**3GPP TSG-CT WG3 Meeting #120-eC3-221114**

**E-Meeting, 17th – 25th February 2022**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **29.222** | **CR** | **0225** | **rev** | **-** | **Current version:** | **17.3.0** |  |
|  |
| *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:***  | Support PATCH for the update of an On-boarded API resource |
|  |  |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Huawei |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | NBI17 |  | ***Date:*** | 2021-02-10 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-17 |
|  | *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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | The CAPIF\_API\_Invoker\_Management\_API currently only allows the update of an Individual On-boarded API Invoker resource via a complete resource replacement using an HTTP PUT method. As it is the case for other T8 APIs, enabling the update of an Individual On-boarded API Invoker resource via a partial modification using HTTP PATCH method should also be enabled. |
|  |  |
| ***Summary of change:*** | This CR proposes to:* Define the HTTP PATCH method on an Individual On-boarded API Invoker resource in order to enable a partial update of the resource.
 |
|  |  |
| ***Consequences if not approved:*** | * Usage of HTTP PATCH for modifying an Individual On-boarded API Invoker resource is not supported.
 |
|  |  |
| ***Clauses affected:*** | 5.5.2.5.2, 8.4.2.1, 8.4.2.3.3.2a, 8.4.4.1, 8.4.4.2.x, 8.4.6, A.5 |
|  |  |
|  | **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 backwards compatible new features to the OpenAPI description of the CAPIF\_API\_Invoker\_Management\_API API. |
|  |  |
| ***This CR's revision history:*** |  |

\* \* \* Start of changes \* \* \* \*

##### 5.5.2.5.2 API invoker updating its details on CAPIF using Update\_API\_Invoker\_Details service operation

To update the API invoker’s profile details on the CAPIF core function, the API invoker shall send a HTTP PUT message to the CAPIF core function to its resource representation, requesting to replace all properties in the existing resource, addressed by the URI received in the response to the request that has created the API invoker profile resource. The properties "apiInvokerId” and “onboardingInformation” shall remain unchanged from the previously provided values. The body of the HTTP PUT message shall include API invoker identity information, API invoker details that need to be updated and a Notification Destination URI for update notification as specified in subclause 8.4.2.3.3.2. API invoker details may include API invoker information and API List. Otherwise, if the "PatchUpdate" feature defined in subclause 8.4.6 is supported, the consumer (e.g. API invoker function) may send an HTTP PATCH request message to the concerned service API resource URI in the CAPIF core function. The body of the HTTP PATCH request message shall include the requested modifications as specified in subclause 8.4.2.3.3.2a.

Upon receiving the above described HTTP PUT or PATCH request message:

1. if the CAPIF core function decides to update the API list of the API invoker without validation by CAPIF administrator, then the CAPIF core function:

a. shall determine if the request in the HTTP PUT or PATCH request message by the API invoker is authorized or not.

b. verify that the "apiInvokerId” and “onboardingInformation” properties are same as in API invoker resource on CAPIF core function.

c. if the API invoker's request is authorized and the properties "apiInvokerId” and “onboardingInformation” match, the CAPIF core function shall:

i. if the request contains an API list:

- create a list of APIs the API invoker is allowed to access; and

- update the resource identified by the CAPIF Resource URI of the API invoker’s HTTP PUT or PATCH request with the updated information in the request and the API list created in step A;

ii. if the request does not contain an API list, update the resource identified by the CAPIF Resource URI of the API invoker’s HTTP PUT or PATCH request with the updated information in the request; and

iii. return the updated API invoker details;

2. otherwise, the CAPIF core function:

a. shall acknowledge the receipt of the update API invoker details request to the API invoker.

b. verify that the "apiInvokerId” and “onboardingInformation” properties are same as in API invoker resource on CAPIF core function;

c. if the properties "apiInvokerId” and “onboardingInformation” match, then shall request the CAPIF administrator to validate the request or the API management to validate the request by sharing the API invoker identity information and the updated information received in the HTTP PUT or PATCH request message;

d. on receiving confirmation of successful validation of the request from the CAPIF administrator or the API management, the CAPIF core function shall:

i. update the resource identified by the CAPIF Resource URI of the API invoker’s HTTP PUT or PATCH request, with validated information; and

ii. return the updated API invoker details.

NOTE 1: How the CAPIF core function determines that the CAPIF core function can process the request and update the API list of the API invoker automatically is out-of-scope of this specification.

NOTE 2: Interactions between the CAPIF core function and the CAPIF administrator or the API management is out-of-scope of this specification.

NOTE 3: After the operation is completed the API Invoker no longer needs to maintain the Notification Destination URI and may delete it.

\* \* \* Next changes \* \* \* \*

#### 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 | /onboardedInvokers | POST | On-boards a new API invoker by creating an API invoker profile |
| Individual On-boarded API Invoker | /onboardedInvokers/{onboardingId} | DELETE | Off-boards an individual API invoker by deleting the associated API invoker profile identified by {onboardingId} |
| PATCH | Modifies the API invoker details of an individual API invoker identified by the {onboardingId} |
| PUT | Updates the API invoker details of an individual API invoker identified by the {onboardingId} |

\* \* \* Next changes \* \* \* \*

###### 8.4.2.3.3.2a PATCH

This method shall support the URI query parameters specified in table 8.4.2.3.3.2a-1.

Table 8.4.2.3.3.2a-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| n/a |  |  |  |  |

This method shall support the request data structures specified in table 8.4.2.3.3.2a-2 and the response data structures and response codes specified in table 8.4.2.3.3.2a-3.

Table 8.4.2.3.3.2a-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| APIInvokerEnrolmentDetailsPatch | M | 1 | Modified details of the API invoker and a notification destination URI for any modify request related notifications. |

Table 8.4.2.3.3.2a-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| APIInvokerEnrolmentDetails | M | 1 | 200 OK | API invoker’s information modified successfully. Modified details of the API invoker as part of the APIInvokerEnrolmentDetails, which is provided in the response body. |
| n/a |  |  | 202 Accepted | The CAPIF core has accepted the modify details request and is processing it. When processing is completed, the CAPIF core function will send a Notify\_Update\_Completion notification to the requesting API invoker. See sub clause 8.4.3.3. |
| n/a |  |  | 204 No Content | API invoker’s information modified successfully, with no content to be sent in the response body. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection, during resource modification. The response shall include a Location header field containing an alternative URI of the resource located in an alternative CAPIF core function.Redirection handling is described in subclause 5.2.10 of 3GPP TS 29.122 [14]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection, during resource modification. The response shall include a Location header field containing an alternative URI of the resource located in an alternative CAPIF core function.Redirection handling is described in subclause 5.2.10 of 3GPP TS 29.122 [14]. |
| NOTE: The mandatory HTTP error status codes for the HTTP PATCH method listed in table 5.2.6-1 of 3GPP TS 29.122 [14] also apply. |

Table 8.4.2.3.3.2a-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | String | M | 1 | An alternative URI of the resource located in an alternative CAPIF core function. |

Table 8.4.2.3.3.2a-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | String | M | 1 | An alternative URI of the resource located in an alternative CAPIF core function. |

\* \* \* Next changes \* \* \* \*

#### 8.4.4.1 General

This subclause specifies the application data model supported by the API. Data types listed in subclause 7.2 also apply to this API.

Table 8.4.4.1-1 specifies the data types defined specifically for the CAPIF\_API\_Invoker\_Management\_API service.

Table 8.4.4.1-1: CAPIF\_API\_Invoker\_Management\_API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| APIInvokerEnrolmentDetails | Subclause 8.4.4.2.2 | API invoker's enrolment details. |  |
| APIList | Subclause 8.4.4.2.4 | List of APIs. |  |
| OnboardingInformation | Subclause 8.4.4.2.5 | On-boarding information of the API invoker. |  |
| OnboardingNotification | Subclause 8.4.4.2.7 | Notification with on-boarding or update result. |  |
| APIInvokerEnrolmentDetailsPatch | Subclause 8.4.4.2.x | API invoker's enrolment parameters list for modification. | PatchUpdate |

Table 8.4.4.1-2 specifies data types re-used by the CAPIF\_API\_Invoker\_Management\_API service.

Table 8.4.4.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| SupportedFeatures | 3GPP TS 29.571 [19] | Used to negotiate the applicability of optional features defined in table 8.4.6-1. |  |

\* \* \* Next changes \* \* \* \*

##### 8.4.4.2.x Type: APIInvokerEnrolmentDetailsPatch

Table 8.4.4.2.x-1: Definition of type APIInvokerEnrolmentDetailsPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| onboardingInformation | OnboardingInformation | O | 1 | On-boarding information about the API invoker necessary for the CAPIF core function to on-board the API invoker. |  |
| notificationDestination | Uri | O | 1 | URI where the notification should be delivered to. |  |
| apiList | APIList | O | 0..1 | A list of APIs. When included by the API invoker in the HTTP request message, it lists the APIs that the API invoker intends to invoke while onboard or API invoker update.  |  |
| apiInvokerInformation | string | O | 0..1 | Generic information related to the API invoker such as details of the device or the application.  |  |

\* \* \* Next changes \* \* \* \*

### 8.4.6 Feature negotiation

General feature negotiation procedures are defined in subclause 7.8. Table 8.4.6-1 lists the supported features for CAPIF\_API\_Invoker\_Management\_API.

Table 8.4.6-1: Supported Features

|  |  |  |
| --- | --- | --- |
| Feature number | Feature Name | Description |
| 1 | Notification\_test\_event | Testing of notification connection is supported according to subclause 7.6. |
| 2 | Notification\_websocket | The delivery of notifications over Websocket is supported according to subclause 7.6. This feature requires that the Notification\_test\_event feature is also supported. |
| y | PatchUpdate | Indicates the support of the PATCH method for updating an On-boarded API Invoker resource. |

\* \* \* Next changes \* \* \* \*

## A.5 CAPIF\_API\_Invoker\_Management\_API

openapi: 3.0.0

info:

 title: CAPIF\_API\_Invoker\_Management\_API

 description: |

 API for API invoker management.

 © 2021, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC).

 All rights reserved.

 version: "1.2.0-alpha.3"

externalDocs:

 description: 3GPP TS 29.222 V17.3.0 Common API Framework for 3GPP Northbound APIs

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

servers:

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

 variables:

 apiRoot:

 default: https://example.com

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

paths:

 /onboardedInvokers:

 post:

 description: Creates a new individual API Invoker profile.

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 callbacks:

 notificationDestination:

 '{request.body#/notificationDestination}':

 post:

 description: Notify the API Invoker about the onboarding completion

 requestBody: # contents of the callback message

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: No Content (successful onboarding notification)

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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'

 responses:

 '201':

 description: API invoker on-boarded successfully.

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/api-invoker-management/v1/onboardedInvokers/{onboardingId}'

 required: true

 schema:

 type: string

 '202':

 description: The CAPIF core has accepted the Onboarding request and is processing it.

 '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'

 /onboardedInvokers/{onboardingId}:

 delete:

 description: Deletes an individual API Invoker.

 parameters:

 - name: onboardingId

 in: path

 description: String identifying an individual on-boarded API invoker resource

 required: true

 schema:

 type: string

 responses:

 '204':

 description: The individual API Invoker matching onboardingId was offboarded.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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 individual API invoker details.

 parameters:

 - name: onboardingId

 in: path

 description: String identifying an individual on-boarded API invoker resource

 required: true

 schema:

 type: string

 requestBody:

 description: representation of the API invoker details to be updated in CAPIF core function

 required: true

 content:

 application/json:

 schema:

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

 callbacks:

 notificationDestination:

 '{request.body#/notificationDestination}':

 post:

 description: Notify the API Invoker about the API invoker update completion

 requestBody: # contents of the callback message

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: No Content (successful API invoker update notification)

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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'

 responses:

 '200':

 description: API invoker details updated successfully.

 content:

 application/json:

 schema:

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

 '202':

 description: The CAPIF core has accepted the API invoker update details request and is processing it.

 '204':

 description: API invoker’s information updated successfully, with no content to be sent in the response body.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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'

 patch:

 description: Modify an individual API invoker details.

 operationId: ModifyIndApiInvokeEnrolment

 tags:

 - Individual API Invoker enrolment details

 parameters:

 - name: onboardingId

 in: path

 required: true

 schema:

 $ref: string

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: The definition of the service API is modified successfully and a representation of the updated service API is returned in the request body.

 content:

 application/json:

 schema:

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

 '204':

 description: No Content. The definition of the service API is modified successfully.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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:

 OnboardingInformation:

 type: object

 description: Represents on-boarding information of the API invoker.

 properties:

 apiInvokerPublicKey:

 type: string

 description: The API Invoker’s public key

 apiInvokerCertificate:

 type: string

 description: The API Invoker’s generic client certificate, provided by the CAPIF core function.

 onboardingSecret:

 type: string

 description: The API Invoker’s onboarding secret, provided by the CAPIF core function.

 required:

 - apiInvokerPublicKey

 APIList:

 type: array

 items:

 $ref: 'TS29222\_CAPIF\_Publish\_Service\_API.yaml#/components/schemas/ServiceAPIDescription'

 minItems: 1

 description: The list of service APIs that the API Invoker is allowed to invoke

 APIInvokerEnrolmentDetails:

 type: object

 properties:

 apiInvokerId:

 type: string

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

 readOnly: true

 onboardingInformation:

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

 notificationDestination:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Uri'

 requestTestNotification:

 type: boolean

 description: Set to true by Subscriber to request the CAPIF core function to send a test notification as defined in in subclause 7.6. Set to false or omitted otherwise.

 websockNotifConfig:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/WebsockNotifConfig'

 apiList:

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

 apiInvokerInformation:

 type: string

 description: Generic information related to the API invoker such as details of the device or the application.

 supportedFeatures:

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

 required:

 - onboardingInformation

 - notificationDestination

 description: Information about the API Invoker that requested to onboard

 OnboardingNotification:

 type: object

 description: Represents a notification of on-boarding or update result.

 properties:

 result:

 type: boolean

 description: Set to "true" indicate successful on-boarding. Otherwise set to "false"

 resourceLocation:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Uri'

 apiInvokerEnrolmentDetails:

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

 apiList:

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

 required:

 - result

 APIInvokerEnrolmentDetailsPatch:

 type: object

 properties:

 onboardingInformation:

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

 notificationDestination:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Uri'

 apiList:

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

 apiInvokerInformation:

 type: string

 description: Generic information related to the API invoker such as details of the device or the application.

\* \* \* End of changes \* \* \* \*