**3GPP TSG-CT WG4 Meeting #130C4-253413**

**Gothenburg, Sweden, August 25 – 29, 2025 (revision of C4-253183)**

**Source: Lenovo, China Mobile, Huawei, HPE**

**Title: Pseudo-CR on New UDR service capabilities for AIoT**

**Spec: 3GPP TS 29.506 V0.0.0**

**Agenda item: 19.70**

**Document for: Agreement**

**1. Introduction**

CT4 agreed to specify UDR services for AIoT device profile data. This PCR proposes the definition of the UDR data repository service API for AIoT device profile data.

Furthermore, as the UDR DR service is reused from 3GPP TS 29.504, there is no need to specify the services offered by the UDR in clause 5 of this document. Instead, this PCR proposes to specify the resources and data model in clause 5, rather than in clause 6. Please note that the new proposed document structure is aligned with 3GPP TS 29.505 and 3GPP TS 29.519.

**2. Reason for Change**

Updating clause 1, 2, 4, 5, 6, A2 and subclauses.

**3. Conclusions**

This PCR defines a new UDR service for AIoT device profile data.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.506v0.0.0.

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

# 1 Scope

The present document specifies the usage of the Unified Data Repository services for Ambient IoT data. It defines the resource structure and data model for Ambient IoT data accessed via the Nudr Service-Based Interface. In addition, it specifies the protocol aspects of the Nudr Service-Based Interface that are specific to Ambient IoT data.

The stage 3 protocol definition for Nudr Service Based Interface which is common for Ambient IoT data, subscription data, policy data, structure data and application data for exposure is specified in 3GPP TS 29.504 [29504].

The Technical Realization of the Service Based Architecture and the Principles and Guidelines for Services Definition are specified in TS 29.500 [4] and TS 29.501 [5].

\*\*\* Next Change \*\*\*

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[4] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

[5] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".

[6] OpenAPI: "OpenAPI Specification Version 3.0.0", <https://spec.openapis.org/oas/v3.0.0>.

[7] 3GPP TR 21.900: "Technical Specification Group working methods".

[8] 3GPP TS 33.501: "Security architecture and procedures for 5G system".

[9] IETF RFC 6749: "The OAuth 2.0 Authorization Framework".

[10] 3GPP TS 29.510: "5G System; Network Function Repository Services; Stage 3".

[11] IETF RFC 9113: "HTTP/2".

[12] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".

[13] IETF RFC 9457: "Problem Details for HTTP APIs".

[14] IETF RFC 9110: "http Semantics".

[15] IETF RFC 9111: "HTTP Caching".

[29504] 3GPP TS 29.504: "5G System; Unified Data Repository Services; Stage 3".

[29571] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces Stage 3".

[29.369] 3GPP TS 29.369: "Ambient IoT Data Management Services".

\*\*\* Next Change \*\*\*

# 4 Overview

The resources, data model and usage defined in the present document are used by the 5GC NFs (e.g. ADM) to access the AIoT device profile data via the Unified Data Repository services as specified in 3GPP TS 29.504 [29504].

\*\*\* Next Change \*\*\*



# 5 Usage of Nudr\_DataRepository Service API for Ambient IoT data

## 5.1 Introduction

The following clauses specify the usage of Nudr\_DataRepository service for Ambient IoT data. The principles specified in 3GPP TS 29.504 [29504] are followed unless explicitly specified otherwise in the following clauses.

## 5.2 Resources

### 5.2.1 Overview

This clause specifies the resources for the usage of the Unified Data Repository service for AIoT device profile data.

### 5.2.2 Resource Structure

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

Figure 5.2.2-1 depicts the resource URIs structure for the Nudr\_DataRepository API for AIoT device profile data.



Figure 5.2.2-1: Resource URI structure of the Nudr\_DataRepository API for AIoT device profile data

Table 5.2.2-1 provides an overview of the resources and applicable HTTP methods.

Table 5.2.2-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| AiotDeviceProfileData | /aiot-data/aiot-device-profile-data/{aiotDevPermId} | GET | Retrieve the AIoT device profile data for an AIoT device permanent identifier. |
|  |  | PATCH | Modify the AIoT device profile data for an AIoT device permanent identifier. |
| AfAuthorizationData | /af-authorization-data | GET | Retrieve AF Authorization Data |

### 5.2.3 Resource: AiotDeviceProfileData

#### 5.2.3.1 Description

The resource represents all AIoT device profile data attributes in the UDR for a given "aiotDevPermId".

#### 5.2.3.2 Resource definition

Resource URI: **{apiRoot}/nudr-dr/<apiVersion>/aiot-data/aiot-device-profile-data/{aiotDevPermId}**

This resource shall support the resource URI variables defined in table 5.2.3.2-1.

Table 5.2.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See 3GPP TS 29.504 [29504] clause 6.1.1 |
| aiotDevPermId | AiotDevPermId | Represents the AIoT device permanent id. Data type AiotDevPermId is defined in 3GPP TS 29.571 [29571]. |

#### 5.2.3.3 Resource Standard Methods

##### 5.2.3.3.1 GET

This method shall support the URI query parameters specified in table 5.2.3.3.1-1.

Table 5.2.3.3.1-1: 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 5.2.3.3.1-2 and the response data structures and response codes specified in table 5.2.3.3.1-3.

Table 5.2.3.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.3.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| AiotDeviceProfileData | M | 1 | 200 OK | Upon success, a response body containing AIoT Device Profile Data shall be returned. |
| ProblemDetails | O | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:  - DATA\_NOT\_FOUND |
| NOTE: The mandatory HTTP error status codes for the GET method listed in table 5.2.7.1-1 of 3GPP TS 29.500 [4] also apply. | | | | |

##### 5.2.3.3.2 PATCH

This method shall support the URI query parameters specified in table 5.2.3.3.2-1.

Table 5.2.3.3.2-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | The features supported by the NF service consumer. |

This method shall support the request data structures specified in table 5.2.3.3.2-2 and the response data structures and response codes specified in table 5.2.3.3.2-3.

Table 5.2.3.3.2-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| AiotDeviceProfileDataPatch | M | 1 | Modify the aiot device profile data resource for a given AIoT device permanent identifier. |

Table 5.2.3.3.2-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:  - DATA\_NOT\_FOUND |
| NOTE 1: The mandatory HTTP error status codes for the PATCH method listed in table 5.2.7.1-1 of 3GPP TS 29.500 [4] also apply.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

\*\*\* Next Change \*\*\*

### 5.2.4 Resource: AfAuthorizationData

#### 5.2.4.1 Description

This resource is used to represent AF Authorization Data.

#### 5.2.4.2 Resource Definition

Resource URI: **{apiRoot}/nudr-dr/<apiVersion>/aiot-data/af-authorization-data**

This resource shall support the resource URI variables defined in table 6.1.3.3.2-1.

**Table 5.2.4.2-1: Resource URI variables for this resource**

|  |  |  |
| --- | --- | --- |
| **Name** | **Data type** | **Definition** |
| apiRoot | string | See 3GPP TS 29.504 [29504] clause 6.1.1 |

#### 5.2.4.3 Resource Standard Methods

##### 5.2.4.3.1 GET

This method shall support the URI query parameters specified in table 5.2.4.3.1-1.

**Table 5.2.4.3.1-1: URI query parameters supported by the GET method on this resource**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** | **Applicability** |
| af-id | AfId | O | 0..1 | When present, this parameter indicates the AF for whom the Authorization data is to be retrieved.  When this IE is absent, it shall indicate that the Authorization Data for all the AFs are to be retrieved. |  |

This method shall support the request data structures specified in table 5.2.4.3.1-2 and the response data structures and response codes specified in table 5.2.4.3.1-3.

**Table 5.2.4.3.1-2: Data structures supported by the GET Request Body on this resource**

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

**Table 5.2.4.3.1-3: Data structures supported by the GET Response Body on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Response**  **codes** | **Description** |
| AfAuthorizationData | M | 1 | 200 OK | Upon success, a response body containing the AF Authorization Data shall be returned. |
| ProblemDetails | O | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:  - DATA\_NOT\_FOUND |
| NOTE: The mandatory HTTP error status code for the GET method listed in Table 5.2.7.1-1 of 3GPP TS 29.500 [4] also apply. | | | | |

**Table 5.2.4.3.1-4: Headers supported by the GET method on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| If-None-Match | string | O | 0..1 | Validator for conditional requests, as described in IETF RFC 9110 [14], clause 13.1.2 |
| If-Modified-Since | string | O | 0..1 | Validator for conditional requests, as described in IETF RFC 9110 [14], clause 13.1.3 |

**Table 5.2.4.3.1-5: Headers supported by the 200 response code on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| Cache-Control | string | O | 0..1 | Cache-Control containing max-age, as described in IETF RFC 9111 [15], clause 5.2 |
| ETag | string | O | 0..1 | Entity Tag, containing a strong validator, as described in IETF RFC 9110 [14], clause 8.8.3 |
| Last-Modified | string | O | 0..1 | Timestamp for last modification of the resource, as described in IETF RFC 9110 [14], clause 8.8.2 |

\*\*\* Next Change \*\*\*

## 5.3 Data Model

### 5.3.1 General

This clause specifies the application data model supported by the API.

Table 5.3.1-1 specifies the data types defined for the Nudr\_DataRepository for AIoT data service-based interface protocol.

Table 5.3.1-1: Nudr\_DataRepository specific Data Types for AIoT data

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| AiotDeviceProfileData | 5.3.2.2 | AIoT Device Profile Data |  |
| AiotDeviceProfileDataPatch | 5.3.2.3 | AIoT Device Profile Data for patch operation |  |
| IndividualAfAuthorizationData | 5.3.2.4 | Individual AF Authorization Data |  |

Table 5.3.1-2 specifies data types re-used by the Nudr\_DataRepository for AIoT Data service based interface protocol from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the Nudr\_DataRepository service based interface for Ambient IoT data.

Table 5.3.1-2: Nudr\_DataRepository re-used Data Types for AIoT data

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| AiotDevPermId | 3GPP TS 29.571 [29571] | AIoT device permanent identifier |  |
| LastKnownAiotfInfo | 3GPP TS 29.369 [29369] | Last Known AIoTF Information |  |
| IndividualAfAuthorizationData | 3GPP TS 29.369 [29369] | Individual AF Authorization Data |  |
| AllowedTargetAiotDevice | 3GPP TS 29.369 [29369] | Allowed Target AIoT Device |  |
| AfAuthorizationData | 3GPP TS 29.369 [29369] | AF Authorization Data |  |
| LastKnownAiotInfoInd | 3GPP TS 29.369 [29369] | Last known AIOTF Information |  |
| AfId | 3GPP TS 29.369 [29369] | AF ID |  |
| AllowedServiceOperation | 3GPP TS 29.369 [29369] | Allowed Service Operation |  |
| PatchResult | 3GPP TS 29.571 [29571] |  |  |
| ProblemDetails | 3GPP TS 29.571 [29571] | Used in error responses to provide more detailed information about an error. |  |
| SupportedFeatures | 3GPP TS 29.571 [29571] | see 3GPP TS 29.500 [4] clause 6.6 | SupportedFeatures |

### 5.3.2 Structured data types

#### 5.3.2.1 Introduction

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

#### 5.3.2.2 Type AiotDeviceProfileData

Table 5.3.2.2-1: Definition of type AiotDeviceProfileData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| aiotDevPermId | AiotDevPermId | M | 1 | Globally unique AIoT device permanent identifier |  |
| lastKnownAiotfInfo | LastKnownAiotfInfo | M | 1 | Last known AIOTF that serves the AIoT device, or unknown.  true: the last known AIOTF that serves the AIoT device;  false: Unknown |  |

#### 5.3.2.3 Type AiotDeviceProfileDataPatch

Table 5.3.2.3A-1: Definition of type AiotDeviceProfileDataPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| lastKnownAiotfInfo | LastKnownAiotfInfo | M | 1 | Last known AIOTF that serves the AIoT device, or unknown.  true: the last known AIOTF that serves the AIoT device;  false: Unknown |  |

#### 5.3.2.4 Type: IndividualAfAuthorizationData

**Table 5.3.2.4-1: Definition of type IndividualAfAuthorizationData**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Data type** | **P** | **Cardinality** | **Description** | **Applicability** |
| afId | AfId | M | 1 | Identifier used to identify the AF. |  |
| allowedAreas | array(AiotArea) | C | 1..N | If present, it indicates the list of allowed area(s) for the indicated AF to perform the AIoT services operations.  If this attribute is absent, it means that all the areas are allowed for the AF. |  |
| allowedServiceOperations | array(AllowedServiceOperation) | C | 1..N | If present, it indicates the list of allowed service operation(s) for the AF.  If this attribute is absent, it means that all the Service Operations are allowed for the AF. |  |
| allowedTargetAiotDevices | array(AllowedTargetAiotDevice) | C | 1..N | If present, it indicates the list of allowed AIoT Device(s) for the AF.  If this attribute is absent, it means that all the Target Aiot Devices are allowed for the AF. |  |

### 5.3.3 Simple data types and enumerations

#### 5.3.3.1 Introduction

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

#### 5.3.3.2 Simple data types

The simple data types defined in table 5.4.3.2-1 shall be supported.

Table 5.4.3.2-1: Simple data types

|  |  |  |  |
| --- | --- | --- | --- |
| Type Name | Type Definition | Description | Applicability |
| AfId | string | Identifier used to identify the AF. |  |

\*\* Next Change \*\*\*

## 5.4 Error handling

### 5.4.1 General

For the Nudr\_DataRepository service API for AIoT device profile data, HTTP error responses shall be supported as specified in clause 4.8 of 3GPP TS 29.501 [5]. Protocol errors and application errors specified in table 5.2.7.2-1 of 3GPP TS 29.500 [4] shall be supported for an HTTP method if the corresponding HTTP status codes are specified as mandatory for that HTTP method in table 5.2.7.1-1 of 3GPP TS 29.500 [4].

In addition, the requirements in the following clauses are applicable for the Nudr\_DataRepository service API for AIoT device profile data.

### 5.4.2 Protocol Errors

No specific procedures for the Nudr\_DataRepository service API for AIoT device profile data are specified.

### 5.4.3 Application Errors

The application errors defined for the Nudr\_DataRepository service API for AIoT device profile data are listed in table 5.5.3-1.

Table 5.4.3-1: Application errors

|  |  |  |
| --- | --- | --- |
| Application Error | HTTP status code | Description |
| DATA\_NOT\_FOUND | 404 Not Found | The requested AIoT Device Profile Data is not found/does not exist. |

The application error handling shall follow 3GPP TS 29.504 [29504] clause 6.1.6 unless explicitly specified in this document.

\*\*\* Next Change \*\*\*

## 5.5 Feature negotiation

The optional features in table 6.1.8-1 of 3GPP TS 29.504 [29504] are defined for the Nudr\_DataRepository API. They shall be negotiated using the extensibility mechanism defined in clause 6.6 of 3GPP TS 29.500 [4].

\*\*\* Next Change \*\*\*











































































































\*\*\* Next Change \*\*\*

A.2 Nudr\_DataRepository API for AIoT device profile data

For the purpose of referencing entities in the Open API file defined in this Annex, it shall be assumed that this Open API file is contained in a physical file named "TS29506\_Aiot\_Device\_Profile\_Data.yaml".

openapi: 3.0.0

info:

version: '-'

title: Unified Data Repository Service API file for Ambient IoT data

description: |

The API version is defined in 3GPP TS 29.504

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externalDocs:

description: >

3GPP TS 29.506 V0.0.0; 5G System; Usage of the Unified Data Repository Service for AIoT Data

url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.506/'

paths:

/aiot-data/aiot-device-profile-data/{aiotDevPermId}:

parameters:

- name: aiotDevPermId

in: path

required: true

schema:

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

get:

summary: Retrieves the AIoT device profile data for an AIoT device permanent identifier

operationId: ReadAiotDeviceProfileData

tags:

- AiotDeviceProfileData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:aiot-data:aiot-device-profile-data

- nudr-dr:aiot-data:aiot-device-profile-data:aiotDevPermId:read

responses:

'200':

description: >

Upon success, a response body containing AIoT device profile data shall be returned.

content:

application/json:

schema:

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

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

description: Not Found

content:

application/problem+json:

schema:

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

'406':

$ref: 'TS29571\_CommonData.yaml#/components/responses/406'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

patch:

summary: Modify the AIoT device profile data for an AIoT device permanent identifier.

operationId: UpdateAiotDeviceProfileData

tags:

- AiotDeviceProfileData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:aiot-data:aiot-device-profile-data

- nudr-dr:aiot-data:aiot-device-profile-data:aiotDevPermId:modify

parameters:

- name: supported-features

in: query

description: Supported Features

required: false

schema:

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

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: Expected response to a valid request.

content:

application/json:

schema:

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

'204':

description: No content. Response to successful modification.

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

description: Not Found

content:

application/problem+json:

schema:

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

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

/aiot-data/af-authorization-data:

get:

summary: get AF Authorization Data

operationId: Get AF Authorization Data

tags:

- AF Authorization Data Retrieval

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr:aiot-data:af-authorization-data

- nudr-dr:aiot-data:af-authorization-data:AfId

parameters:

- name: af-id

in: query

description: AF ID

required: false

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'406':

$ref: 'TS29571\_CommonData.yaml#/components/responses/406'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

description: Unexpected error

components:

schemas:

# STRUCTURED TYPES

AiotDeviceProfileData:

description: Contains the AIoT device profile data for a given AIoT device permanent id.

type: object

properties:

aiotDevPermId:

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

description: >

Contains an AIoT device permanent identifier.

lastKnownAiotfInfo:

$ref: 'TS29369\_Nadm\_DM.yaml#/components/schemas/LastKnownAiotfInfo'

description: >

Contains Last known AIOTF that serves the AIoT device, or unknown.

required:

- aiotDevPermId

- lastKnownAiotfInfo

AiotDeviceProfileDataPatch:

description: Contains the modifiable AIoT device profile data for a given AIoT device permanent Id.

type: object

properties:

lastKnownAiotfInfo:

$ref: 'TS29369\_Nadm\_DM.yaml#/components/schemas/LastKnownAiotfInfo'

description: >

Contains Last known AIOTF that serves the AIoT device, or unknown.

IndividualAfAuthorizationData:

description: Contains the AF Authorization Data for an individual AF.

type: object

required:

- afId

properties:

afId:

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

allowedAreas:

type: array

items:

$ref: 'TS29369\_CommonData.yaml#/components/schemas/AiotArea'

allowedServiceOperations:

type: array

items:

$ref: 'TS29369\_CommonData.yaml#/components/schemas/AllowedServiceOperation'

allowedTargetAiotDevices:

type: array

items:

$ref: 'TS29369\_CommonData.yaml#/components/schemas/AllowedTargetAiotDevice'

AfId:

description: Indicates the identifier used to identify the AF.

type: string

# ENUMS:

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