**3GPP TSG-SA5 Meeting #157 *S5-245894***

Hyderabad, India, 14 - 18 October 2024

**Source: Ericsson**

**Title: Solution for topic 1 reusing NEF charging**

**Document for: Approval**

**Agenda Item: 7.5.2**

# 1 Decision/action requested

***The group is asked to discuss and approve the proposal.***

# 2 References

[1] 3GPP TS 28.849 Study on charging aspects of Common API Framework for Northbound APIs (CAPIF) phase 2

[2] 3GPP TS 32.254 Exposure function Northbound Application Program Interfaces (APIs) charging

# 3 Rationale

Charging for exposure northbound APIs is currently specified in TS 32.254 [2], so it is suggested to reuse this in CAPIF.

# 4 Detailed proposal

This document proposes the following changes in TR 28.849 [1].

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| **First change** |

#### 6.1.5.x Use of Exposure function Northbound Application Program Interfaces (APIs) charging

6.1.5.x.1 General description

This solution covers key issues #1.1 and #1.2, and requirements REQ-3GPPCH-APIM-01 and REQ-3GPPCH-IVKM-01. It reuses the current exposure function northbound APIs charging, TS 32.254 [3], with some adaptations and extensions.

6.1.5.x.2 Architecture description

For architecture see TS 32.254 [3] clause 4.4 where CAPIF Core Function (CCF) is an alternative to NEF.

6.1.5.x.3 Procedures description

For flows see TS 32.254 [3] clause 5.4.2 where CCF is an alternative to NEF.

For the API Provider charging the following is required:

- API Provider would be considered the tenant, i.e. the API Provider Id would be stored in the Tenant Identifier

- New triggers for service API publish, unpublish, retrieve, update

- The API Target Network Function would be CCF

For the API Invoker charging the following is required:

- API Invoker would be considered the tenant, i.e. the API Invoker id would be stored in the Tenant Identifier

- New triggers for onboarding and offboarding

- The API Target Network Function would be CCF

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| **End of change** |