**3GPP TSG-CT WG3 Meeting #110eC3-203481**

**E-Meeting, 02nd – 11th June 2020** *(revision of C3-203309)*

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.222** | **CR** | **0145** | **rev** | **1** | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Align interface names | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eCAPIF | | | | |  | ***Date:*** | | | 2020-05-26 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) Rel-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Interface names (CAPIF-3e/4e/5e) are not updated in various procedures. The procedures need to be corrected to include CAPIF-3e/4e/5e interfaces. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Correct the procedures to align with CAPIF-3e/4e/5e interfaces. | | | | | | | | |
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| ***Consequences if not approved:*** | | Procedures are not clear in the context of CAPIF-3e/4e/5e interfaces. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.3.3, 5.4.1.1, 5.6.1.1, 5.7, 5.8.1.1, 5.9.1.1, 5.10.1.1, 6.2.1.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | This CR does not require a version update of any OpenAPI specification file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\* 1st Change \*\*\*

### 4.3.3 API exposing function

The API exposing function (AEF) is the provider of the Service APIs and is also the service communication entry point of the Service API to the API invokers using CAPIF-2/CAPIF-2e reference point as defined in 3GPP TS 23.222 [2]. The API exposing function consists of capabilities such as authenticating the API invoker, validating the authorization provided by the CAPIF core function and logging the Service API invocations at the CAPIF core function using CAPIF-3 and CAPIF-3e reference points as defined in 3GPP TS 23.222 [2].

According to the distributed deployment scenarios specified in 3GPP TS 23.222 [2], it is possible that the CAPIF can be deployed by splitting the functionality of the API exposing function among multiple API exposing function entities, of which one acts as the entry point. The source API exposing function communicates with the destination API exposing function over CAPIF-7/7e reference points.

\*\*\* 2nd Change \*\*\*

#### 5.4.1.1 Overview

The CAPIF events APIs, as defined in 3GPP TS 23.222 [2], allow an API invoker via CAPIF-1 reference point, API exposure function via CAPIF-3/3e reference points, API publishing function via CAPIF-4/4e reference points and API management function via CAPIF-5/5e reference points to subscribe to and unsubscribe from CAPIF events and to receive notifications from CAPIF core function.

NOTE: The functional elements listed above are referred to as Subscriber in the service operations described in the subclauses below.

\*\*\* 3rd Change \*\*\*

#### 5.6.1.1 Overview

The CAPIF security APIs, as defined in 3GPP TS 23.222 [2], allow:

- API invokers via CAPIF-1/1e reference points to (re-)negotiate the service security method and obtain authorization for invoking service APIs; and

- API exposing function via CAPIF-3/3e reference points to obtain authentication information of the API invoker for authentication of the API invoker and revoke the authorization for service APIs.

\*\*\* 4th Change \*\*\*

## 5.7 CAPIF\_Monitoring\_API

The CAPIF monitoring API as defined in 3GPP TS 23.222 [2], allow the API management function via CAPIF-5/5e reference points to monitor service API invocations and receive such monitoring events from the CAPIF core function.

The CAPIF\_Monitoring\_API shall use the CAPIF\_Events\_API as described in subclause 8.3 by setting the CAPIFEvent to one of the events as described in subclause 8.3.4.3.3.

\*\*\* 5th Change \*\*\*

#### 5.8.1.1 Overview

The Logging API invocations APIs, as defined in 3GPP TS 23.222 [2], allow API exposing functions via CAPIF-3/3e reference points to log the information related to service API invocations on the CAPIF core function.

NOTE: Functions from 3rd party API provider domain can also access this API with sufficient permissions.

\*\*\* 6th Change \*\*\*

#### 5.9.1.1 Overview

The Auditing API, as defined in 3GPP TS 23.222 [2], allows API management functions via CAPIF-5/5e reference points to query the log information stored on the CAPIF core function.

NOTE: Functions from 3rd party API provider domain can also access this API with sufficient permissions.

\*\*\* 7th Change \*\*\*

#### 5.10.1.1 Overview

The CAPIF access control policy APIs allow API exposing function via CAPIF-3/3e reference points to obtain the service API access policy from the CAPIF core function.

NOTE: Functions from 3rd party API provider domain can also access this API with sufficient permissions.

\*\*\* 8th Change \*\*\*

#### 6.2.1.1 Overview

The AEF securityAPI, allows an API invokers via CAPIF-2/2e reference points to request API exposing function to ensure that authentication parameters necessary for authentication of the API invoker are available with the API exposing function. If the necessary authentication parameters are not available, the API exposing function fetches necessary authentication parameters from CAPIF core function to authenticate the API invoker.

The AEF security API, also allows the CAPIF core function via CAPIF-3/3e reference points to request API exposing function to revoke the authorization of service APIs for an API invoker.

\*\*\* End of Change \*\*\*