**3GPP TSG-CT WG3 Meeting #142 *C3-253587***

**Gothenburg, SE, 25 - 29 August 2025 (Revision of C3-253092**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0429** | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | Digital Asset Profile management API definition | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | C3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Metaverse\_App | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | As per TS 23.438 clause 8.2 explains SS\_DAProfileManagement, API.  As per TS 22.156 clause 3.1,  **digital asset**: digitally stored information that is uniquely identifiable and can be used to realize value according to their licensing conditions and applicable regulations. Examples of digital assets include digital representation (avatar), software licenses, gift certificates, tokens and files (e.g., music files) that have been purchased. This is not an exhaustive list of examples.  The corresponding API definition updates has to be done in stage 3. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Digital Asset profile services API definition with resources and data models are updated. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The new Digital asset profile API definition is missing in stage 3.  Stage 3 is not inline with Stage 2. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.13.1 <new> | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 impact the OpenAPI descriptions defined in this specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* First Change \* \* \* \*

### 7.13.1 SS\_DAProfileManagement Service API

#### 7.13.1.1 Introduction

The SS\_DAProfileManagement service shall use the SS\_DAProfileManagement API.

The API URI of the SS\_DAProfileManagement API shall be:

**{apiRoot}/<apiName>/<apiVersion>**

The request URIs used in HTTP requests shall have the Resource URI structure defined in clause 6.5, i.e.:

**{apiRoot}/<apiName>/<apiVersion>/<apiSpecificSuffixes>**

with the following components:

- The {apiRoot} shall be set as described in clause 6.5.

- The <apiName>shall be "ss-da-pm".

- The <apiVersion> shall be "v1".

- The <apiSpecificSuffixes> shall be set as described in clause 6.5.

NOTE: When 3GPP TS 29.122 [2] is referenced for the common protocol and interface aspects for API definition in the clauses under clause 5, the DA server takes the role of the SCEF and the service consumer takes the role of the SCS/AS.

#### 7.13.1.2 Usage of HTTP and common API related aspects

The provisions of clause 6.3 shall apply for the SS\_DAProfileManagement API.

#### 7.13.1.3 Resources

##### 7.13.1.3.1 Overview

This clause describes the structure for the Resource URIs and the resources and methods used for the service.

Figure 7.13.1.3.1-1 depicts the resource URIs structure for the SS\_DAProfileManagement API.



Figure 7.13.1.3.1-1: Resource URI structure of the SS\_DAProfileManagement API

Table 7.13.1.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 7.13.1.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| DA Profiles | /profile | POST | Create a new Individual DA profile. |
| Individual DA Profile | /profile/{daId} | GET | Retrieves an Individual DA profile identified by {daId}. |
| PUT | Updates an Individual DA profile {daId}. |
| PATCH | Partially modifies an Individual DA profile {daId}. |
| DELETE | Delete an Individual DA profile {daId}. |

##### 7.13.1.3.2 Resource: DA Profile

###### 7.13.1.3.2.1 Description

The resource allows the VAL server to request to create a new individual DA profile at the DA server.

###### 7.13.1.3.2.2 Resource Definition

Resource URI: **{apiRoot}/ss-da-pm/<apiVersion>/profile**

This resource shall support the resource URI variables defined in the table 7.13.1.3.2.2-1.

Table 7.13.1.3.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Definition |
| apiRoot | string | See clause 7.13.1.1 |

###### 7.13.1.3.2.3 Resource Standard Methods

7.13.1.3.2.3.1 POST

This method shall support the URI query parameters specified in table 7.13.1.3.2.3.1-1.

Table 7.13.1.3.2.3.1-1: URI query parameters supported by the POST method on this resource

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

This method shall support the request data structures specified in table 7.13.1.3.2.3.1-2 and the response data structures and response codes specified in table 7.13.1.3.2.3.1-3.

Table 7.13.1.3.2.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| DigitalAssetProfile | M | 1 | Create DA profile |

Table 7.13.1.3.2.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| DigitalAssetProfile | M | 1 | 201 Created | DA profile is created successfully. |
| NOTE: The mandatory HTTP error status codes for the POST method listed in table 5.2.6-1 of 3GPP TS 29.122 [3] also apply. | | | | |

Table 7.13.1.3.2.3.1-4: Headers supported by the 201 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains the URI of the newly created resource, according to the structure: {apiRoot}/ss-dapm/<apiVersion>/profile/{daId} |

###### 7.13.1.3.2.4 Resource Custom Operations

None.

##### 7.13.1.3.3 Resource: Individual DA profile

###### 7.13.1.3.3.1 Description

The resource represents an individual DA Profile that is created at the DA server.

###### 7.13.1.3.3.2 Resource Definition

Resource URI: **{apiRoot}/ss-dapm/<apiVersion>/profile/{daId}**

This resource shall support the resource URI variables defined in the table 7.13.1.3.3.2-1.

Table 7.13.1.3.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Definition |
| apiRoot | string | See clause 6.5 |
| daId | string | Represents an individual DA Profile resource. |

###### 7.13.1.3.3.3 Resource Standard Methods

7.13.1.3.3.3.1 GET

This operation retrieves an individual DA profile. This method shall support the URI query parameters specified in table 7.13.1.3.3.3.1-1.

Table 7.13.1.3.3.3.1-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 7.13.1.3.3.3.1-2 and the response data structures and response codes specified in table 7.13.1.3.3.3.1-3.

Table 7.13.1.3.3.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 7.13.1.3.3.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| DigitalAssetProfile | M | 1 | 200 OK | Successful case. The requested "Individual Server to retrieve the DA profile. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection, during resource retrieval. The response shall include a Location header field containing an alternative URI of the resource located in an alternative DA server.  Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection, during resource retrieval. The response shall include a Location header field containing an alternative URI of the resource located in an alternative DA server.  Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| NOTE: The mandatory HTTP error status codes for the GET method listed in table 5.2.6-1 of 3GPP TS 29.122 [3] also apply. | | | | |

Table 7.13.1.3.3.3.1-4: 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 DA server. |

Table 7.13.1.3.3.3.1-5: 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 DA server. |

7.13.1.3.3.3.2 PUT

This operation updates the individual digital asset profile. This method shall support the URI query parameters specified in table 7.13.1.3.3.3.2-1.

Table 7.13.1.3.3.3.2-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 7.13.1.3.3.3.2-2 and the response data structures and response codes specified in table 7.13.1.3.3.3.2-3.

Table 7.13.1.3.3.3.2-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| DigitalAssetProfile | M | 1 | Updated details of the DA profile. |

Table 7.13.1.3.3.3.2-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| DigitalAssetProfile | M | 1 | 200 OK | The DA profile is updated successfully and the updated DA profile returned in the response. |
| n/a |  |  | 204 No Content | The DA profile updated successfully. |
| 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 DA server.  Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| 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 DA server.  Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| NOTE: The mandatory HTTP error status codes for the PUT method listed in table 5.2.6-1 of 3GPP TS 29.122 [3] also apply. | | | | |

Table 7.13.1.3.3.3.2-4: 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 DA server. |

Table 7.13.1.3.3.3.2-5: 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 DA server. |

7.13.1.3.3.3.3 PATCH

This method shall support the URI query parameters specified in table 7.13.1.3.3.3.3-1.

Table 7.13.1.3.3.3.3-1: 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 7.13.1.3.3.3.3-2 and the response data structures and response codes specified in table 7.13.1.3.3.3.3-3.

Table 7.13.1.3.3.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| DigitalAssetProfilePatch | M | 1 | Contains the modifications to be applied to the Individual DA Profile resource. |

Table 7.13.1.3.3.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| DigitalAssetProfile | M | 1 | 200 OK | Individual DA Profile resource is modified successfully, and representation of the modified Individual DA Profile resource is returned. |
| n/a |  |  | 204 No Content | The Individual DA Profile resource is modified successfully. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection.  The response shall include a Location header field containing an alternative URI of the resource located in an alternative SEAL server.  Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection.  The response shall include a Location header field containing an alternative URI of the resource located in an alternative SEAL server.  Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| NOTE: The mandatory HTTP error status codes for the PATCH method listed in table 5.2.6-1 of 3GPP TS 29.122 [3] also apply. | | | | |

Table 7.13.1.3.3.3.3-4: 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 SEAL server. |

Table 7.13.1.3.3.3.3-5: 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 SEAL server. |

7.13.1.3.3.3.4 DELETE

This operation deletes the individual Digital asset profile. This method shall support the URI query parameters specified in table 7.13.1.3.3.3.4-1.

Table 7.13.1.3.3.3.4-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 7.13.1.3.3.3.4-2 and the response data structures and response codes specified in table 7.13.1.3.3.3.4-3.

Table 7.13.1.3.3.3.4-2: Data structures supported by the DELETE Request Body on this resource

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

Table 7.13.1.3.3.3.4-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | The individual configuration matching the Digital asset identity is deleted. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection, during resource termination. The response shall include a Location header field containing an alternative URI of the resource located in an alternative DA server.  Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection, during resource termination. The response shall include a Location header field containing an alternative URI of the resource located in an alternative DA server.  Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| NOTE: The mandatory HTTP error status codes for the DELETE method listed in table 5.2.6-1 of 3GPP TS 29.122 [3] also apply. | | | | |

Table 7.13.1.3.3.3.4-4: 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 DA server. |

Table 7.13.1.3.3.3.4-5: 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 DA server. |

###### 7.13.1.3.3.4 Resource Custom Operations

None.

#### 7.13.1.4 Custom Operations without associated resources

There are no custom operations without associated resources defined for this API in this release of the specification.

#### 7.13.1.5 Notifications

There are no notification defined in this release of the specification.

#### 7.13.1.6 Data Model

##### 7.13.1.6.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API.

Table 7.13.1.6.1-1 specifies the data types defined for the SS\_DAProfileManagement API.

Table 7.13.1.6.1-1: SS\_DAProfileManagement API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| DigitalAssetProfile | 7.13.1.6.2.2 | Represents the DA profile. |  |
| DigitalAssetProfilePatch | 7.13.1.6.2.3 | Represents the requested modifications to the DA profile. Used to partially update Individual DA Profile resource. |  |
| AccessControlList | 7.13.1.6.2.4 | Represents the access control list and its corresponding operations |  |
| AllowedUser | 7.13.1.6.2.5 | Represents the user allowed to access the digital asset |  |
| SpatialCondition | 7.13.1.6.2.6 | Represents the spatial conditions (e.g. locations) where this digital asset profile is allowed to be accessed. |  |
| DigitalAssetType | 7.13.1.6.3.3 | Represents the different type of digital assets e.g. avatar, wallet, etc |  |
| Operation | 7.13.1.6.3.4 | Represents an allowed operations for the given user |  |

Table 7.13.1.6.1-2 specifies data types re-used by the SS\_DAProfileManagement API from other specifications, including a reference to their respective specifications, and when needed, a short description of their use within the SS\_DAProfileManagement API.

Table 7.13.1.6.1-2: SS\_DAProfileManagement API Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| DateTime | 3GPP TS 29.122 [3] | Used to represent the date and time. |  |
| LocationInfo | 3GPP TS 29.122 [3] | Used to represent the location information. |  |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the applicability of optional features defined in table 7.13.1.6-1. |  |

##### 7.13.1.6.2 Structured data types

###### 7.13.1.6.2.1 Introduction

This clause defines the structures to be used in resource representations.

###### 7.13.1.6.2.2 Type: DigitalAssetProfile

Table 7.13.1.6.2.2-1: Definition of type DigitalAssetProfile

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| accCtrlLists | array(AccessControlList) | O | 1..N | Represents the list of tuples indicating the requestors allowed to perform operations with this digital asset and the allowed operation types. |  |
| accessories | array(DaId) | O | 1..N | Represents the list of digital asset identifiers which are accessories (e.g. Hat, watch, shoes) purchased for this digital asset profile |  |
| appIds | array(string) | O | 1..N | Represents the list of application IDs which are allowed to use this digital asset profile |  |
| daId | DaId | C | 0..1 | Represents the identifier of the digital asset.  This attribute shall be present only in the response to a Digital Asset profile creation/update request. |  |
| daOwnerIds | array(DigitalAssetOwnerId) | O | 1..N | Represents the list of identifier(s) for the digital asset owner. |  |
| daType | DigitalAssetType | O | 0..1 | Represents the digital asset type. |  |
| daUri | Uri | C | 0..1 | Represents the end point/URI provided at which digital asset media is to be uploaded.  This attribute may be present only in the response to a Digital Asset profile creation/update request. |  |
| expTime | DateTime | O | 0..1 | Represents the expiry time of the DA profile. |  |
| spatialCondts | array(SpatialCondition) | O | 1..N | Represents the list of spatial conditions (e.g. locations) where this digital asset profile is allowed to be accessed |  |
| srvProviderIds | array(string) | O | 1..N | Represents the list of service providers for the digital asset. |  |
| suppFeat | SupportedFeatures | C | 0..1 | Used to negotiate the applicability of optional features as defined in clause 7.13.1.6.  This attribute shall be present in the create request only if feature negotiation needs to take place. |  |
| valServerId | string | C | 1 | Represents the VAL server identifier.  This attribute shall be present only in the response to a Digital Asset profile creation request. |  |

###### 7.13.1.6.2.3 Type: DigitalAssetProfilePatch

Table 7.13.1.6.2.3-1: Definition of type DigitalAssetProfilePatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| accCtrlLists | array(AccessControlList) | O | 1..N | Represents the list of tuples indicating the requestors allowed to perform operations with this digital asset and the allowed operation types. |  |
| accessories | array(DaId) | O | 1..N | Represents the list of digital asset identifiers which are accessories (e.g. Hat, watch, shoes) purchased for this digital asset profile. |  |
| appIds | array(string) | O | 1..N | Represents the list of application IDs which are allowed to use this digital asset profile |  |
| daOwnerIds | array(DigitalAssetOwnerId) | O | 1..N | Represents the list of identifier(s) for the digital asset owner. |  |
| daType | DigitalAssetType | O | 0..1 | Represents the digital asset type |  |
| expTime | DateTime | O | 0..1 | Represents the expiry time of the DA profile. |  |
| spatialCondts | array(SpatialCondition) | O | 1..N | Represents the list of spatial conditions (e.g. locations) where this digital asset profile is allowed to be accessed |  |
| srvProviderIds | array(string) | O | 1..N | Represents the list of service providers for the digital asset. |  |

###### 7.13.1.6.2.4 Type: AccessControlList

Table 7.13.1.6.2.4-1: Definition of type AccessControlList

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| allowedUsers | array(AllowedUser) | O | 1..N | Represents the list of users allowed to access this digital asset |  |

###### 7.13.1.6.2.5 Type: AllowedUser

Table 7.13.1.6.2.5-1: Definition of type AllowedUser

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| user | string | M | 1 | Represents the user allowed to access this digital asset |  |
| allowedOperations | array(Operations) | O | 1..N | Represents the list of operations allowed by the user. |  |
| predModels | array(string) | O | 1..N | Represents the list of one or more predictive model for the user |  |

###### 7.13.1.6.2.6 Type: SpatialCondition

Table 7.13.1.6.2.6-1: Definition of type SpatialCondition

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| currLoc | LocationInfo | C | 1 | Represents the location where DA profile is allowed to be accessed. (NOTE) |  |
| NOTE: At least one of these attributes shall be present | | | | | |

##### 7.13.1.6.3 Simple data types and enumerations

###### 7.13.1.6.3.1 Introduction

This clause defines simple data types and enumerations that are referenced from data structures defined in the previous clauses. In addition, data types and enumerations defined in clause 6.2.1 can be referenced.

###### 7.13.1.6.3.2 Simple data types

The simple data types defined in table 7.13.1.6.3.2-1 shall be supported.

Table 7.13.1.6.3.2-1: Simple data types

|  |  |  |  |
| --- | --- | --- | --- |
| Type Name | Type Definition | Description | Applicability |
| DigitalAssetOwnerId | string | Represents the identity of the digital asset owner |  |
| DaId | string | Represents the identifier of the digital asset. |  |

###### 7.13.1.6.3.3 Enumeration: DigitalAssetType

The enumeration DigitalAssetType represents the different type of digital assets e.g. avatar, wallet, etc. It shall comply with the provisions defined in table 7.13.1.6.3.3-1.

Table 7.13.1.6.3.3-1: Enumeration DigitalAssetType

|  |  |  |
| --- | --- | --- |
| **Enumeration value** | **Description** | **Applicability** |
| ACCESSORY | Represents the accessory |  |
| AVATAR | Represents the avatar |  |
| GIFT\_CERTIFICATES | Represents the gift certificates |  |
| SOFTWARE\_LICENSE | Represents the software license |  |
| TOKENS\_AND\_FILES | Represents the tokens and files |  |
| WALLET | Represents the Digital wallet |  |

###### 7.13.1.6.3.4 Enumeration: Operations

The enumeration Operation represents an allowed operations for the given user. It shall comply with the provisions defined in table 7.13.1.6.3.4-1.

Table 7.13.1.6.3.4-1: Enumeration Operations

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| DISCOVERY | Indicates that the operation is discovery. |  |
| RETRIEVE | Indicates that the operation is retrieve. |  |
| CREATE | Indicates that the operation is CREATE. |  |
| UDPATE | Indicates that the operation is UPDATE. |  |
| DELETE | Indicates that the operation is DELETE. |  |
| UPLOAD | Indicates that the Digital asset media operation is UPLOAD. |  |
| DOWNLOAD | Indicates that the Digital asset media operation is DOWNLOAD. |  |

#### 7.13.1.7 Error Handling

##### 7.13.1.7.1 General

HTTP error handling shall be supported as specified in clause 6.7.

In addition, the requirements in the following clauses shall apply.

##### 7.13.1.7.2 Protocol Errors

In this Release of the specification, there are no additional protocol errors applicable for the SS\_DAProfileManagement API.

##### 7.13.1.7.3 Application Errors

The application errors defined for SS\_DAProfileManagement API are listed in table 7.13.1.7.3-1.

Table 7.13.1.7.3-1: Application errors

|  |  |  |  |
| --- | --- | --- | --- |
| Application Error | HTTP status code | Description | Applicability |
|  |  |  |  |

#### 7.13.1.8 Feature negotiation

The optional features in table 7.13.1.8-1 are defined for the SS\_DAProfileManagement API. They shall be negotiated using the extensibility mechanism defined in clause 5.2.7 of 3GPP TS 29.122 [2].

Table 7.13.1.8-1: Supported Features

|  |  |  |
| --- | --- | --- |
| **Feature number** | **Feature Name** | **Description** |
|  |  |  |

#### 7.13.1.9 Security

The provisions of clause 6 of 3GPP TS 29.122 [2] shall apply for the SS\_DAProfileManagement API.

\* \* \* \* End of Changes \* \* \* \*