**3GPP TSG-CT WG3 Meeting #134 *C3-242298***

**Changsha, China, 15 - 19 April, 2024 *(Revision of C3-242xxx)***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.519** | **CR** | **0505** | **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:*** | Support of subscriber spending limits information modify in AM policy data | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, Nokia, China Telecom, Oracle | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI18\_SLAMUP, eNA\_Ph3 | | | | |  | ***Date:*** | | | 2024-03-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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:*** | | In the current specification, the AM policy data only support to be retrieved, not modified. While, SA2 clarifies that e.g., the subscriber spending limits information stored in the AM related policy information may need to be update from the AM policy.  Hence, the resource of AccessAndMobilityPolicyData needs to be supported of modify for consistency. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Complete the resource information and data structure to support the AM policy data update. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incomplete specification about AM Policy data modification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.2.2, 5.2.3.3.2(new), 5.4.1, 5.4.2.2A(new), 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 introduces a backward compatible feature to the Nudr\_DataRepository API for Policy Data. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

### 5.2.2 Resource Structure

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

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



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

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

Table 5.2.2-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| PolicyDataForIndividualUe | /policy-data/ues/{ueId} | GET | Retrieve multiple policy data sets (access and mobility policy data, UE policy set data, session management policy data, usage monitoring data, operator specific policy data) for a subscriber. |
| AccessAndMobilityPolicyData | /policy-data/ues/{ueId}/ am-data | GET | Retrieve the access and mobility policy data for a subscriber. |
| PATCH | When the feature "AccessAndMobilityPolicyDataModify" is supported, modify the access and mobility policy data for a subscriber. |
| UEPolicySet | /policy-data/ues/{ueId}/ ue-policy-set | GET | Retrieve the UE policy set data for a subscriber. |
| PUT | Create or modify the UE policy set data for a subscriber. |
| PATCH | Modify the UE policy set data for a subscriber. |
| SessionManagementPolicyData | /policy-data/ues/{ueId}/ sm-data | GET | Retrieve the session management policy data for a subscriber. |
| PATCH | When the feature "SessionManagementPolicyDataPatch" is supported, modify the session management policy data for a subscriber. |
| UsageMonitoringInformation | /policy-data/ues/{ueId}/ sm-data/{usageMonId} | GET | Retrieve a usage monitoring resource. |
| PUT | Create a usage monitoring resource. |
| DELETE | Delete a usage monitoring resource. |
| OperatorSpecificData | /policy-data/ues/{ueId}/ operator-specific-data | GET | Retrieve the operator specific policy data of a UE |
| PATCH | Modify the operator specific policy data of a UE. |
| PUT | Create or modify the operator specific policy data of a UE. |
| DELETE | Delete the operator specific policy data for a UE. |
| SponsorConnectivityData | /policy-data/sponsor-connectivity-data/{sponsorId} | GET | Retrieve the sponsored connectivity information for a given sponsorId. |
| BdtData | /policy-data/bdt-data | GET | Retrieve the BDT data collection. |
| IndividualBdtData | /policy-data/bdt-data/ {bdtReferenceId} | GET | Retrieve the BDT data information associated with a BDT reference Id. |
| PUT | Create a BDT data resource associated with a BDT reference Id. |
| PATCH | Modifies an BDT data resource associated with an BDT reference Id. |
| DELETE | Delete a BDT data resource associated with a BDT reference Id. |
| PolicyDataSubscriptions | /policy-data/subs-to-notify | GET | Retrieve Individual Policy Data Subscriptions from the Policy Data Subscriptions collection. |
| POST | Create a subscription to receive notifications of policy data changes. |
| IndividualPolicyDataSubscription | /policy-data/subs-to-notify/ {subsId} | GET | Retrieve a subscription identified by {subsId}. |
| PUT | Modify a subscription to receive notifications of policy data changes. |
| DELETE | Delete a subscription identified by {subsId}. |
| PlmnUePolicySet | /policy-data/plmns/{plmnId}/ ue-policy-set | GET | Retrieve the UE policy set data for an H-PLMN. |
| SlicePolicyControlData | /policy-data/slice-control-data/{snssai} | GET | Retrieve network slice specific policy control data for a given S-NSSAI. |
| PATCH | Modify network slice specific policy control data for a given S-NSSAI. |
| MBSSessionPolicyControlData | /policy-data/mbs-session-pol-data/{polSessionId} | GET | Retrieve MBS Session Policy Control Data for an MBS Session based on the MBS Session Identifier or an AF Application Identifier. |
| PdtqData | /policy-data/pdtq-data | GET | Retrieve the PDTQ data collection. |
| IndividualPdtqData | /policy-data/pdtq-data/ {pdtqReferenceId} | GET | Retrieve the PDTQ data information associated with a PDTQ reference Id. |
| PUT | Create a PDTQ data resource associated with a PDTQ reference Id. |
| PATCH | Modifies a PDTQ data resource associated with an PDTQ reference Id. |
| DELETE | Delete a PDTQ data resource associated with a PDTQ reference Id. |
| GroupPolicyControlData | /policy-data/group-control-data/{intGroupId} | GET | Retrieve group specific policy control data for a 5G VN group. |
| PATCH | Modify group specific policy control data for a 5G VN group. |

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

##### 5.2.3.3.2 PATCH

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

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

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

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| AmPolicyDataPatch | M | 1 | When the "AccessAndMobilityPolicyDataModify" feature is supported, it requests the modification of the access and mobility policy data resource for a given subscriber. |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Successful case.  The resource has been successfully updated and no additional content is to be sent in the response message. |
| AmPolicyData | M | 1 | 200 OK | When the "AccessAndMobilityPolicyDataModify" feature is supported, upon success, the execution report is returned. (NOTE 1) (NOTE 2) |
| NOTE 1: The mandatory HTTP error status codes for the PATCH method listed in table 5.2.7.1-1 of 3GPP TS 29.500 [4] also apply.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; If some of the modification instructions in the PATCH request have been discarded, and the NF service consumer supported the "PatchReport" feature, the UDR shall respond with AmPolicyData. | | | | |

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

### 5.4.1 General

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

Table 5.4.1-1 specifies the data types defined for the Nudr\_DataRepository for Policy Data service based interface protocol.

Table 5.4.1-1: Nudr\_DataRepository specific Data Types for Policy Data

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| AmPolicyData | 5.4.2.2 | Contains the AM policy data for a given subscriber. |  |
| AmPolicyDataPatch | 5.4.2.2A | Contains the modifiable AM policy data for a subscriber. | AccessAndMobilityPolicyDataModify |
| BdtData | 5.4.2.9 | Contains the background data transfer data. |  |
| BdtDataPatch | 5.4.2.27 | Contains the modifiable background data transfer data |  |
| BdtPolicyStatus | 5.4.3.5 | Contains the validation status for a negotiated BDT policy. |  |
| DnnRouteSelectionDescriptor | 5.4.2.20 | Contains the route selector parameters per DNN. |  |
| ItemPath | 5.4.3.2 | Represents a fragment of a resource, i.e. a subset of resource data. | ConditionalSubscriptionwithPartialNotification |
| LimitIdToMonitoringKey | 5.4.2.16 | Contains the limit identifier and the corresponding monitoring key for a given S-NSSAI and DNN. |  |
| MbsSessPolCtrlData | 5.4.2.31 | Contains MBS Session Policy Control Data. |  |
| MbsSessPolDataId | 5.4.2.32 | Represents the identifier used to access the MBS Session Policy Control Data. |  |
| NotificationItem | 5.4.2.25 | Contains the list of resource fragments included in the notification triggered by the modification of a given resource fragment. | ConditionalSubscriptionwithPartialNotification |
| OsId | 5.4.3.2 | Operating System supported by the UE. |  |
| PdtqData | 5.4.2.33 | Contains the planned data transfer with QoS requirements data. |  |
| PdtqDataPatch | 5.4.2.34 | Contains the modifiable planned data transfer with QoS requirements data |  |
| Periodicity | 5.4.3.4 | Indicates a type of time period. |  |
| PlmnRouteSelectionDescriptor | 5.4.2.18 | Contains the route selectors for a serving PLMN. |  |
| PolicyDataChangeNotification | 5.4.2.11 | Contains changed policy data for which notification was requested. |  |
| PolicyDataForIndividualUe | 5.4.2.28 | Contains policy data sets for a given subscriber. |  |
| PolicyDataSubscription | 5.4.2.10 | Identifies a subscription to policy data change notification. |  |
| PolicyDataSubset | 5.4.3.6 | Indicates a policy data subset (e.g. AM policy data, SM policy data). |  |
| ResourceItem | 5.4.2.24 | Represents list of fragments of a resource, i.e. a list of subsets of resource data monitored for notification of data changes. | ConditionalSubscriptionwithPartialNotification |
| SlicePolicyData | 5.4.2.29 | Contains network slice specific policy control information for an S-NSSAI. |  |
| SlicePolicyDataPatch | 5.4.2.30 | Contains modifiable network slice specific policy control information for an S-NSSAI. |  |
| SmPolicyData | 5.4.2.5 | Contains SM policy data for a subscriber. |  |
| SmPolicyDataPatch | 5.4.2.21 | Contains modifiable SM policy data for a subscriber. | SessionManagementPolicyDataPatch |
| SmPolicyDnnData | 5.4.2.15 | Contains SM policy data for a DNN and S-NSSAI. |  |
| SmPolicyDnnDataPatch | 5.4.2.23 | Contains modifiable SM policy data for a DNN and S-NSSAI. | SessionManagementPolicyDataPatch |
| SmPolicySnssaiData | 5.4.2.14 | Contains SM policy data for an S-NSSAI. |  |
| SmPolicySnssaiDataPatch | 5.4.2.22 | Contains modifiable SM policy data for an S-NSSAI. | SessionManagementPolicyDataPatch |
| SnssaiRouteSelectionDescriptor | 5.4.2.19 | Contains the route selector parameters per SNSSAI. |  |
| SponsorConnectivityData | 5.4.2.8 | Contains the sponsored data connectivity related information for a sponsor identifier. |  |
| TimePeriod | 5.4.2.12 | Contains the periodicity for the defined usage monitoring data limits. |  |
| UePolicySetPatch | 5.4.2.17 | Contains the UE policy data that can be modified by the PCF. |  |
| UePolicySection | 5.4.2.3 | Contains the UE policy section. |  |
| UePolicySet | 5.4.2.4 | Contains the UE policy set for a given subscriber. |  |
| UpdatedItem | 5.4.2.26 | An updated resource fragment, represented by its location in a resource and its data type. | ConditionalSubscriptionwithPartialNotification |
| UsageMonLevel | 5.4.3.3 | Indicates the level of the usage monitoring instance (PDU Session level or per Service) |  |
| UsageMonData | 5.4.2.7 | Contains remain allowed usage data for a subscriber. |  |
| UsageMonDataLimit | 5.4.2.6 | Contains usage monitoring control data for a subscriber. |  |
| UsageMonDataScope | 5.4.2.13 | Contains SNSSAI and DNN combinations to which the UsageMonData instance belongs to. |  |

Table 5.4.1-2 specifies data types re-used by the Nudr\_DataRepository for Policy Data service based interface protocol from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the Nudr\_DataRepository for Policy Data service based interface.

Table 5.4.1-2: Nudr\_DataRepository re-used Data Types for Policy Data

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| 5Qi | 3GPP TS 29.571 [7] | Indicates the 5G QoS Identifier. |  |
| ApplicationId | 3GPP TS 29.571 [7] | Contains the application identifier. |  |
| ArpPriorityLevel | 3GPP TS 29.571 [7] | Indicates the allocation and retention priority level. |  |
| BdtReferenceId | 3GPP TS 29.122 [9] | Indicates the background data transfer reference ID for the transfer policy. |  |
| BitRate | 3GPP TS 29.571 [7] | String representing a bit rate that shall be formatted as follows:  pattern: "^\d+(\.\d+)? (bps|Kbps|Mbps|Gbps|Tbps)$"  Examples:  "125 Mbps", "0.125 Gbps", "125000 Kbps". |  |
| Bytes | 3GPP TS 29.571 [7] | String with format "byte" as defined in OpenAPI Specification [3], i.e., base64-encoded characters. |  |
| ChargingInformation | 3GPP TS 29.512 [12] | The address(es), and if available, the instance ID and the set ID of the Charging Function. |  |
| DateTime | 3GPP TS 29.571 [7] | String with format "date-time" as defined in OpenAPI Specification [3]. |  |
| Dnn | 3GPP TS 29.571 [7] | Data Network Name. (NOTE) |  |
| MbsSessionId | 3GPP TS 29.571 [7] | Contains the MBS Session Identifier. |  |
| Metadata | 3GPP TS 29.571 [7] | Contains opaque information for the service functions in the N6-LAN that is provided by AF and transparently sent to UPF. | SFC |
| NetworkAreaInfo | 3GPP TS 29.554 [13] | Represents a network area information. |  |
| OperatorSpecificDataContainer | 3GPP TS 29.505 [15] | Container for operator specific data |  |
| PatchResult | 3GPP TS 29.571 [7] |  |  |
| PatchItem | 3GPP TS 29.571 [7] | Data structure used for JSON patch. |  |
| PdtqPolicy | 3GPP TS 29.543 [25] | Represents a PDTQ policy. |  |
| PdtqReferenceId | 3GPP TS 29.543 [25] | Indicates the planned data transfer with QoS requirements reference ID for the PDTQ policy. |  |
| PduSessionType | 3GPP TS 29.571 [7] | PDU Session Type. |  |
| Pei | 3GPP TS 29.571 [7] | Personal Equipment Identifier. |  |
| PlmnId | 3GPP TS 29.571 [7] | PLMN Identity. |  |
| PresenceInfo | 3GPP TS 29.571 [7] | Presence Reporting Area Information. |  |
| PolicyCounterInfo | 3GPP TS 29.594 [28] | Identifies the policy counter status. | SLAMUP |
| ProblemDetails | 3GPP TS 29.571 [7] | Used in error responses to provide more detailed information about an error. |  |
| SliceMbr | 3GPP TS 29.571 [7] | Contains the slice Maximum Bit Rate including UL and DL. | NSAC |
| Snssai | 3GPP TS 29.571 [7] | Identifies the S-NSSAI. |  |
| SscMode | 3GPP TS 29.571 [7] | SSC mode. |  |
| SupportedFeatures | 3GPP TS 29.571 [7] | Used to negotiate the applicability of the optional features |  |
| TnapId | 3GPP TS 29.571 [7] | Trusted Network Access Point identifier. | AfGuideTNAPs |
| TrafficDescriptor | 3GPP TS 29.122 [9] | Identifies the traffic descriptor of the background data. |  |
| TransferPolicy | 3GPP TS 29.554 [13] | Represents a transfer policy. |  |
| Uinteger | 3GPP TS 29.571 [7] | Unsigned Integer, i.e. only value 0 and integers greater than 0 are allowed. |  |
| Uri | 3GPP TS 29.571 [7] | String providing an URI. |  |
| UsageThreshold | 3GPP TS 29.122 [9] | Usage Thresholds (a data volume expected to be transferred per UE and/or time duration in seconds). |  |
| VarUeId | 3GPP TS 29.571 [7] | String represents the SUPI or GPSI. |  |
| NOTE: The UDR uses the DNN as received from the NF service consumer without applying any transformation. To successfully perform DNN matching, in a specific deployment a DNN shall always be encoded either with the full DNN (e.g., because there are multiple Operator Identifiers for a Network Identifier) or the DNN Network Identifier only. | | | |

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

#### 5.4.2.2A Type AmPolicyDataPatch

Table 5.4.2.2A-1: Definition of type AmPolicyDataPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| restriStatus | array(RestrictedStatus) | O | 1..N | List of restricted status that contains the reason for the status and the time stamp of when the status was stored. | AbnormalBehaviour |
| spendLimInfo | map(PolicyCounterInfoRm) | O | 1..N | Contains the updated status of the requested policy counters for UE. | SLAMUP |

\*\*\* 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'

patch:

summary: Modify the access and mobility policy data for a subscriber.

operationId: UpdateAccessAndMobilityPolicyData

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:modify

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: >

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

content:

application/json:

schema:

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

'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}/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'

AmPolicyDataPatch:

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

type: object

properties:

restriStatus:

type: array

items:

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

minItems: 1

description: >

List of restricted status that contains the reason for the status and the time

stamp of when the status was stored.

spendLimInfo:

type: object

additionalProperties:

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

minProperties: 1

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:

type: string

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:

type: string

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:

type: string

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

# 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 Changes \*\*\*