**3GPP TSG-CT WG3 Meeting #134 *C3-242297***

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

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **29.519** | **CR** | **0504** | **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 SM/UE policy data |
|  |  |
| ***Source to WG:*** | Huawei, Nokia, China Telecom |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | TEI18\_SLAMUP |  | ***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 canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | SA2 clarifies that e.g., the subscriber spending limits information stored in the SM/UE related policy information may need to be update from the SM/UE policy. |
|  |  |
| ***Summary of change:*** | 1. Support of subscriber spending limits information update.
 |
|  |  |
| ***Consequences if not approved:*** | Not fullfilled Stage 2 requirements. |
|  |  |
| ***Clauses affected:*** | 5.4.1, 5.4.2.5, 5.4.2.17, 5.4.2.23, 5.4.2.37(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 \*\*\*

### 5.4.1 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. |  |
| 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. |  |
| PolicyCounterInfoRm | 5.4.2.37 | Identifies the policy counter status. | SLAMUP |
| 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. |  |
| PendingPolicyCounterStatus | 3GPP TS 29.594 [28] | Indicates the pending policy counter status. | SLAMUP |
| 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 \*\*\*

#### 5.4.2.5 Type SmPolicyData

Table 5.4.2.5-1: Definition of type SmPolicyData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| smPolicySnssaiData | map(SmPolicySnssaiData) | M | 1..N | Session Management Policy data per S-NSSAI for all the SNSSAIs of the subscriber.The key of the map is the S-NSSAI. (NOTE 2) |  |
| umDataLimits | map(UsageMonDataLimit) | O | 1..N | Contains a list of usage monitoring profiles associated with the subscriber. The limit identifier is used as the key of the map. |  |
| umData | map(UsageMonData) | O | 1..N | Contains the remaining allowed usage data associated with the subscriber.The limit identifier is used as the key in the map. |  |
| suppFeat | SupportedFeatures | C | 0..1 | Indicates the list of negotiated supported features.This parameter shall be supplied by the UDR in the response to the PATCH/GET request when the PATCH/GET request includes the "supp-feat" query parameter and the UDR supports feature negotiation for Session Management Policy Data. |  |
| NOTE 1: In this Release of the specification the "limitId" corresponds to the Monitoring Key.NOTE 2: The S-NSSAI value used as key of the map is encoded as a string as defined in 3GPP TS 29.571[7], clause 5.4.4.2. |

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

#### 5.4.2.17 Type UePolicySetPatch

Table 5.4.2.17-1: Definiton of type UePolicySetPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| uePolicySections | map(UePolicySection) | O | 1..N | Contains the updated UE Policy Sections.The UPSI (UE Policy Section Identifier) is used as the key in the map. |  |
| upsis | array(string) | O | 1..N | List of identifiers for the "uePolicySections". The format of the UPSI is represented in 3GPP TS 24.501 [11] clause D.6.2. |  |
| andspInd | boolean | O | 0..1 | Indication of UE supporting ANDSP. |  |
| epsUrspInd | boolean | O | 0..1 | Indication of UE supporting URSP provisioning in EPS.True: The UE supports URSP provisioning in EPS; False: The UE does not support URSP provisioning in EPS. | EpsUrsp |
| vpsUrspInd | boolean | O | 0..1 | Indication of UE supporting VPLMN-specific URSP.True: The UE supports VPLMN-specific URSP; False: The UE does not support VPLMN-specific URSP. | VPLMNSpecificURSP |
| urspEnfInd | boolean | O | 0..1 | Indication of UE supporting URSP enforcement report.True: The UE supports URSP enforcement report; False: The UE does not support URSP enforcement report. | URSPEnforcement |
| pei | Pei | O | 0..1 | Personal Equipment Identifier. |  |
| osIds | array(OsId) | O | 1..N | Identification of the UE Operating System(s). |  |
| spendLimInfo | map(PolicyCounterInfoRm) | O | 1..N | Contains the updated status of the requested policy counters for the PDU session. The key of the map is the attribute "policyCounterId". | SLAMUP |

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

#### 5.4.2.23 Type SmPolicyDnnDataPatch

Table 5.4.2.23-1: Definition of type SmPolicyDnnDataPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| dnn | Dnn | M | 1 | DNN associated with the data |  |
| bdtRefIds | map(BdtReferenceIdRm) | O | 1..N | Updated transfer policies of background data transfer. Any string value can be used as a key of the map. | EnhancedBackgroundDataTransfer |
| spendLimInfo | map(PolicyCounterInfoRm) | O | 1..N | Updated the status of the requested policy counters for the PDU session. | SLAMUP |

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

5.4.2.37 Type PolicyCounterInfoRm

Table 5.4.2.37-1: Definition of type PolicyCounterInfoRm

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| currentStatus | string | O | 0..1 | Identifies the policy counter status applicable for a specific policy counter identified by the policyCounterId. The values (e.g. valid, invalid or any other status) are not specified. The interpretation and actions related to the defined values are out of scope of 3GPP. |  |
| penPolCounterStatuses | array(PendingPolicyCounterStatus) | O | 1..N | Provides the pending policy counter status. |  |

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

# A.2 Nudr\_DataRepository API for Policy Data

For the purpose of referencing entities in the Open API file defined in this Annex, it shall be assumed that this Open API file is contained in a physical file named "TS29519\_Policy\_Data.yaml".

openapi: 3.0.0

info:

 version: '-'

 title: Unified Data Repository Service API file for policy data

 description: |

 The API version is defined in 3GPP TS 29.504

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externalDocs:

 description: >

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

 Application Data and Structured Data for Exposure.

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

paths:

 /policy-data/ues/{ueId}:

 parameters:

 - name: ueId

 in: path

 required: true

 schema:

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

 get:

 summary: Retrieve the policy data for a subscriber

 operationId: ReadPolicyData

 tags:

 - PolicyDataForIndividualUe (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 - name: data-subset-names

 in: query

 style: form

 explode: false

 description: List of policy data subset names

 required: false

 schema:

 type: array

 items:

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

 minItems: 2

 responses:

 '200':

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

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '503':

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

 default:

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

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

 parameters:

 - name: ueId

 in: path

 required: true

 schema:

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

 get:

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

 operationId: ReadAccessAndMobilityPolicyData

 tags:

 - AccessAndMobilityPolicyData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

 description: >

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

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 parameters:

 - name: ueId

 in: path

 required: true

 schema:

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

 get:

 summary: Retrieves the UE policy set data for a subscriber

 operationId: ReadUEPolicySet

 tags:

 - UEPolicySet (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

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

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 put:

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

 operationId: CreateOrReplaceUEPolicySet

 tags:

 - UEPolicySet (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

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

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

 content:

 application/json:

 schema:

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

 headers:

 Location:

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

 required: true

 schema:

 type: string

 '200':

 description: >

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

 containing UE policies shall be returned.

 content:

 application/json:

 schema:

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

 '204':

 description: >

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

 is to be sent in the response message.

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 patch:

 summary: Modify the UE policy set data for a subscriber

 operationId: UpdateUEPolicySet

 tags:

 - UEPolicySet (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '204':

 description: >

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

 to be sent in the response message.

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 get:

 summary: Retrieves the session management policy data for a subscriber

 operationId: ReadSessionManagementPolicyData

 tags:

 - SessionManagementPolicyData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: ueId

 in: path

 required: true

 schema:

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

 - name: snssai

 in: query

 required: false

 content:

 application/json:

 schema:

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

 - name: dnn

 in: query

 required: false

 schema:

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

 - name: fields

 in: query

 description: attributes to be retrieved

 required: false

 schema:

 type: array

 items:

 type: string

 minItems: 1

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

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

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '414':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 patch:

 summary: Modify the session management policy data for a subscriber

 operationId: UpdateSessionManagementPolicyData

 tags:

 - SessionManagementPolicyData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: ueId

 in: path

 required: true

 schema:

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

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '204':

 description: >

 Successful case. The resource has been successfully updated and no

 additional content is to be sent in the response message.

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 get:

 summary: Retrieve a usage monitoring resource

 operationId: ReadUsageMonitoringInformation

 tags:

 - UsageMonitoringInformation (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: ueId

 in: path

 required: true

 schema:

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

 - name: usageMonId

 in: path

 required: true

 schema:

 type: string

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

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

 content:

 application/json:

 schema:

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

 '204':

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '414':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 put:

 summary: Create a usage monitoring resource

 operationId: CreateUsageMonitoringResource

 tags:

 - UsageMonitoringInformation (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: ueId

 in: path

 required: true

 schema:

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

 - name: usageMonId

 in: path

 required: true

 schema:

 type: string

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

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

 returned containing a representation of the resource.

 content:

 application/json:

 schema:

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

 headers:

 Location:

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

 required: true

 schema:

 type: string

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '414':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 delete:

 summary: Delete a usage monitoring resource

 operationId: DeleteUsageMonitoringInformation

 tags:

 - UsageMonitoringInformation (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: ueId

 in: path

 required: true

 schema:

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

 - name: usageMonId

 in: path

 required: true

 schema:

 type: string

 responses:

 '204':

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 parameters:

 - name: sponsorId

 in: path

 required: true

 schema:

 type: string

 get:

 summary: Retrieves the sponsored connectivity information for a given sponsorId

 operationId: ReadSponsorConnectivityData

 tags:

 - SponsorConnectivityData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

 description: >

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

 content:

 application/json:

 schema:

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

 '204':

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 /policy-data/bdt-data:

 get:

 summary: Retrieves the BDT data collection

 operationId: ReadBdtData

 tags:

 - BdtData (Store)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: bdt-ref-ids

 in: query

 description: List of the BDT reference identifiers.

 required: false

 schema:

 type: array

 items:

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

 minItems: 1

 style: form

 explode: false

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

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

 content:

 application/json:

 schema:

 type: array

 items:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 parameters:

 - name: bdtReferenceId

 in: path

 required: true

 schema:

 type: string

 get:

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

 operationId: ReadIndividualBdtData

 tags:

 - IndividualBdtData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

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

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 put:

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

 operationId: CreateIndividualBdtData

 tags:

 - IndividualBdtData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

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

 content:

 application/json:

 schema:

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

 headers:

 Location:

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

 required: true

 schema:

 type: string

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '414':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 patch:

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

 operationId: UpdateIndividualBdtData

 tags:

 - IndividualBdtData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '204':

 description: >

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

 is to be sent in the response message.

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 delete:

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

 operationId: DeleteIndividualBdtData

 tags:

 - IndividualBdtData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 responses:

 '204':

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 /policy-data/subs-to-notify:

 get:

 summary: Retrieves the list of Individual Policy Data Subscription resources

 operationId: ReadPolicyDataSubscriptions

 tags:

 - PolicyDataSubscriptions (Collection)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: mon-resources

 in: query

 style: form

 explode: false

 description: List of monitored resources whose subscriptions are requested.

 required: false

 schema:

 type: array

 items:

 type: string

 description: Contains the apiSpecificResourceUriPart of the resource URI.

 minItems: 1

 - name: ue-id

 in: query

 description: Represents the Subscription Identifier SUPI or GPSI.

 required: false

 schema:

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

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

 description: >

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

 Subscription resources shall be returned.

 content:

 application/json:

 schema:

 type: array

 items:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '503':

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

 default:

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

 post:

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

 operationId: CreateIndividualPolicyDataSubscription

 tags:

 - PolicyDataSubscriptions (Collection)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

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

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

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

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

 subscription resource shall be returned.

 content:

 application/json:

 schema:

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

 headers:

 Location:

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

 required: true

 schema:

 type: string

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 callbacks:

 policyDataChangeNotification:

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

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

 type: array

 items:

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

 minItems: 1

 responses:

 '204':

 description: No Content, Notification was successful

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 parameters:

 - name: subsId

 in: path

 required: true

 schema:

 type: string

 get:

 summary: Retrieves Individual Policy Subscription data

 operationId: ReadIndividualPolicySubscriptionData

 tags:

 - IndividualPolicySubscriptionData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 responses:

 '200':

 description: >

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

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '414':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 put:

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

 operationId: ReplaceIndividualPolicyDataSubscription

 tags:

 - IndividualPolicyDataSubscription (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: The individual subscription resource was updated successfully.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 The individual subscription resource was updated successfully and no

 additional content is to be sent in the response message.

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 delete:

 summary: Delete the individual Policy Data subscription

 operationId: DeleteIndividualPolicyDataSubscription

 tags:

 - IndividualPolicyDataSubscription (Document)

 responses:

 '204':

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 get:

 summary: Retrieve the operator specific policy data of an UE

 operationId: ReadOperatorSpecificData

 tags:

 - OperatorSpecificData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: ueId

 in: path

 description: UE Id

 required: true

 schema:

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

 - name: fields

 in: query

 description: attributes to be retrieved

 required: false

 schema:

 type: array

 items:

 type: string

 minItems: 1

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

 type: object

 additionalProperties:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '414':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 patch:

 summary: Modify the operator specific policy data of a UE

 operationId: UpdateOperatorSpecificData

 tags:

 - OperatorSpecificData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: ueId

 in: path

 description: UE Id

 required: true

 schema:

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

 requestBody:

 content:

 application/json-patch+json:

 schema:

 type: array

 items:

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

 required: true

 responses:

 '204':

 description: No content. Response to successful modification.

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 put:

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

 operationId: ReplaceOperatorSpecificData

 tags:

 - OperatorSpecificData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: ueId

 in: path

 description: UE Id

 required: true

 schema:

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

 requestBody:

 required: true

 content:

 application/json:

 schema:

 type: object

 additionalProperties:

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

 responses:

 '200':

 description: OK

 content:

 application/json:

 schema:

 type: object

 additionalProperties:

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

 '201':

 description: >

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

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

 representation of the created OperatorSpecificData resource shall be returned.

 content:

 application/json:

 schema:

 type: object

 additionalProperties:

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

 headers:

 Location:

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

 required: true

 schema:

 type: string

 '204':

 description: The resource has been successfully updated.

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 delete:

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

 operationId: DeleteOperatorSpecificData

 tags:

 - OperatorSpecificData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: ueId

 in: path

 required: true

 schema:

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

 responses:

 '204':

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 parameters:

 - name: plmnId

 in: path

 required: true

 schema:

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

 get:

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

 operationId: ReadPlmnUePolicySet

 tags:

 - PlmnUePolicySet (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

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

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '412':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 parameters:

 - name: snssai

 in: path

 required: true

 schema:

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

 get:

 summary: Retrieves a network Slice specific policy control data resource

 operationId: ReadSlicePolicyControlData

 tags:

 - SlicePolicyControlData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

 description: >

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

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 patch:

 summary: Modify a network Slice specific policy control data resource

 operationId: UpdateSlicePolicyControlData

 tags:

 - SlicePolicyControlData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

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

 slice specific policy control data shall be returned.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 The resource has been successfully updated and no additional content is

 to be sent in the response message.

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 parameters:

 - name: polSessionId

 description: >

 Represents the identifier of the MBS Session Policy Control Data.

 in: path

 required: true

 schema:

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

 get:

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

 operationId: GetMBSSessPolCtrlData

 tags:

 - MBSSessionPolicyControlData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 responses:

 '200':

 description: >

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

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '414':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 /policy-data/pdtq-data:

 get:

 summary: Retrieves the PDTQ data collection

 operationId: ReadPdtqData

 tags:

 - PdtqData (Store)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: pdtq-ref-ids

 in: query

 description: List of the PDTQ reference identifiers.

 required: false

 schema:

 type: array

 items:

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

 minItems: 1

 style: form

 explode: false

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

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

 content:

 application/json:

 schema:

 type: array

 items:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 parameters:

 - name: pdtqReferenceId

 in: path

 required: true

 schema:

 type: string

 get:

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

 operationId: ReadIndividualPdtqData

 tags:

 - IndividualPdtqData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: supp-feat

 in: query

 description: Supported Features

 required: false

 schema:

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

 responses:

 '200':

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

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 put:

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

 operationId: CreateIndividualPdtqData

 tags:

 - IndividualPdtqData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

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

 content:

 application/json:

 schema:

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

 headers:

 Location:

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

 required: true

 schema:

 type: string

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '414':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 patch:

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

 operationId: UpdateIndividualPdtqData

 tags:

 - IndividualPdtqData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '204':

 description: >

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

 is to be sent in the response message.

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

 delete:

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

 operationId: DeleteIndividualPdtqData

 tags:

 - IndividualPdtqData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 responses:

 '204':

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '429':

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

 '500':

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

 '502':

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

 '503':

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

 default:

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

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

 parameters:

 - name: intGroupId

 in: path

 required: true

 schema:

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

 get:

 summary: Retrieves a group specific policy control subscription data resource

 operationId: ReadGroupPolCtrlData

 tags:

 - GroupPolicyControlData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 parameters:

 - name: supp-feat

 in: query

 description: Represents the supported features.

 required: false

 schema:

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

 responses:

 '200':

 description: >

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

 returned.

 content:

 application/json:

 schema:

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '503':

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

 default:

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

 patch:

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

 operationId: ModifyGroupPolCtrlData

 tags:

 - GroupPolicyControlData (Document)

 security:

 - {}

 - oAuth2ClientCredentials:

 - nudr-dr

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

 - oAuth2ClientCredentials:

 - nudr-dr

 - nudr-dr:policy-data

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

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

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

 group specific policy control subscription data shall be returned.

 content:

 application/json:

 schema:

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

 '204':

 description: >

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

 the response body.

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '411':

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

 '413':

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

 '415':

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

 '429':

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

 '500':

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

 '503':

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

 default:

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

components:

 schemas:

 PolicyDataForIndividualUe:

 description: Contains policy data for a given subscriber.

 type: object

 properties:

 uePolicyDataSet:

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

 smPolicyDataSet:

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

 amPolicyDataSet:

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

 umData:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

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

 operatorSpecificDataSet:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

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

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

 suppFeat:

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

 AmPolicyData:

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

 type: object

 properties:

 praInfos:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

 Contains Presence reporting area information. The praId attribute within the

 PresenceInfo data type is the key of the map.

 subscCats:

 type: array

 items:

 type: string

 minItems: 1

 chfInfo:

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

 subscSpendingLimits:

 type: boolean

 description: >

 Indicates whether the PCF must enforce Access and Mobility management related

 policies based on subscriber spending limits.

 spendLimInfo:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

 Contains the status of the requested policy counters for UE.

 The key of the map is the attribute policyCounterId.

 suppFeat:

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

 UePolicySet:

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

 type: object

 properties:

 praInfos:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

 Contains Presence reporting area information. The praId attribute within the

 PresenceInfo data type is the key of the map.

 subscCats:

 type: array

 items:

 type: string

 minItems: 1

 uePolicySections:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

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

 the key of the map.

 upsis:

 type: array

 items:

 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

 spendLimInfo:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

 Contains the updated status of the requested policy counters for UE.

 The key of the map is the attribute policyCounterId.

 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

 spendLimInfo:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

 Contains the updated status of the requested policy counters for UE.

 The key of the map is the attribute policyCounterId.

 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]

 PolicyCounterInfoRm:

 description: Represents the data structure presenting the policy counter status.

 nullable: true

 type: object

 properties:

 currentStatus:

 type: string

 nullable: true

 penPolCounterStatuses:

 type: array

 items:

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

 minItems: 1

 description: Provides the pending policy counter status.

 nullable: true

# 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 \*\*\*