**3GPP TSG-SA5 Meeting #157 *S5-245977***

Hyderabad, India, 14 - 18 October 2024

**Title: LS on LS response to 3GPP\_Reservation of Edge Resources and Correlation information for API volume-based charging**

**Response to: LS S5-243816 on LS response to 3GPP\_Reservation of Edge Resources and Correlation information for API volume-based charging from OPG Operator Platform API Group**

**Release: -**

**Work Item: -**

**Source:** **3GPP SA5**

**To:** **GSMA** **OPG Operator Platform API Group**

**Cc: GSMA OPG, 3GPP SA2, 3GPP SA6, 3GPP SA**

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**Attachments:** None.

# 1 Overall description

3GPP SA5 thanks GSMA OPAG for their LS response to 3GPP\_Reservation of Edge Resources and Correlation information for API volume-based charging. 3GPP SA5 has discussed the received feedback and would like to provide GSMA OPAG with the current status of their discussion.

1. Regarding the Edge Resource Reservation charging related requirement:

3GPP SA5 architecture reference for Edge Charging 3GPP TS 32.257 is 3GPP TS 23.558 "Architecture for enabling edge applications architecture", and the Edge enabling infrastructure resources charging related requirement included in GSMA "Southbound Interface Charging Function APIs" is currently not addressed by the specified charging solution. 3GPP SA5 is aware a high level mapping between EDGEAPP architecture and GSMA OPG reference architecture is provided by the 3GPP SA6 TR 23.958 "Edge Application Standards in 3GPP and Alignment with External Organizations" clause 6 "Alignment of EDGEAPP with GSMA OP". Before 3GPP SA5 could start investigation on the charging architecture and solution, we would like GSMA OPAG to evaluate whether this mapping could be valid in the context of the high level sequence diagram provided by the LS, considering 3GPP SA5 TS 28.538 Edge Computing Management (ECM) could be used for step 2-3 to reserve edge resource.

1. Regarding the Correlation information for API volume based charging related requirement:

Based on GSMA OPAG is considering the SCEF/NEF related architecture and services specified under 3GPP SA2 in 3GPP TS 23.502 "Technical Specification Group Services and System Aspects; Procedures for the 5G System (5GS); Stage 2", 3GPP SA5 would like to bring the following clarifications:

* 3GPP SA5 NEF charging available under 3GPP TS 32.254: "Telecommunication management; Charging management; Exposure function Northbound Application Program Interfaces (APIs) charging" is suitable for charging API invocation/Ack to the NEF. This NEF charging is specified in a generic way to cover any NEF exposed services therefore will remain applicable to future NEF services.
* 3GPP TS 32.254 also specifies SCEF charging, however only T8 transactions are covered, i.e. a limited set of exposed services is covered.
* NEF charging is specified in SBI architecture using converged charging system only, and SCEF charging is specified in Diameter based architecture only.
* 3GPP SA5 would like to inform GSMA OPAG that further charging evolution will be considered under SBI framework only, there is no plan to evolve in Diameter interface application for upcoming releases.
* Regarding the additional information to be included in the charging requests for the purpose of correlation between API invocations to the NEF and corresponding service(s) delivered within the Operator’s Network (e.g. SMF PDU session): the procedures to convey such information from the NEF to the appropriate Network Function(NF) would need to be specified by 3GPP SA2 on a per API service basis so this information can be available for transfer by the NEF and NF(s) to the charging system.

# 2 Actions

**To GSMA OPG Operator Platform API Group**

**ACTION:** 3GPP SA5 kindly requests GSMA OPG Operator Platform API Group to take the above information into account

# 3 Dates of next TSG SA WG5 meetings

SA5#158 18 November - 22 November 2024 Orlando, USA

SA5#159 17 February - 21 February 2025 Sophia-Antipolis, France