**3GPP TSG-SA5 Meeting #158 *S5-246991***

Orlando, USA, 18 - 22 November 2024

**Source: China Mobile**

**Title: Rel-19 pCR 28.851 Adding solution on volume-based charging for standalone IMS Data Channel**

**Document for: Approval**

**Agenda Item: 7.5.3**

# 1 Decision/action requested

***This is a pCR to add solution on volume-based charging for standalone IMS Data Channel in TR 28.851.***

# 2 References

[1] 3GPP TR 28.851: "Study on charging aspects of next generation real time communication services phase 2".

# 3 Rationale

This pCR proposes to add solution on volume-based charging for standalone IMS Data Channel in TR 28.851 [1].

# 4 Detailed proposal

The following changes are proposed to be incorporated into TR 28.851.

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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 23.501: "System Architecture for the 5G System (5GS); Stage 2".

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

[4] 3GPP TS 23.503: "Policy and charging control framework for the 5G System (5GS); Stage 2".

[5] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".

[6] 3GPP TS 22.011: "Service accessibility".

[7] 3GPP TS 22.156: "Mobile Metaverse Services".

[8] 3GPP TS 26.114: "IP Multimedia Subsystem (IMS); Multimedia Telephony; Media handling and interaction".

[9] 3GPP TR 23.700-77: "Study on system architecture for next generation real time communication services Phase 2".

[10] 3GPP TS 32.255: "Telecommunication management; Charging management; 5G Data connectivity domain charging; stage 2".

[11] 3GPP TS 32.260: "Telecommunication management; Charging management; IP Multimedia Subsystem (IMS) charging".

[12] 3GPP TS 32.275: "Telecommunication management; Charging management; MultiMedia Telephony (MMTel) charging".

[13] 3GPP TS 32.254: "Telecommunication management; Charging management; Exposure function northbound Application Program Interfaces (APIs) charging".

[x] 3GPP TS 29.513: "Policy and Charging Control signalling flows and QoS parameter mapping".

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| **Second change** |

#### 5.1.4.x Solution #2: Volume-based charging for standalone IMS Data Channel

5.1.4.x.1 General

Solution#2 addresses Key Issue #1a and #1b. It is based on IMS data channel volume-based charging specified in 3GPP TS 32.255 [10].

5.1.4.x.2 Description

If standalone data channel is used in a IMS session, one or more data channel SDP media descriptions may be included in the SDP when generating SDP offer in initial SIP INVITE request. When a session is initiated or modified the P-CSCF derives a Media-Component-Description AVP for Rx interface or a "MediaComponent" attribute for N5 interface from the SDP Parameters which specified in clause 7.2 of TS 29.513 [x]. These QoS related parameters, as well as the identifier of caller and callee, are supported by N7 interface. SMF can collect these charging information and report them to CHF, as described in clause 5.1.18 of TS 32.255 [10].

The IMS data channel volume-based charging specified in clause 5.1.18 of TS 32.255 [10] is applicable for volume-based charging for standalone IMS Data Channel.

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| **End of changes** |