**3GPP TSG CT WG3 134 C3-242378**

**Changsha, China, 15 - 19 April, 2024 (revision of C3-242xyz)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.519** | **CR** | **0509** | **rev** | **-** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *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:*** | UPSI Encoding | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | C3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SBIProtoc18 | | | | |  | ***Date:*** | | | 2024-04-19 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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:*** | | 5.4.2.3 states:    5.4.2.4 states:    In both cases above, it is not clear what is exactly referenced, since D.6.2:   * Does not contain any piece of information called UE Policy Association Information; and * Does not directly encode a UPSI, but contains the representation of the MCC+MNC and the representation of the UPSC in several tables. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarification of the sentence "Contains the UE Policy Section Information for the given UPSI as specified in clause D.6.2 of 3GPP TS 24.501 [11]" by "Contains UE Policy Section Contents for the given UPSI as in Figure D.6.2.5 of 3GPP TS 24.501 [11]".  Definition of the Upsi string with byte format data type, to make clear that the MNC+MCC representation (+UPSC) follows a byte encoding of the Octets specified in 24.501. For the definition of the Upsi data type, Clarification of the sentence "The format of the UPSI is represented in 3GPP TS 24.501[11] clause D.6.2" by "The format of the UPSI contains the MCC+MNC (derived from the SUPI) as in Figure D.6.2.3 of 3GPP TS 24.501 [11] and the UPSC as in Figure D.6.2.5 of 3GPP TS 24.501" | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Wrong UPSI encoding. Evaluation and determination of URSP rule may not work properly in the PCF. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.4.2.3, 5.4.2.4, 5.4.2.17, 5.4.3.2, A.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 impacts the OpenAPI specification for Nudr\_DataRepository API for Policy Data with a backwards compatible correction. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* Start of Changes \* \* \* \*

#### 5.4.2.3 Type UePolicySection

Table 5.4.2.3-1: Definition of type UePolicySection

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| uePolicySectionInfo | Bytes | M | 1 | Contains the UE Policy Section Contents for the given UPSI as specified in Figure D.6.2.5 of clause D.6.2 of 3GPP TS 24.501 [11]. |
| upsi | Upsi | M | 1 | Identifier for UE Policy Section (UPSI). |

\* \* \* \* Next change \* \* \* \*

#### 5.4.2.4 Type UePolicySet

Table 5.4.2.4-1: Definition of type UePolicySet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| praInfos | map(PresenceInfo) | O | 1..N | Presence reporting area information. Each PresenceInfo element shall include the Presence Reporting Area Identifier within the "praId" attribute and, for a UE-dedicated presence reporting area, shall also include the list of elements composing the presence reporting area.  A "praId" may indicate a Presence Reporting Area Set.  The "praId" attribute within the PresenceInfo data type shall also be the key of the map.  The attribute "presenceState" shall not be present. |  |
| subscCats | array(string) | O | 1..N | List of categories associated with the subscriber |  |
| uePolicySections | map(UePolicySection) | O | 1..N | Contains the UE Policy Sections.  The UPSI (UE Policy Section Identifier) is used as the key in the map. |  |
| upsis | array(Upsi) | O | 1..N | List of identifiers for the "uePolicySections" (list of UPSI(s)). |  |
| allowedRouteSelDescs | map(PlmnRouteSelectionDescriptor) | O | 1..N | Contains allowed route selection descriptors per serving PLMN for a UE. The serving PLMN identifier is the key of the map. |  |
| andspInd | boolean | O | 0..1 | Indication of UE supporting ANDSP.  True: The UE supports ANDSP;  False: The UE does not support ANDSP. |  |
| epsUrspInd | boolean | O | 0..1 | Indication of UE supporting URSP provisioning in EPS.  True: The UE supports URSP provisioning in EPS;  False: The UE does not support URSP provisioning in EPS. | EpsUrsp |
| vpsUrspInd | boolean | O | 0..1 | Indication of UE supporting VPLMN-specific URSP.  True: The UE supports VPLMN-specific URSP;  False: The UE does not support VPLMN-specific URSP. | VPLMNSpecificURSP |
| urspEnfInd | boolean | O | 0..1 | Indication of UE supporting URSP enforcement report.  True: The UE supports URSP enforcement report;  False: The UE does not support URSP enforcement report. | URSPEnforcement |
| pei | Pei | O | 0..1 | Personal Equipment Identifier. |  |
| osIds | array(OsId) | O | 1..N | Identification of the UE Operating System(s). |  |
| chfInfo | ChargingInformation | O | 0..1 | The address(es) and, if available, the CHF instance ID and the CHF set ID of the Charging Function.  (NOTE 2) | CHFInformation |
| subscSpendingLimits | boolean | O | 0..1 | Indicates whether the PCF must enforce UE policies based on subscriber spending limits.  True: Spending limit control is enabled;  False: Spending limit control is not enabled.  The absence of this attribute means that spending limit control is not provisioned for the UE. | SLAMUP |
| spendLimInfo | map(PolicyCounterInfo) | O | 1..N | Contains the status of the requested policy counters for UE. The key of the map is the attribute "policyCounterId". | SLAMUP |
| tracingReq | array(string) | O | 1..N | Tracing requirements as defined in TS 32.421 [26] | EnhancedUePolicy |
| suppFeat | SupportedFeatures | C | 0..1 | This IE represents a list of Supported features used as described in clause 5.6.  This attribute shall be provided in the PUT request and in the response of successful resource creation, and in the HTTP GET response if the "supp-feat" attribute query parameter is included in the HTTP GET request.  (NOTE 1). |  |
| resetIds | array(string) | O | 1..N | This IE uniquely identifies a part of temporary data in UDR that contains the created resource.  This attribute may be provided in the response of successful resource creation. |  |
| NOTE 1: In the HTTP request, it represents the set of features supported by the NF service consumer. In the HTTP response, it represents the set of features supported by both the NF service consumer and the UDR.  NOTE 2: When the feature "CHFInformation" is supported, the "secondaryChfAddress" may be omitted. | | | | | |

\* \* \* \* Next change \* \* \* \*

#### 5.4.2.17 Type UePolicySetPatch

Table 5.4.2.17-1: Definiton of type UePolicySetPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| uePolicySections | map(UePolicySection) | O | 1..N | Contains the UE Policy Sections.  The UPSI (UE Policy Section Identifier) is used as the key in the map. |  |
| upsis | array(Upsi) | O | 1..N | List of identifiers for the "uePolicySections" (list of UPSI(s)). |  |
| andspInd | boolean | O | 0..1 | Indication of UE supporting ANDSP. |  |
| epsUrspInd | boolean | O | 0..1 | Indication of UE supporting URSP provisioning in EPS.  True: The UE supports URSP provisioning in EPS;  False: The UE does not support URSP provisioning in EPS. | EpsUrsp |
| vpsUrspInd | boolean | O | 0..1 | Indication of UE supporting VPLMN-specific URSP.  True: The UE supports VPLMN-specific URSP;  False: The UE does not support VPLMN-specific URSP. | VPLMNSpecificURSP |
| urspEnfInd | boolean | O | 0..1 | Indication of UE supporting URSP enforcement report.  True: The UE supports URSP enforcement report;  False: The UE does not support URSP enforcement report. | URSPEnforcement |
| pei | Pei | O | 0..1 | Personal Equipment Identifier. |  |
| osIds | array(OsId) | O | 1..N | Identification of the UE Operating System(s). |  |

\* \* \* \* Next change \* \* \* \*

#### 5.4.3.2 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 |
| BdtReferenceIdRm | string | This data type is defined in the same way as the "BdtReferenceId" data type defined in 3GPP TS 29.122 [9], but with the "nullable: true" property. | EnhancedBackgroundDataTransfer |
| IpIndex | integer | Information that identifies which IP pool or external server is used to allocate the IP address. |  |
| ItemPath | string | It contains one JSON pointer value (as defined in IETF RFC 6901 [20]) that references a target location within the resource.  E.g. "/smPolicySnssaiData/<snssai>" represents the subscription to data changes in the SmPolicyData data document, in particular to the element of the "smPolicySnssaiData" map whose key is identified by the <snssai> value.  E.g. 2 "/smPolicySnssaiData/<snssai>/smPolicyDnnData/<dnn>" represents the subscription to data changes in the SmPolicyData data document, in particular to the element of the "smPolicySnssaiData" map whose key is identified by the <snssai> value and, within this one, to the element of the "smPolicyDnnData" map whose key is identified by the <dnn> value.  (NOTE) | ConditionalSubscriptionwithPartialNotification |
| OsId | string | Operating System of the served UE. It contains a Universally Unique IDentifier (UUID) as specified in IETF RFC 4122 [17]. The format of the OS Id is represented in 3GPP TS 24.501 [11]. |  |
| Upsi | string | Identifier for UE Policy Section (UPSI) as defined in clause D.1.1of 3GPP TS 24.501 [11]. It contains the MCC+MNC (of the SUPI) as in Figure D.6.2.3 and the UPSC as in Figure D.6.2.5 of clause D.6.2 of 3GPP TS 24.501 [11] encoded as a string with format "byte" as defined in OpenAPI Specification [3], i.e. base64-encoded characters. |  |
| NOTE: The S-NSSAI value used as key of the map is encoded as a string as defined in 3GPP TS 29.571[7], clause 5.4.4.2. | | | |

\* \* \* \* Next change \* \* \* \*

# A.2 Nudr\_DataRepository API for Policy 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 "TS29519\_Policy\_Data.yaml".

openapi: 3.0.0

info:

version: '-'

title: Unified Data Repository Service API file for policy data

description: |

The API version is defined in 3GPP TS 29.504

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externalDocs:

description: >

3GPP TS 29.519 V18.5.0; 5G System; Usage of the Unified Data Repository Service for Policy Data,

Application Data and Structured Data for Exposure.

url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.519/'

paths:

/policy-data/ues/{ueId}:

parameters:

- name: ueId

in: path

required: true

schema:

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

get:

summary: Retrieve the policy data for a subscriber

operationId: ReadPolicyData

tags:

- PolicyDataForIndividualUe (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:read

parameters:

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

- name: data-subset-names

in: query

style: form

explode: false

description: List of policy data subset names

required: false

schema:

type: array

items:

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

minItems: 2

responses:

'200':

description: Upon success, a response body containing policy data shall be returned.

content:

application/json:

schema:

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

'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'

'503':

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

default:

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

/policy-data/ues/{ueId}/am-data:

parameters:

- name: ueId

in: path

required: true

schema:

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

get:

summary: Retrieves the access and mobility policy data for a subscriber

operationId: ReadAccessAndMobilityPolicyData

tags:

- AccessAndMobilityPolicyData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:am-data:read

parameters:

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: >

Upon success, a response body containing access and mobility policies shall be returned.

content:

application/json:

schema:

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

'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:

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

/policy-data/ues/{ueId}/ue-policy-set:

parameters:

- name: ueId

in: path

required: true

schema:

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

get:

summary: Retrieves the UE policy set data for a subscriber

operationId: ReadUEPolicySet

tags:

- UEPolicySet (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:ue-policy-set:read

parameters:

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: Upon success, a response body containing UE policies shall be returned.

content:

application/json:

schema:

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

'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:

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

put:

summary: Create or modify the UE policy set data for a subscriber

operationId: CreateOrReplaceUEPolicySet

tags:

- UEPolicySet (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:ue-policy-set:create

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: >

Successful case. The resource has been successfully created and a response body

containing a representation of the created UEPolicySet resource shall be returned.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource'

required: true

schema:

type: string

'200':

description: >

Successful case. The resource has been successfully created and a response body

containing UE policies shall be returned.

content:

application/json:

schema:

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

'204':

description: >

Successful case. The resource has been successfully updated and no additional content

is to be sent in the response message.

'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'

'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'

patch:

summary: Modify the UE policy set data for a subscriber

operationId: UpdateUEPolicySet

tags:

- UEPolicySet (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:ue-policy-set:modify

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'204':

description: >

Successful case. The resource has been successfully updated and no additional content is

to be sent in the response message.

'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'

'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'

/policy-data/ues/{ueId}/sm-data:

get:

summary: Retrieves the session management policy data for a subscriber

operationId: ReadSessionManagementPolicyData

tags:

- SessionManagementPolicyData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:sm-data:read

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: snssai

in: query

required: false

content:

application/json:

schema:

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

- name: dnn

in: query

required: false

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: Upon success, a response body containing SmPolicyData shall be returned.

content:

application/json:

schema:

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

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'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 session management policy data for a subscriber

operationId: UpdateSessionManagementPolicyData

tags:

- SessionManagementPolicyData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:sm-data:modify

parameters:

- name: ueId

in: path

required: true

schema:

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

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'204':

description: >

Successful case. The resource has been successfully updated and no

additional content is to be sent in the response message.

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

'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'

/policy-data/ues/{ueId}/sm-data/{usageMonId}:

get:

summary: Retrieve a usage monitoring resource

operationId: ReadUsageMonitoringInformation

tags:

- UsageMonitoringInformation (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:sm-data:read

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: usageMonId

in: path

required: true

schema:

type: string

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: Successful case. The usage monitoring data is returned.

content:

application/json:

schema:

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

'204':

description: The resource was found but no usage monitoring data is available.

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'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'

put:

summary: Create a usage monitoring resource

operationId: CreateUsageMonitoringResource

tags:

- UsageMonitoringInformation (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:sm-data:create

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: usageMonId

in: path

required: true

schema:

type: string

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: >

Successful case. The resource has been successfully created and a response body is

returned containing a representation of the resource.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource'

required: true

schema:

type: string

'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'

'411':

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

'413':

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

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'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'

delete:

summary: Delete a usage monitoring resource

operationId: DeleteUsageMonitoringInformation

tags:

- UsageMonitoringInformation (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:sm-data:modify

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: usageMonId

in: path

required: true

schema:

type: string

responses:

'204':

description: Successful case. The resource has been successfully deleted.

'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'

'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'

/policy-data/sponsor-connectivity-data/{sponsorId}:

parameters:

- name: sponsorId

in: path

required: true

schema:

type: string

get:

summary: Retrieves the sponsored connectivity information for a given sponsorId

operationId: ReadSponsorConnectivityData

tags:

- SponsorConnectivityData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:sponsor-connectivity-data:read

parameters:

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: >

Upon success, a response body containing Sponsor Connectivity Data shall be returned.

content:

application/json:

schema:

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

'204':

description: The resource was found but no Sponsor Connectivity Data is available.

'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:

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

/policy-data/bdt-data:

get:

summary: Retrieves the BDT data collection

operationId: ReadBdtData

tags:

- BdtData (Store)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:bdt-data:read

parameters:

- name: bdt-ref-ids

in: query

description: List of the BDT reference identifiers.

required: false

schema:

type: array

items:

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

minItems: 1

style: form

explode: false

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: Upon success, a response body containing the BDT data shall be returned.

content:

application/json:

schema:

type: array

items:

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

'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:

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

/policy-data/bdt-data/{bdtReferenceId}:

parameters:

- name: bdtReferenceId

in: path

required: true

schema:

type: string

get:

summary: Retrieves the BDT data information associated with a BDT reference Id

operationId: ReadIndividualBdtData

tags:

- IndividualBdtData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:bdt-data:read

parameters:

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: Upon success, a response body containing the BDT data shall be returned.

content:

application/json:

schema:

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

'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:

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

put:

summary: Creates an BDT data resource associated with an BDT reference Id

operationId: CreateIndividualBdtData

tags:

- IndividualBdtData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:bdt-data:create

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Successful case. The resource has been successfully created.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource'

required: true

schema:

type: string

'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'

'411':

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

'413':

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

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'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'

patch:

summary: Modifies an BDT data resource associated with an BDT reference Id

operationId: UpdateIndividualBdtData

tags:

- IndividualBdtData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:bdt-data:modify

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'204':

description: >

Successful case. The resource has been successfully updated and no additional content

is to be sent in the response message.

'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'

'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'

delete:

summary: Deletes an BDT data resource associated with an BDT reference Id

operationId: DeleteIndividualBdtData

tags:

- IndividualBdtData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:bdt-data:modify

responses:

'204':

description: Successful case. The resource has been successfully deleted.

'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'

'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'

/policy-data/subs-to-notify:

get:

summary: Retrieves the list of Individual Policy Data Subscription resources

operationId: ReadPolicyDataSubscriptions

tags:

- PolicyDataSubscriptions (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:subs-to-notify:read

parameters:

- name: mon-resources

in: query

style: form

explode: false

description: List of monitored resources whose subscriptions are requested.

required: false

schema:

type: array

items:

type: string

description: Contains the apiSpecificResourceUriPart of the resource URI.

minItems: 1

- name: ue-id

in: query

description: Represents the Subscription Identifier SUPI or GPSI.

required: false

schema:

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

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: >

Upon success, a response body containing a list of Individual Policy Data

Subscription resources shall be returned.

content:

application/json:

schema:

type: array

items:

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

'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'

'503':

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

default:

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

post:

summary: Create a subscription to receive notification of policy data changes

operationId: CreateIndividualPolicyDataSubscription

tags:

- PolicyDataSubscriptions (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data:subs-to-notify

- nudr-dr:policy-data:subs-to-notify:create

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: >

Upon success, a response body containing a representation of each Individual

subscription resource shall be returned.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource'

required: true

schema:

type: string

'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'

'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'

callbacks:

policyDataChangeNotification:

'{$request.body#/notificationUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

type: array

items:

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

minItems: 1

responses:

'204':

description: No Content, Notification was successful

'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'

'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'

/policy-data/subs-to-notify/{subsId}:

parameters:

- name: subsId

in: path

required: true

schema:

type: string

get:

summary: Retrieves Individual Policy Subscription data

operationId: ReadIndividualPolicySubscriptionData

tags:

- IndividualPolicySubscriptionData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:subs-to-notify:read

responses:

'200':

description: >

Upon success, a response body containing Policy Data Subscription shall be returned.

content:

application/json:

schema:

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

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'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'

put:

summary: Modify a subscription to receive notification of policy data changes

operationId: ReplaceIndividualPolicyDataSubscription

tags:

- IndividualPolicyDataSubscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:subs-to-notify:modify

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: The individual subscription resource was updated successfully.

content:

application/json:

schema:

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

'204':

description: >

The individual subscription resource was updated successfully and no

additional content is to be sent in the response message.

'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'

'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'

delete:

summary: Delete the individual Policy Data subscription

operationId: DeleteIndividualPolicyDataSubscription

tags:

- IndividualPolicyDataSubscription (Document)

responses:

'204':

description: Upon success, an empty response body shall be returned.

'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'

'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'

/policy-data/ues/{ueId}/operator-specific-data:

get:

summary: Retrieve the operator specific policy data of an UE

operationId: ReadOperatorSpecificData

tags:

- OperatorSpecificData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:operator-specific-data:read

parameters:

- name: ueId

in: path

description: UE Id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: object

additionalProperties:

$ref: 'TS29505\_Subscription\_Data.yaml#/components/schemas/OperatorSpecificDataContainer'

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'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 operator specific policy data of a UE

operationId: UpdateOperatorSpecificData

tags:

- OperatorSpecificData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:operator-specific-data:modify

parameters:

- name: ueId

in: path

description: UE Id

required: true

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: No content. Response to successful modification.

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

'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'

put:

summary: Create or modify the operator specific policy data of a UE

operationId: ReplaceOperatorSpecificData

tags:

- OperatorSpecificData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:operator-specific-data:create

parameters:

- name: ueId

in: path

description: UE Id

required: true

schema:

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

requestBody:

required: true

content:

application/json:

schema:

type: object

additionalProperties:

$ref: 'TS29505\_Subscription\_Data.yaml#/components/schemas/OperatorSpecificDataContainer'

responses:

'200':

description: OK

content:

application/json:

schema:

type: object

additionalProperties:

$ref: 'TS29505\_Subscription\_Data.yaml#/components/schemas/OperatorSpecificDataContainer'

'201':

description: >

Successful case. When the feature OSDResource\_Create\_Delete is supported

and the resource has been successfully created, a response body containing a

representation of the created OperatorSpecificData resource shall be returned.

content:

application/json:

schema:

type: object

additionalProperties:

$ref: 'TS29505\_Subscription\_Data.yaml#/components/schemas/OperatorSpecificDataContainer'

headers:

Location:

description: 'Contains the URI of the newly created resource'

required: true

schema:

type: string

'204':

description: The resource has been successfully updated.

'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'

'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'

delete:

summary: When the feature OSDResource\_Create\_Delete is supported, delete OperatorSpecificData resource

operationId: DeleteOperatorSpecificData

tags:

- OperatorSpecificData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:ues:operator-specific-data:modify

parameters:

- name: ueId

in: path

required: true

schema:

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

responses:

'204':

description: Successful case. The resource has been successfully deleted.

'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'

'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'

/policy-data/plmns/{plmnId}/ue-policy-set:

parameters:

- name: plmnId

in: path

required: true

schema:

$ref: 'TS29505\_Subscription\_Data.yaml#/components/schemas/VarPlmnId'

get:

summary: Retrieve the UE policy set data for an H-PLMN

operationId: ReadPlmnUePolicySet

tags:

- PlmnUePolicySet (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:plmns:ue-policy-set:read

parameters:

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: Upon success, a response body containing UE policies shall be returned.

content:

application/json:

schema:

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

'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'

'412':

$ref: 'TS29571\_CommonData.yaml#/components/responses/412'

'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'

/policy-data/slice-control-data/{snssai}:

parameters:

- name: snssai

in: path

required: true

schema:

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

get:

summary: Retrieves a network Slice specific policy control data resource

operationId: ReadSlicePolicyControlData

tags:

- SlicePolicyControlData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:slice-control-data:read

parameters:

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: >

Successful case. The network slice specific policy control data shall be returned.

content:

application/json:

schema:

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

'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:

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

patch:

summary: Modify a network Slice specific policy control data resource

operationId: UpdateSlicePolicyControlData

tags:

- SlicePolicyControlData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:slice-control-data:modify

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: >

The resource has been successfully updated and a response body containing network

slice specific policy control data shall be returned.

content:

application/json:

schema:

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

'204':

description: >

The resource has been successfully updated and no additional content is

to be sent in the response message.

'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'

'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'

/policy-data/mbs-session-pol-data/{polSessionId}:

parameters:

- name: polSessionId

description: >

Represents the identifier of the MBS Session Policy Control Data.

in: path

required: true

schema:

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

get:

summary: Retrieve MBS Session Policy Control Data for an MBS Session.

operationId: GetMBSSessPolCtrlData

tags:

- MBSSessionPolicyControlData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:mbs-session-pol-data:read

responses:

'200':

description: >

OK. The requested MBS Session Policy Control Data is successfully returned.

content:

application/json:

schema:

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

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'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'

/policy-data/pdtq-data:

get:

summary: Retrieves the PDTQ data collection

operationId: ReadPdtqData

tags:

- PdtqData (Store)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:pdtq-data:read

parameters:

- name: pdtq-ref-ids

in: query

description: List of the PDTQ reference identifiers.

required: false

schema:

type: array

items:

$ref: 'TS29543\_Npcf\_PDTQPolicyControl.yaml#/components/schemas/PdtqReferenceId'

minItems: 1

style: form

explode: false

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: Upon success, a response body containing the PDTQ data shall be returned.

content:

application/json:

schema:

type: array

items:

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

'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:

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

/policy-data/pdtq-data/{pdtqReferenceId}:

parameters:

- name: pdtqReferenceId

in: path

required: true

schema:

type: string

get:

summary: Retrieves the PDTQ data information associated with a PDTQ reference Id

operationId: ReadIndividualPdtqData

tags:

- IndividualPdtqData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:pdtq-data:read

parameters:

- name: supp-feat

in: query

description: Supported Features

required: false

schema:

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

responses:

'200':

description: Upon success, a response body containing the PDTQ data shall be returned.

content:

application/json:

schema:

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

'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:

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

put:

summary: Creates a PDTQ data resource associated with a PDTQ reference Id

operationId: CreateIndividualPdtqData

tags:

- IndividualPdtqData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:pdtq-data:create

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Successful case. The resource has been successfully created.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource'

required: true

schema:

type: string

'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'

'411':

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

'413':

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

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'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'

patch:

summary: Modifies a PDTQ data resource associated with a PDTQ reference Id

operationId: UpdateIndividualPdtqData

tags:

- IndividualPdtqData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:pdtq-data:modify

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'204':

description: >

Successful case. The resource has been successfully updated and no additional content

is to be sent in the response message.

'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'

'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'

delete:

summary: Deletes a PDTQ data resource associated with a PDTQ reference Id

operationId: DeleteIndividualPdtqData

tags:

- IndividualPdtqData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:pdtq-data:modify

responses:

'204':

description: Successful case. The resource has been successfully deleted.

'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'

'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'

/policy-data/group-control-data/{intGroupId}:

parameters:

- name: intGroupId

in: path

required: true

schema:

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

get:

summary: Retrieves a group specific policy control subscription data resource

operationId: ReadGroupPolCtrlData

tags:

- GroupPolicyControlData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:group-control-data:read

parameters:

- name: supp-feat

in: query

description: Represents the supported features.

required: false

schema:

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

responses:

'200':

description: >

Successful case. The requested group specific policy control subscription data shall be

returned.

content:

application/json:

schema:

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

'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'

'503':

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

default:

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

patch:

summary: Modify an existing group specific policy control subscription data resource.

operationId: ModifyGroupPolCtrlData

tags:

- GroupPolicyControlData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:policy-data

- nudr-dr:policy-data:group-control-data:modify

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: >

The resource has been successfully modified and a response body containing the updated

group specific policy control subscription data shall be returned.

content:

application/json:

schema:

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

'204':

description: >

The resource has been successfully modified and no additional content is to be sent in

the response body.

'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'

'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'

'503':

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

default:

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

components:

schemas:

PolicyDataForIndividualUe:

description: Contains policy data for a given subscriber.

type: object

properties:

uePolicyDataSet:

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

smPolicyDataSet:

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

amPolicyDataSet:

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

umData:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains UM policies. The value of the limit identifier is used as the key of the map.

operatorSpecificDataSet:

type: object

additionalProperties:

$ref: 'TS29505\_Subscription\_Data.yaml#/components/schemas/OperatorSpecificDataContainer'

minProperties: 1

description: >

Contains Operator Specific Data resource data. The key of the map is operator

specific data element name and the value is the operator specific data of the UE.

suppFeat:

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

AmPolicyData:

description: Contains the AM policy data for a given subscriber.

type: object

properties:

praInfos:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains Presence reporting area information. The praId attribute within the

PresenceInfo data type is the key of the map.

subscCats:

type: array

items:

type: string

minItems: 1

chfInfo:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/ChargingInformation'

subscSpendingLimits:

type: boolean

description: >

Indicates whether the PCF must enforce Access and Mobility management related

policies based on subscriber spending limits.

spendLimInfo:

type: object

additionalProperties:

$ref: 'TS29594\_Nchf\_SpendingLimitControl.yaml#/components/schemas/PolicyCounterInfo'

minProperties: 1

description: >

Contains the status of the requested policy counters for UE.

The key of the map is the attribute policyCounterId.

suppFeat:

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

UePolicySet:

description: Contains the UE policy data for a given subscriber.

type: object

properties:

praInfos:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains Presence reporting area information. The praId attribute within the

PresenceInfo data type is the key of the map.

subscCats:

type: array

items:

type: string

minItems: 1

uePolicySections:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains the UE Policy Sections. The UE Policy Section Identifier is used as

the key of the map.

upsis:

type: array

items:

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

minItems: 1

allowedRouteSelDescs:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains allowed route selection descriptors per serving PLMN for a UE.

The serving PLMN identifier is the key of the map.

andspInd:

type: boolean

epsUrspInd:

type: boolean

description: Indication of UE supporting URSP provisioning in EPS.

vpsUrspInd:

type: boolean

description: Indication of UE supporting VPLMN-specific URSP.

urspEnfInd:

type: boolean

description: Indication of UE supporting URSP enforcement report.

pei:

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

osIds:

type: array

items:

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

minItems: 1

chfInfo:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/ChargingInformation'

subscSpendingLimits:

type: boolean

description: >

Indicates whether the PCF must enforce UE policies based on subscriber spending limits.

spendLimInfo:

type: object

additionalProperties:

$ref: 'TS29594\_Nchf\_SpendingLimitControl.yaml#/components/schemas/PolicyCounterInfo'

minProperties: 1

description: >

Contains the status of the requested policy counters for UE.

The key of the map is the attribute policyCounterId.

tracingReq:

type: array

items:

type: string

minItems: 1

description: >

Tracing requirements as defined in TS 32.421 [26]

suppFeat:

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

resetIds:

type: array

items:

type: string

minItems: 1

UePolicySetPatch:

description: Contains the UE policy set for a given subscriber.

type: object

properties:

uePolicySections:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains the UE Policy Sections. The UE Policy Section Identifier is used

as the key of the map.

upsis:

type: array

items:

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

minItems: 1

andspInd:

type: boolean

epsUrspInd:

type: boolean

description: Indication of UE supporting URSP provisioning in EPS.

vpsUrspInd:

type: boolean

description: Indication of UE supporting VPLMN-specific URSP.

urspEnfInd:

type: boolean

description: Indication of UE supporting URSP enforcement report.

pei:

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

osIds:

type: array

items:

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

minItems: 1

UePolicySection:

description: Contains the UE policy section.

type: object

properties:

uePolicySectionInfo:

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

upsi:

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

required:

- uePolicySectionInfo

- upsi

SmPolicyData:

description: Contains the SM policy data for a given subscriber.

type: object

properties:

smPolicySnssaiData:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains Session Management Policy data per S-NSSAI for all the SNSSAIs

of the subscriber. The key of the map is the S-NSSAI.

umDataLimits:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains a list of usage monitoring profiles associated with the subscriber.

The limit identifier is used as the key of the map.

umData:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains the remaining allowed usage data associated with the subscriber.

The limit identifier is used as the key of the map.

suppFeat:

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

required:

- smPolicySnssaiData

SmPolicySnssaiData:

description: Contains the SM policy data for a given subscriber and S-NSSAI.

type: object

properties:

snssai:

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

smPolicyDnnData:

type: object

additionalProperties:

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

minProperties: 1

description: >

Session Management Policy data per DNN for all the DNNs of the indicated S-NSSAI.

The key of the map is the DNN.

ueSliceMbr:

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

required:

- snssai

SmPolicyDnnData:

description: Contains the SM policy data for a given DNN (and S-NSSAI).

type: object

properties:

dnn:

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

allowedServices:

type: array

items:

type: string

minItems: 1

subscCats:

type: array

items:

type: string

minItems: 1

gbrUl:

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

gbrDl:

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

adcSupport:

type: boolean

subscSpendingLimits:

type: boolean

description: >

Indicates whether the PCF must enforce session management related policies based

on subscriber spending limits.

spendLimInfo:

type: object

additionalProperties:

$ref: 'TS29594\_Nchf\_SpendingLimitControl.yaml#/components/schemas/PolicyCounterInfo'

minProperties: 1

description: >

Contains the status of the requested policy counters for the PDU session.

The key of the map is the attribute policyCounterId.

ipv4Index:

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

ipv6Index:

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

offline:

type: boolean

online:

type: boolean

chfInfo:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/ChargingInformation'

refUmDataLimitIds:

type: object

additionalProperties:

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

minProperties: 1

description: >

A reference to the UsageMonDataLimit or UsageMonData instances for this DNN and SNSSAI

that may also include the related monitoring key(s).

The key of the map is the limit identifier.

mpsPriority:

type: boolean

mcsPriority:

type: boolean

imsSignallingPrio:

type: boolean

mpsPriorityLevel:

type: integer

mcsPriorityLevel:

type: integer

praInfos:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains Presence reporting area information. The praId attribute within the

PresenceInfo data type is the key of the map.

bdtRefIds:

type: object

additionalProperties:

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

minProperties: 1

description: >

Identifies transfer policies of background data transfer. Any string value can

be used as a key of the map.

nullable: true

locRoutNotAllowed:

type: boolean

sfcNotAllowed:

type: boolean

tnaps:

type: array

items:

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

minItems: 1

description: Contains the TNAP IDs collocated with the 5G-RG(s) of a specific user.

required:

- dnn

UsageMonDataLimit:

description: Contains usage monitoring control data for a subscriber.

type: object

properties:

limitId:

type: string

scopes:

type: object

additionalProperties:

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

minProperties: 1

description: >

Identifies the SNSSAI and DNN combinations to which the usage monitoring data

limit applies. The S-NSSAI is the key of the map.

umLevel:

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

startDate:

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

endDate:

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

usageLimit:

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

resetPeriod:

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

required:

- limitId

UsageMonData:

description: Contains remain allowed usage data for a subscriber.

type: object

properties:

limitId:

type: string

scopes:

type: object

additionalProperties:

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

minProperties: 1

description: >

Identifies the SNSSAI and DNN combinations for remain allowed usage data

for a subscriber. The S-NSSAI is the key of the map.

umLevel:

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

allowedUsage:

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

resetTime:

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

suppFeat:

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

resetIds:

type: array

items:

type: string

minItems: 1

required:

- limitId

LimitIdToMonitoringKey:

description: >

Contains the limit identifier and the corresponding monitoring key for a given

S-NSSAI and DNN.

type: object

properties:

limitId:

type: string

monkey:

type: array

items:

type: string

minItems: 1

required:

- limitId

nullable: true

UsageMonDataScope:

description: >

Contains a SNSSAI and DNN combinations to which the UsageMonData instance belongs to.

type: object

properties:

snssai:

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

dnn:

type: array

items:

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

minItems: 1

required:

- snssai

TimePeriod:

description: Contains the periodicity for the defined usage monitoring data limits.

type: object

properties:

period:

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

maxNumPeriod:

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

required:

- period

SponsorConnectivityData:

description: >

Contains the sponsored data connectivity related information for a sponsor identifier.

type: object

properties:

aspIds:

type: array

items:

type: string

suppFeat:

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

required:

- aspIds

BdtData:

description: Contains the background data transfer data.

type: object

properties:

aspId:

type: string

transPolicy:

$ref: 'TS29554\_Npcf\_BDTPolicyControl.yaml#/components/schemas/TransferPolicy'

bdtRefId:

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

nwAreaInfo:

$ref: 'TS29554\_Npcf\_BDTPolicyControl.yaml#/components/schemas/NetworkAreaInfo'

numOfUes:

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

volPerUe:

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

dnn:

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

snssai:

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

trafficDes:

$ref: 'TS29122\_ResourceManagementOfBdt.yaml#/components/schemas/TrafficDescriptor'

bdtpStatus:

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

warnNotifEnabled:

type: boolean

description: >

Indicates whether the BDT warning notification is enabled (true) or not (false).

Default value is false.

notifUri:

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

suppFeat:

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

resetIds:

type: array

items:

type: string

minItems: 1

required:

- aspId

- transPolicy

PolicyDataSubscription:

description: Identifies a subscription to policy data change notification.

type: object

properties:

notificationUri:

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

notifId:

type: string

monitoredResourceUris:

type: array

items:

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

monResItems:

type: array

items:

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

minItems: 1

excludedResItems:

type: array

items:

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

minItems: 1

immRep:

type: boolean

description: >

If provided and set to true, it indicates that existing entries that

match this subscription shall be immediately reported in the response.

immReports:

type: array

items:

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

minItems: 1

description: Immediate report with existing UDR entries.

expiry:

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

supportedFeatures:

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

resetIds:

type: array

items:

type: string

minItems: 1

subsId:

type: string

required:

- notificationUri

- monitoredResourceUris

PolicyDataChangeNotification:

description: Contains changed policy data for which notification was requested.

type: object

properties:

amPolicyData:

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

uePolicySet:

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

plmnUePolicySet:

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

smPolicyData:

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

usageMonData:

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

SponsorConnectivityData:

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

bdtData:

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

opSpecData:

$ref: 'TS29505\_Subscription\_Data.yaml#/components/schemas/OperatorSpecificDataContainer'

opSpecDataMap:

type: object

additionalProperties:

$ref: 'TS29505\_Subscription\_Data.yaml#/components/schemas/OperatorSpecificDataContainer'

minProperties: 1

description: >

Operator Specific Data resource data, if changed and notification was requested.

The key of the map is operator specific data element name and the value is the

operator specific data of the UE.

ueId:

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

sponsorId:

type: string

bdtRefId:

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

usageMonId:

type: string

plmnId:

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

delResources:

type: array

items:

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

minItems: 1

notifId:

type: string

reportedFragments:

type: array

items:

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

minItems: 1

slicePolicyData:

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

snssai:

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

pdtqData:

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

pdtqRefId:

$ref: 'TS29543\_Npcf\_PDTQPolicyControl.yaml#/components/schemas/PdtqReferenceId'

groupPolicyData:

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

intGroupId:

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

PlmnRouteSelectionDescriptor:

description: >

Contains the route selection descriptors (combinations of SNSSAI, DNNs, PDU session types,

SSC modes and ATSSS information) allowed by subscription to the UE for a serving PLMN

type: object

properties:

servingPlmn:

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

snssaiRouteSelDescs:

type: array

items:

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

minItems: 1

required:

- servingPlmn

SnssaiRouteSelectionDescriptor:

description: >

Contains the route selector parameters (DNNs, PDU session types, SSC modes and ATSSS

information) per SNSSAI

type: object

properties:

snssai:

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

dnnRouteSelDescs:

type: array

items:

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

minItems: 1

required:

- snssai

DnnRouteSelectionDescriptor:

description: >

Contains the route selector parameters (PDU session types, SSC modes and ATSSS

information) per DNN

type: object

properties:

dnn:

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

sscModes:

type: array

items:

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

minItems: 1

pduSessTypes:

type: array

items:

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

minItems: 1

atsssInfo:

description: >

Indicates whether MA PDU session establishment is allowed for this DNN.

When set to value true MA PDU session establishment is allowed for this DNN.

type: boolean

default: false

lboRoamAllowed:

type: boolean

description: >

Indicates whether LBO for the DNN and S-NSSAI is allowed when roaming.

required:

- dnn

SmPolicyDataPatch:

description: Contains the SM policy data for a given subscriber.

type: object

properties:

umData:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains the remaining allowed usage data associated with the subscriber.

The value of the limit identifier is used as the key of the map.

nullable: true

smPolicySnssaiData:

type: object

additionalProperties:

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

minProperties: 1

description: >

Modifiable Session Management Policy data per S-NSSAI for all the SNSSAIs

of the subscriber. The key of the map is the S-NSSAI.

SmPolicySnssaiDataPatch:

description: Contains the SM policy data for a given subscriber and S-NSSAI.

type: object

properties:

snssai:

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

smPolicyDnnData:

type: object

additionalProperties:

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

minProperties: 1

description: >

Modifiable Session Management Policy data per DNN for all the DNNs of the

indicated S-NSSAI. The key of the map is the DNN.

required:

- snssai

SmPolicyDnnDataPatch:

description: Contains the SM policy data for a given DNN (and S-NSSAI).

type: object

properties:

dnn:

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

bdtRefIds:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains updated transfer policies of background data transfer.

Any string value can be used as a key of the map.

nullable: true

required:

- dnn

ResourceItem:

description: >

Identifies a subscription to policy data change notification when the change occurs

in a fragment (subset of resource data) of a given resource.

type: object

properties:

monResourceUri:

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

items:

type: array

items:

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

minItems: 1

required:

- monResourceUri

- items

NotificationItem:

description: >

Identifies a data change notification when the change occurs in a fragment

(subset of resource data) of a given resource.

type: object

properties:

resourceId:

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

notifItems:

type: array

items:

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

minItems: 1

required:

- resourceId

- notifItems

UpdatedItem:

description: Identifies a fragment of a resource.

type: object

properties:

item:

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

value: {}

required:

- item

- value

BdtDataPatch:

description: Contains the modified background data transfer data.

type: object

properties:

transPolicy:

$ref: 'TS29554\_Npcf\_BDTPolicyControl.yaml#/components/schemas/TransferPolicy'

bdtpStatus:

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

warnNotifEnabled:

type: boolean

description: >

Indicates whether the BDT warning notification is enabled (true) or not (false).

SlicePolicyData:

description: Contains the network slice specific policy control information.

type: object

properties:

mbrUl:

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

mbrDl:

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

remainMbrUl:

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

remainMbrDl:

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

suppFeat:

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

SlicePolicyDataPatch:

description: Contains the modified network slice specific policy control information.

type: object

properties:

remainMbrUl:

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

remainMbrDl:

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

oneOf:

- required: [remainMbrUl]

- required: [remainMbrDl]

MbsSessPolCtrlData:

description: Represents MBS Session Policy Control Data.

type: object

properties:

5qis:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/5Qi'

minItems: 1

maxMbsArpLevel:

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

maxMbsSessionAmbr:

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

maxGbr:

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

suppFeat:

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

MbsSessPolDataId:

description: Represents the identifier used to access the MBS Session Policy Control Data.

type: object

properties:

mbsSessionId:

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

afAppId:

type: string

oneOf:

- required: [mbsSessionId]

- required: [afAppId]

PdtqData:

description: Contains the planned data transfer data with QoS requirements.

type: object

properties:

aspId:

type: string

pdtqPolicy:

$ref: 'TS29543\_Npcf\_PDTQPolicyControl.yaml#/components/schemas/PdtqPolicy'

appId:

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

pdtqRefId:

$ref: 'TS29543\_Npcf\_PDTQPolicyControl.yaml#/components/schemas/PdtqReferenceId'

nwAreaInfo:

$ref: 'TS29554\_Npcf\_BDTPolicyControl.yaml#/components/schemas/NetworkAreaInfo'

numOfUes:

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

desTimeInts:

type: array

items:

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

minItems: 1

description: Identifies the time interval(s).

dnn:

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

snssai:

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

altQosParamSets:

type: array

items:

$ref: 'TS29543\_Npcf\_PDTQPolicyControl.yaml#/components/schemas/AltQosParamSet'

minItems: 1

description: >

Contains the alternative QoS requirements as a list of individual QoS parameter

sets in a prioritized order.

altQosRefs:

type: array

items:

type: string

minItems: 1

description: >

Contains the alternative QoS requirements as the list of QoS references in a

prioritized order.

qosParamSet:

$ref: 'TS29543\_Npcf\_PDTQPolicyControl.yaml#/components/schemas/QosParameterSet'

qosReference:

type: string

description: >

Requested QoS requirements expressed as the QoS Reference which represents

a pre-defined QoS information.

notifUri:

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

warnNotifEnabled:

type: boolean

description: >

Indicates whether the PDTQ warning notification is enabled (true) or not (false).

Default value is false.

suppFeat:

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

resetIds:

type: array

items:

type: string

minItems: 1

required:

- aspId

- pdtqPolicy

PdtqDataPatch:

description: Contains the modified planned data transfer data with QoS requirements.

type: object

properties:

pdtqPolicy:

$ref: 'TS29543\_Npcf\_PDTQPolicyControl.yaml#/components/schemas/PdtqPolicy'

warnNotifEnabled:

type: boolean

description: >

Indicates whether the PDTQ warning notification is enabled (true) or not (false).

notifUri:

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

GroupPolicyData:

description: Contains the group specific policy control subscription information.

type: object

properties:

maxGroupMbrUl:

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

maxGroupMbrDl:

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

remainGroupMbrUl:

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

remainGroupMbrDl:

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

suppFeat:

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

GroupPolicyDataPatch:

description: >

Contains the requested modification to the group specific policy control subscription

data.

type: object

properties:

maxGroupMbrUl:

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

maxGroupMbrDl:

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

remainGroupMbrUl:

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

remainGroupMbrDl:

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

anyOf:

- required: [maxGroupMbrUl]

- required: [maxGroupMbrDl]

- required: [remainGroupMbrUl]

- required: [remainGroupMbrDl]

# SIMPLE TYPES:

IpIndex:

description: >

Represents information that identifies which IP pool or external server

is used to allocate the IP address.

type: integer

OsId:

description: Represents the Operating System of the served UE.

type: string

format: uuid

ItemPath:

description: Identifies a fragment (subset of resource data) of a given resource.

type: string

BdtReferenceIdRm:

type: string

description: >

This data type is defined in the same way as the BdtReferenceId data type defined in

3GPP TS 29.122, but with the nullable property set to true.

nullable: true

Upsi:

type: string

description: >

Identifier for UE Policy Section as defined in clause D.1.1of 3GPP TS 24.501 [11].

It contains the MCC+MNC (of the SUPI) as in Figure D.6.2.3 and the UPSC as in

Figure D.6.2.5 of clause D.6.2 of 3GPP TS 24.501[11] encoded as a string with

format "byte" as defined in OpenAPI Specification [3], i.e. base64-encoded characters.

# ENUMS:

UsageMonLevel:

description: Represents the usage monitoring level.

anyOf:

- type: string

enum:

- SESSION\_LEVEL

- SERVICE\_LEVEL

- type: string

description: >

This string provides forward-compatibility with future extensions to the enumeration

and is not used to encode content defined in the present version of this API.

Periodicity:

description: Represents the time period.

anyOf:

- type: string

enum:

- YEARLY

- MONTHLY

- WEEKLY

- DAILY

- HOURLY

- type: string

description: >

This string provides forward-compatibility with future extensions to the enumeration

and is not used to encode content defined in the present version of this API.

BdtPolicyStatus:

description: Indicates the validation status of a negotiated BDT policy.

anyOf:

- type: string

enum:

- INVALID

- VALID

- type: string

description: >

This string provides forward-compatibility with future extensions to the enumeration

and is not used to encode content defined in the present version of this API.

PolicyDataSubset:

description: Indicates a policy data subset.

anyOf:

- type: string

enum:

- AM\_POLICY\_DATA

- SM\_POLICY\_DATA

- UE\_POLICY\_DATA

- UM\_DATA

- OPERATOR\_SPECIFIC\_DATA

- type: string

description: >

This string provides forward-compatibility with future extensions to the enumeration

and is not used to encode content defined in the present version of this API.

\* \* \* \* End of change \* \* \* \*