chargeable events) are met.

Converged charging uses centralized or decentralized unit determination and centralized rating scenarios for session based convergent charging specified in 3GPP TS 32.290 [x].

A detailed formal description of the converged charging parameters defined in the present document is to be found in 3GPP TS 32.291 [y].

A detailed formal description of the CDR parameters defined in the present document is to be found in 3GPP TS 32.298 [z].

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| **End of change** |