**3GPP TSG-CT WG3 Meeting #109eC3-202398**

**E-Meeting, 16th – 24th April 2020** (Revision of C3-202217)

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **29.222** | **CR** | **0131** | **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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | API Provider management API attribute name optimization |
|  |  |
| ***Source to WG:*** | Samsung |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | eCAPIF |  | ***Date:*** | 2020-04-14 |
|  |  |  |  |  |
| ***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 canbe 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:*** | As per feedback from CT3#108e meeting, the CAPIF\_API\_Provider\_Management API’s attribute names need to be optimized. Additionally, the API version of resoure definition of API provider management API needs correction. |
|  |  |
| ***Summary of change:*** | 1. Optimize the attribute names of CAPIF\_API\_Provider\_Management APIs
2. Correct API version in resource structure of CAPIF\_API\_Provider\_Management API
3. Replace “v1” to “apiVersion” through out the document.
 |
|  |  |
| ***Consequences if not approved:*** | Attributes names and API version in resource structure not align to conventions of service based interfaces. |
|  |  |
| ***Clauses affected:*** | 8.9.2.1, 8.9.2.2.2, 8.9.2.3.2, 8.9.4.2.2, 8.9.4.2.3, 8.9.4.2.4, A.11, 8.1.2.1, 8.1.2.2.2, 8.2.2.1, 8.2.2.2.2, 8.2.2.3.2, 8.3.2.1, 8.3.2.2.2, 8.3.2.3.2, 8.4.2.1, 8.4.2.2.2, 8.4.2.3.2, 8.5.2.1, 8.5.2.2.2, 8.5.2.3.2, 8.5.2.3.4.1, 8.6.2.1, 8.6.2.2.2, 8.7.2.1, 8.7.2.2.2, 8.8.2.1, 8.8.2.2.2, 9.1.2a.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 introduces backward compatible changes to CAPIF\_API\_Provider\_Management\_API OpenAPI. |
|  |  |
| ***This CR's revision history:*** |  |

1st change

#### 8.9.2.1 Overview



Figure 8.9.2.1-1: Resource URI structure of the CAPIF\_API\_Provider\_Management\_API

Table 8.9.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.9.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| All API Provider Domains Registrations | {apiRoot}/api-provider-management/{apiVersion}/registrations | POST | Registers new API provider domain by creating API provider domain with API provider domain functions profiles. |
| Individual API Provider Domain Registration | {apiRoot}/api-provider-management/{apiVersion}/registrations/{registrationId} | PUT | Updates an individual API provider domain identified by {registrationId} |
| DELETE | Deregisters API provider domain by deleting API provider domain and functions, identified by {registrationId}. |

2nd change

##### 8.9.2.2.2 Resource Definition

Resource URI: **{apiRoot}/api-provider-management/{apiVersion}/registrations**

This resource shall support the resource URI variables defined in table 8.9.2.2.2-1.

Table 8.9.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |

3rd change

##### 8.9.2.3.2 Resource Definition

Resource URI: **{apiRoot}/api-provider-management/{apiVersion}/registrations/{registrationId}**

This resource shall support the resource URI variables defined in table 8.9.2.3.2-1.

Table 8.9.2.3.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |
| registrationId | String identifying an individual registered API Provider domain resource |

4th change

##### 8.9.4.2.2 Type: APIProviderEnrolmentDetails

Table 8.9.4.2.2-1: Definition of type APIProviderEnrolmentDetails

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| apiProvDomId | string | O | 0..1 | API provider domain ID assigned by the CAPIF core function to the API management function while registering the API provider domain. Shall not be present in the HTTP POST request from the API management function to the CAPIF core function, to on-board itself. Shall be present in all other HTTP requests and responses. |  |
| regSec | string | M | 1 | Security information necessary for the CAPIF core function to validate the registration of the API provider domain. Shall be present in HTTP POST request from API management function to CAPIF core function for API provider domain registration. |  |
| apiProvFuncs | array(APIProviderFunctionDetails) | O | 1..N | A list of individual API provider domain functions details. When included by the API management function in the HTTP request message, it lists the API provider domain functions that the API management function intends to register/update in registration or update registration procedure. When included by the CAPIF core function in the HTTP response message, it lists the API domain functions details that are registered or updated successfully.  |  |
| apiProvDomInfo | string | O | 0..1 | Generic information related to the API provider domain such as details of the API provider applications.  |  |
| suppFeat | SupportedFeatures | O | 0..1 | Used to negotiate the supported optional features of the API as described in subclause 7.8.This attribute shall be provided in the HTTP POST request and in the response of successful resource creation. |  |
| failReason | string | O | 0..1 | Registration or update specific failure information of failed API provider domain function registrations.Shall be present in the HTTP response body if atleast one of the API provider domain function registration or update registration fails. |  |

5th change

##### 8.9.4.2.3 Type: APIProviderFunctionDetails

Table 8.9.4.2.3-1: Definition of type APIProviderFunctionDetails

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| apiProvFuncId | string | O | 0..1 | API provider domain functionID assigned by the CAPIF core function to the API provider domain function while registering/updating the API provider domain. Shall not be present in the HTTP POST request from the API management function to the CAPIF core function, to register itself. Shall be present in all other HTTP requests and responses. |  |
| regnInf | RegistrationInformation | M | 1 | Information necessary for the CAPIF core function to register the API provider domain function. This information shall be present in HTTP POST/PUT request from API management function to CAPIF core function for API provider domain registration. In the HTTP response message from CAPIF core function, shall include the updated registration information for API provider domain function. |  |
| apiProvFuncRole | ApiProviderFuncRole | M | 1 | Role of API provider domain function.The role shall be present in the HTTP POST/PUT request that the API management function intends to register/update the API provider domain function as. CAPIF core function shall register the role of API provider domain function as per the request.  |  |
| apiProvFuncInf | string | O | 0..1 | Generic information related to the API provider domain function such as details of the API provider applications.  |  |

6th change

##### 8.9.4.2.4 Type: RegistrationInformation

Table 8.9.4.2.4-1: Definition of type RegistrationInformation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| apiProvPubKey | string | M | 1 | Public Key of API Provider domain function. |  |
| apiProvCert | string | O | 0..1 | API provider domain function’s generic client certificate |  |

7th change

## A.11 CAPIF\_API\_Provider\_Management\_API

openapi: 3.0.0

info:

 title: CAPIF\_API\_Provider\_Management\_API

 description: |

 API for API provider domain functions management.

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 version: "1.0.0.alpha-1"

externalDocs:

 description: 3GPP TS 29.222 V16.2.0 Common API Framework for 3GPP Northbound APIs

 url: http://www.3gpp.org/ftp/Specs/archive/29\_series/29.222/

servers:

 - url: '{apiRoot}/api-provider-management/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in subclause 7.5 of 3GPP TS 29.222

paths:

 /registrations:

 post:

 description: Registers a new API Provider domain with API provider domain functions profiles.

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/APIProviderEnrolmentDetails'

 responses:

 '201':

 description: API provider domain registered successfully

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/APIProviderEnrolmentDetails'

 headers:

 Location:

 description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/api-provider-management/v1/registrations/{registrationId}'

 required: true

 schema:

 type: string

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /registrations/{registrationId}:

 delete:

 description: Deregisters API provider domain by deleting API provider domain and functions.

 parameters:

 - name: registrationId

 in: path

 description: String identifying an registered API provider domain resource

 required: true

 schema:

 type: string

 responses:

 '204':

 description: The API provider domain matching registrationId is deleted.

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 put:

 description: Updates an API provider domain's registration details.

 parameters:

 - name: registrationId

 in: path

 description: String identifying an registered API provider domain resource

 required: true

 schema:

 type: string

 requestBody:

 description: representation of the API provider domain registration details to be updated in CAPIF core function

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/APIProviderEnrolmentDetails'

 responses:

 '200':

 description: API provider domain registration details updated successfully

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/APIProviderEnrolmentDetails'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

 schemas:

 APIProviderEnrolmentDetails:

 type: object

 properties:

 apiProvDomId:

 type: string

 description: API provider domain ID assigned by the CAPIF core function to the API management function while registering the API provider domain. Shall not be present in the HTTP POST request from the API Management function to the CAPIF core function, to on-board itself. Shall be present in all other HTTP requests and responses.

 readOnly: true

 regSec:

 type: string

 description: Security information necessary for the CAPIF core function to validate the registration of the API provider domain. Shall be present in HTTP POST request from API management function to CAPIF core function for API provider domain registration.

 apiProvFuncs:

 type: array

 items:

 $ref: '#/components/schemas/APIProviderFunctionDetails'

 minItems: 1

 description: A list of individual API provider domain functions details. When included by the API management function in the HTTP request message, it lists the API provider domain functions that the API management function intends to register/update in registration or update registration procedure. When included by the CAPIF core function in the HTTP response message, it lists the API domain functions details that are registered or updated successfully.

 apiProvDomInfo:

 type: string

 description: Generic information related to the API provider domain such as details of the API provider applications.

 suppFeat:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 failReason:

 type: string

 description: Registration or update specific failure information of failed API provider domain function registrations.Shall be present in the HTTP response body if atleast one of the API provider domain function registration or update registration fails.

 required:

 - regnSec

 APIProviderFunctionDetails:

 type: object

 properties:

 apiProvFuncId:

 type: string

 description: API provider domain functionID assigned by the CAPIF core function to the API provider domain function while registering/updating the API provider domain. Shall not be present in the HTTP POST request from the API management function to the CAPIF core function, to register itself. Shall be present in all other HTTP requests and responses.

 regnInf:

 $ref: '#/components/schemas/RegistrationInformation'

 apiProvFuncRole:

 $ref: '#/components/schemas/ApiProviderFuncRole'

 apiProvFuncInf:

 type: string

 description: Generic information related to the API provider domain function such as details of the API provider applications.

 required:

 - regnInf

 - apiProvFuncRole

 RegistrationInformation:

 type: object

 properties:

 apiProvPubKey:

 type: string

 description: Public Key of API Provider domain function.

 apiProvCert:

 type: string

 description: API provider domain function's client certificate

 required:

 - apiProvPubKey

 ApiProviderFuncRole:

 anyOf:

 - type: string

 enum:

 - AEF

 - APF

 - AMF

 - type: string

 description: >

 This string provides forward-compatiblity with future extensions to the enumeration but is not used to encode content defined in the present version of this API.

 description: >

 Possible values are

 - AEF: API provider function is API Exposing Function.

 - APF: API provider function is API Publishing Function.

 - AMF: API Provider function is API Management Function.

8th change

#### 8.1.2.1 Overview



Figure 8.1.2.1-1: Resource URI structure of the CAPIF\_Discover\_Service\_API

Table 8.1.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.1.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| All published service APIs (Store) | {apiRoot}/service-apis/{apiVersion}/allServiceApis | GET | Discover published service APIs and retrieve a collection of APIs according to certain filter criteria. |

9th change

##### 8.1.2.2.2 Resource Definition

Resource URI: **{apiRoot}/service-apis/{apiVersion}/allServiceApis**

This resource shall support the resource URI variables defined in table 8.1.2.2.2-1.

Table 8.1.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |

10th change

#### 8.2.2.1 Overview



Figure 8.2.2.1-1: Resource URI structure of the CAPIF\_Publish\_Service\_API

Table 8.2.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.2.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| APF published APIs  | {apiRoot}/published-apis/{apiVersion}/{apfId}/service-apis | POST | Publish a new API |
| GET | Retrieve all published service APIs |
| Individual APF published API | {apiRoot}/published-apis /{apiVersion}/{apfId}/service-apis/{serviceApiId} | GET | Retrieve a published service API |
| PUT | Update a published service API |
| DELETE | Unpublish a published service API |

11th change

##### 8.2.2.2.2 Resource Definition

Resource URI: **{apiRoot}/published-apis/{apiVersion}/{apfId}/service-apis**

This resource shall support the resource URI variables defined in table 8.2.2.2.2-1.

Table 8.2.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |
| apfId | String identifying the API publishing function; for CAPIF interconnection case, this string also identifies the CCF which is publishing the service API. |

12th change

##### 8.2.2.3.2 Resource Definition

Resource URI: **{apiRoot}/published-apis/{apiVersion}/{apfId}/service-apis/{serviceApiId}**

This resource shall support the resource URI variables defined in table 8.2.2.3.2-1.

Table 8.2.2.3.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |
| apfId | String identifying the API publishing function |
| serviceApiId | String identifying an individual published service API |

13th change

#### 8.3.2.1 Overview



Figure 8.3.2.1-1: Resource URI structure of the CAPIF\_Events\_API

Table 8.3.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.3.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| CAPIF Events Subscriptions | {apiRoot}/capif-events/{apiVersion}/{subscriberId}/subscriptions | POST | Creates a new individual CAPIF Event Subscription |
| Individual CAPIF Events Subscription | {apiRoot}/capif-events/{apiVersion}/{subscriberId}/subscriptions/{subscriptionId} | DELETE | Deletes an individual CAPIF Event Subscription identified by the subscriptionId |

14th change

##### 8.3.2.2.2 Resource Definition

Resource URI: **{apiRoot}/capif-events/{apiVersion}/{subscriberId}/subscriptions**

This resource shall support the resource URI variables defined in table 8.3.2.2.2-1.

Table 8.3.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |
| subscriberId | ID of the Subscriber |

15th change

##### 8.3.2.3.2 Resource Definition

Resource URI: **{apiRoot}/capif-events/{apiVersion}/{subscriberId}/subscriptions/{subscriptionId}**

This resource shall support the resource URI variables defined in table 8.3.2.3.2-1.

Table 8.3.2.3.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |
| subscriberId | ID of the Subscriber |
| subscriptionId | String identifying an individual Events Subscription |

16th change

#### 8.4.2.1 Overview



Figure 8.4.2.1-1: Resource URI structure of the CAPIF\_API\_Invoker\_Management\_API

Table 8.4.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.4.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| On-boarded API Invokers | {apiRoot}/api-invoker-management/{apiVersion}/onboardedInvokers | POST | On-boards a new API invoker by creating a API invoker profile |
| Individual On-boarded API Invoker | {apiRoot}/api-invoker-management/{apiVersion}/onboardedInvokers/{onboardingId} | DELETE | Off-boards an individual API invoker by deleting the API invoker profile identified by {onboardingId} |
| PUT | Updates the API invoker details of an individual API invoker identified by the {onboardingId} |

17th change

##### 8.4.2.2.2 Resource Definition

Resource URI: **{apiRoot}/api-invoker-management/{apiVersion}/onboardedInvokers**

This resource shall support the resource URI variables defined in table 8.4.2.2.2-1.

Table 8.4.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |

18th change

##### 8.4.2.3.2 Resource Definition

Resource URI: **{apiRoot}/api-invoker-management/{apiVersion}/onboardedInvokers/{onboardingId}**

This resource shall support the resource URI variables defined in table 8.4.2.3.2-1.

Table 8.4.2.3.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |
| onboardingId | String identifying an individual on-boarded API invoker resource |

19th change

#### 8.5.2.1 Overview



Figure 8.5.2.1-1: Resource URI structure of the CAPIF\_Security\_API

Table 8.5.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.5.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Trusted API invokers | {apiRoot}/capif-security/{apiVersion}/trustedInvokers | n/a |  |
| Individual trusted API invoker | {apiRoot}/capif-security/{apiVersion}/trustedInvokers/{apiInvokerId} | GET | Retrieve authentication information of an API invoker |
| PUT | Create a security context for individual API invoker |
| DELETE | Revoke the authorization of the API invoker |
| {apiRoot}/trustedInvokers/{apiVersion}/{apiInvokerId}/update | update (POST) | Update the security context (e.g. re-negotiate the security methods). |
| {apiRoot}/trustedInvokers/{apiVersion}/{apiInvokerId}/delete | delete (POST) | Revoke the authorization of the API invoker for some APIs |
| {apiRoot}/capif-security/{apiVersion}/securities/{securityId}/token | token (POST) | Obtain the OAuth 2.0 authorization information |

20th change

##### 8.5.2.2.2 Resource Definition

Resource URI: **{apiRoot}/capif-security/{apiVersion}/trustedInvokers**

This resource shall support the resource URI variables defined in table 8.5.2.2.2-1.

Table 8.5.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |

21st change

##### 8.5.2.3.2 Resource Definition

Resource URI: **{apiRoot}/capif-security/{apiVersion}/trustedInvokers/{apiInvokerId}**

This resource shall support the resource URI variables defined in table 8.5.2.3.2-1.

Table 8.5.2.3.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |
| apiInvokerId | String identifying an individual API invoker |

22nd change

###### 8.5.2.3.4.1 Overview

Table 8.5.2.3.4.1-1: Custom operations

|  |  |  |
| --- | --- | --- |
| Custom operation URI | Mapped HTTP method | Description |
| {apiRoot}/capif-security/{apiVersion}/securities/{securityId}/update | POST | Update the security instance (e.g. re-negotiate the security methods). |
| {apiRoot}/capif-security/{apiVersion}/securities/{securityId}/delete | POST | Revoke the authorization of the API invoker for some APIs |

23rd change

#### 8.6.2.1 Overview

This resource is created by the CAPIF administrator on the CAPIF core function.

NOTE: The details of the mechanisms used to create the Access Control Policy List resource on the CAPIF core function is out of the scope of the present document.



Figure 8.6.2.1-1: Resource URI structure of the CAPIF\_Access\_Control\_Policy\_API

Table 8.6.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.6.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Access Control Policy List | {apiRoot}/access-control-policy/{apiVersion}/accessControlPolicyList/{serviceApiId} | GET | Retrieves the access control policy list for a published service API. |

24th change

##### 8.6.2.2.2 Resource Definition

Resource URI: **{apiRoot}/access-control-policy/{apiVersion}/accessControlPolicyList/{serviceApiId}**

This resource shall support the resource URI variables defined in table 8.6.2.2.2-1.

Table 8.6.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |
| serviceApiId | String identifying an individual published service API |

25th change

#### 8.7.2.1 Overview



Figure 8.7.2.1-1: Resource URI structure of the CAPIF\_Logging\_API\_Invocation\_API

Table 8.7.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.7.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Logs  | {apiRoot}/api-invocation-logs/{apiVersion}/{aefId}/logs | POST | Creates a new log entry for service API invocations |
| Individual log | {apiRoot}/api-invocation-logs/{apiVersion}/{aefId}/logs/{logId} | n/a | Individual log entry |

26th change

##### 8.7.2.2.2 Resource Definition

Resource URI: **{apiRoot}/api-invocation-logs/{apiVersion}/{aefId}/logs**

This resource shall support the resource URI variables defined in table 8.7.2.2.2-1.

Table 8.7.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |
| aefId | Identity of the API exposing function |

27th change

#### 8.8.2.1 Overview



Figure 8.8.2.1-1: Resource URI structure of the CAPIF\_Auditing\_API

Table 8.8.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.8.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| All service API invocation logs (Store) | {apiRoot}/logs/{apiVersion}/apiInvocationLogs | GET | Query and retrieve service API invocation logs stored on the CAPIF core function |

28th change

##### 8.8.2.2.2 Resource Definition

Resource URI: **{apiRoot}/logs/{apiVersion}/apiInvocationLogs**

This resource shall support the resource URI variables defined in table 8.8.2.2.2-1.

Table 8.8.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 7.5 |
| apiVersion | See clause 7.5 |

29th change

#### 9.1.2a.1 Overview

Custom operations used for this API are summarized in table 9.1.2a.1-1. "{apiRoot}" and “{apiVersion}” are set as described in clause 7.5.

Table 9.1.2a.1-1: Custom operations without associated resources

|  |  |  |
| --- | --- | --- |
| Custom operation URI | Mapped HTTP method | Description |
| {apiRoot}/aef-security/{apiVersion}/check-authentication | POST | Check authentication request. |
| {apiRoot}/aef-security/{apiVersion}/revoke-authorization | POST | Revoke authorization for service APIs. |

End of changes