**3GPP TSG-SA5 Meeting #162 *S5-253779d1***

**Stor-Göteborg, Sweden, 25th Aug 2025 - 29th Aug 2025**

**Source: Nokia**

**Title: Revised WID Converged Charging Aspects of CAPIF phase 3**

**Document for: Approval**

**Agenda Item: 7.2**

**TSG SA Meeting #108** **SP-250509**

**10 - 13 June, 2025, Prague, Czech Republic**

**Source:** **SA WG5**

**Title:** **Converged Charging Aspects of CAPIF phase 3**

**Document for:** **Approval**

**Agenda Item:** **6.1.5**

**3GPP TSG-SA5 Meeting #161** ***S5-253100***

**Fukuoka, Japan, 19 – 23 May 2025**

**Source: Nokia**

**Title: New WID on Charging aspects of CAPIF Phase 3**

**Document for: Approval**

**Agenda Item: 7.2**

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

Title: Converged Charging aspects of CAPIF Phase 3

Acronym: CAPIF\_Ph3\_con-CH

Unique identifier: 1080019

Potential target Release: Rel-19

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  |  |  | X |  |
| No | X | X | X |  |  |
| Don't know |  |  |  |  | X |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a …

|  |  |
| --- | --- |
|  | Study  |
|  | Normative – Stage 1 |
| X | Normative – Stage 2 |
| X | Normative – Stage 3 |
|  | Normative – Other\* |

**\* Other = e.g. testing**

## 2.2 Parent Work Item

|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| FS\_CAPIF\_Ph2\_CH | SA5 | 1040015 | Study on charging aspects of Common API Framework for Northbound APIs (CAPIF) phase 2 |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work /Study Items (if any) |
| Unique ID | Title | Nature of relationship |
| 1060040 | Common API Framework (CAPIF) Phase 3 | SA6 Rel-19 Work Item |

**Dependency on non-3GPP (draft) specification:** None.

# 3 Justification

In Rel-19, there is normative work from SA6 which can be used to enhance the charging capabilities.

Therefore, it’s proposed to enhance the following functionalities within the Charging Management scope:

* New CAPIF Events for onboarded API invoker are introduced (e.g. API Invoker Status)
* Enhancing the service API discover mechanism to enable service API level instantiation where CAPIF's AMF will interact with the OAM system specified by SA5 for such service API level or AEF level instantiation

# 4 Objective

The objective of the work item is to specify the following charging principles, procedures, and potential enhancements to charging information for CAPIF, based on solutions available from CAPIF\_Ph3 WID:

**WT-1:** CAPIF Converged Charging support of new CAPIF Events;

**WT-2:** CAPIF Converged Charging of auditing and provider domain API;

## TU estimates and dependencies

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Work Task ID** | **TU Estimate****(Study)** | **TU Estimate****(Normative)** | **RAN Dependency****(Yes/No/Maybe)**  | **SA Dependency****(Yes/No/Maybe)** | **Non-3GPP Dependency** |
| WT-1 |  | 0.5 | No | No | No |
| WT-2 |  | 0.5 | No | No | No |

**Total TU estimates for the study phase: 0**

**Total TU estimates for the normative phase: 1**

**Total TU estimates: 1**

# 5 Expected Output and Time scale

|  |
| --- |
| New specifications {One line per specification. Create/delete lines as needed} |
| Type  | TS/TR number | Title | For info at TSG#  | For approval at TSG# | Rapporteur |
|  |  |  |  |  |  |

|  |
| --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} |
| TS/TR No. | Description of change  | Target completion plenary# | Remarks |
| 32.254 | Update Northbound API converged charging to support charging for CAPIF | TSG#109(Sep. 2025) |  |
|  |  |  |  |
|  |  |  |  |

# 6 Work item Rapporteur(s)

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

None

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Nokia |
| China Telecom |
| China Mobile |
| Verizon |