**3GPP TSG- Meeting # *C3-253460***

**, , - (revision of *C3-253185)***

**Source: Nokia**

**Title: Revised WID on Common API Framework (CAPIF) Phase 3**

**Document for: Approval**

**Agenda Item: 19.3**

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: Common API Framework (CAPIF) Phase 3

Acronym: CAPIF\_Ph3

Unique identifier: 1060026

Potential target Release: Rel-19

# 1 Impacts

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

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a …

|  |  |
| --- | --- |
|  | Study  |
|  | Normative – Stage 1 |
|  | 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) |
| CAPIF\_Ph3 | SA6 | 1050035 | CAPIF Phase 3 |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work /Study Items (if any) |
| Unique ID | Title | Nature of relationship |
| 1020025 | Study on security aspects of CAPIF Phase 3 | Security aspects of CAPIF\_Ph3 |
| 960012 | Application enablement aspects for subscriber-aware northbound API access (SNAAPP) | Addressing left-overs of SNAAPP and further enhancements. |
| 990048 | Security aspects of SNAPP (SNAAPPY) | Security procedures to support RNAA which will be considered as baseline for the study. |
| 1040015 | Study on Charging Aspects of CAPIF | Charging aspects of CAPIF |
| 1020022 | Enhanced OAM for management exposure to external consumers (MExpo) | SA5 gap analysis of CAPIF to support exposure of management services. |

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

# 3 Justification

The stage-2 work of CAPIF\_Ph3 started at SA#102 with the SA6 new study item on CAPIF Phase 3 (FS\_CAPIF\_Ph3). The key issues, solutions, and conclusions of the SA6 study are captured in TR 23.700-22. The conclusions specified in TR 23.700-22 will be the base for the normative stage-2 work in SA6.

In addition, a new SA6 work item "Common API Framework (CAPIF) Phase 3" was approved by TSG at SA#105, see SP-241381.

Considering the above, impacts on protocols, services and interfaces under CT WGs' responsibilities are foreseen and the related work in CT WGs should be carried out within Rel-19.

Based on normative progress of stage 2, this WID will be updated as needed.

# 4 Objective

The objective of this work item is to specify the Common API Framework (CAPIF) Phase 3. The stage-3 work shall be started after the applicable normative stage-2 requirements are available.

The stage-3 aspects will include the following (CT WG impact areas will be identified based on the progress in the normative stage-2 work):

**CT3:**

For CT3, based on Rel-19 normative stage-2 work expected to be developed in 3GPP TS 23.222, the expected work includes:

1. CAPIF protocol enhancements for alignment of updated CAPIF stage 2 requirements (e.g. new IEs of new or existing CAPIF APIs).
	* 1. Impacts to the CAPIF\_Publish\_Service\_API, CAPIF\_Discover\_Service\_API and CAPIF\_Security\_API to support service operation level and resource level access control to service APIs.
		2. Impacts to the CAPIF\_Security\_API to support more granular information on the API Invoker in the context of RNAA, the purpose of data processing and nested API invocation.
		3. Enhancements to enable instantiation for service API/AEF.
		4. Enhancements to the CAPIF\_Events\_API CAPIF event notifications and onboarding procedures related to API invokers.
		5. Impacts to the CAPIF\_API\_Invoker\_Management\_API to support enhancement of onboarding criteria information and error handling.
		6. Define new CAPIF\_Open\_Discover\_Service\_API to enable the requestor to discover service API information about the available set of APIs offered by CCF before onboarding.

# 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 |
| 29.222 | See section 4 on objective | TSG CT#109 (September 2025) | CT3 |

# 6 Work item Rapporteur(s)

Paul, Bhaskar, Nokia, bhaskar.paul@nokia.com

# 7 Work item leadership

CT3

# 8 Aspects that involve other WGs

SA3 on aspects related to security and privacy for CAPIF and API exposure.

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Nokia |
| Ericsson |
| Verizon |
| Huawei |
| ZTE |
| China Telecom |
| NTT DOCOMO |
| InterDigital |
| AT&T |
| China Mobile |