**3GPP TSG-CT WG3 Meeting #130C3-234048**

**Xiamen, China, 9 - 13 October, 2023 (revision of C3-234abc)**

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **29.519** | **CR** | **0447** | **rev** |  | **Current version:** | **17.11.0** |  |
|  |
| *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:***  | Corrections on attribute names of SM Policy Data |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | 5GS\_Ph1-CT |  | ***Date:*** | 2023-09-20 |
|  |  |  |  |  |
| ***Category:*** | **A** |  | ***Release:*** | Rel-17 |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | The "refUmdLimitIds" attribute contained in SmPolicyDnnData data type misaligns with the OpenAPI file.The "monKeys" attribute contained in LimitIdToMonitoringKey data type misaligns with the OpenAPI file.The UsageMonitoringDataLimit and UsageMonitoringData data types in the description field and OpenAPI of "refUmdLimitIds" attribute are incorrect. |
|  |  |
| ***Summary of change:*** | This CR proposes to update the attribute names in the data model to align with the OpenAPI file. |
|  |  |
| ***Consequences if not approved:*** | Errors in the specification. |
|  |  |
| ***Clauses affected:*** | 5.4.2.15, 5.4.2.16, 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 does not impact any OpenAPI file. |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

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

#### 5.4.2.15 Type SmPolicyDnnData

Table 5.4.2.15-1: Definition of type SmPolicyDnnData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| dnn | Dnn | M | 1 | DNN associated with the data |  |
| allowedServices | array(string) | O | 1..N | List of subscriber's allowed service identifiers |  |
| subscCats | array(string) | O | 1..N | List of categories associated with the subscriber |  |
| gbrUI | BitRate | O | 0..1 | Maximum aggregate UL bitrate that can be provided across all GBR QoS Flows in the DNN |  |
| gbrDl | BitRate | O | 0..1 | Maximum aggregate DL bitrate that can be provided across all GBR QoS Flows in the DNN |  |
| adcSupport | boolean | O | 0..1 | Indicates whether application detection and control is enabled for the PDU session.True: Application detection and control is enabled for the PDU session; False: Application detection and control is not enabled for the PDU session.The absence of this attribute means that ADC support is not provisioned for the UE and PDU session. |  |
| subscSpendingLimits | boolean | O | 0..1 | Indicates whether the PCF must enforce policies based on subscriber spending limits. True: Spending limit control is enabled; False: Spending limit control is not enabled.The absence of this attribute means that spending limit control is not provisioned for the UE and PDU session. |  |
| ipv4Index | IpIndex | O | 0..1 | Information that identifies which IP pool or external server is used to allocate the IPv4 address. |  |
| ipv6Index | IpIndex | O | 0..1 | Information that identifies which IP pool or external server is used to allocate the IPv6 address. |  |
| offline | boolean | O | 0..1 | Indicates whether the offline charging is applicable to the PDU session. True: Offline charging is applicable to the PDU session; False: Offline charging is not applicable to the PDU session.The absence of this attribute means that the charging method is not provisioned for the UE and PDU session. |  |
| online | boolean | O | 0..1 | Indicates whether the online charging is applicable to the PDU session. True: Online charging is applicable to the PDU session; False: Online charging is not applicable to the PDU session.The absence of this attribute means that the charging method is not provisioned for the UE and PDU session. |  |
| chfInfo | ChargingInformation | O | 0..1 | The address(es) and, if available, the CHF instance ID and the CHF set ID of the Charging Function. (NOTE) |  |
| refUmDataLimitIds | map(LimitIdToMonitoringKey) | O | 1..N | 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 | boolean | O | 0..1 | True: Indicates subscription to the MPS priority service; priority applies to all traffic on the PDU Session. False: MPS priority service is not subscribed.The absence of this attribute means that MPS priority is not provisioned for the UE and PDU session. |  |
| mcsPriority  | boolean | O | 0..1 | True: Indicates subscription to the MCS priority service; priority applies to all traffic on the PDU Session. False: IMS signalling priority service is not subscribed.The absence of this attribute means that IMS signalling priority is not provisioned for the UE and PDU session. |  |
| imsSignallingPrio | boolean | O | 0..1 | True: Indicates subscription to the IMS signalling priority service; priority only applies to IMS signalling traffic. False: IMS signalling priority service is not subscribed.The absence of this attribute means that IMS signalling priority is not provisioned for the UE and PDU session. |  |
| mpsPriorityLevel | integer | O | 0..1 | Relative priority level for the multimedia priority services |  |
| mcsPriorityLevel | integer | O | 0..1 | Relative priority level for the mission critical services |  |
| praInfos | map(PresenceInfo) | O | 1..N | Presence reporting area information. Each PresenceInfo element shall include the Presence Reporting Area Identifier within the "praId" attribute and, for a UE-dedicated presence reporting area, shall also include the list of elements composing the presence reporting area.A "praId" may indicate a Presence Reporting Area Set.The "praId" attribute within the PresenceInfo data type shall also be the key of the map.The attribute "presenceState" shall not be present. |  |
| bdtRefIds | map(BdtReferenceIdRm) | O | 1..N | Identifies transfer policies of background data transfer.Any string value can be used as a key of the map. | EnhancedBackgroundDataTransfer |
| locRoutNotAllowed | boolean | O | 0..1 | Identifies whether AF influence on traffic routing is allowed or not. True: if no local routing is allowed;False: local routing is allowed.The absence of this attribute means that AF influence on traffic routing is not provisioned for the UE and PDU session. |  |
| NOTE: When the feature "CHFsetSupport" is supported, the "secondaryChfAddress" may be omitted (see 3GPP TS 29.512 [12], clause 4.2.2.3.1). |

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

#### 5.4.2.16 Type LimitIdToMonitoringKey

Table 5.4.2.16-1: Definition of type LimitIdToMonitoringKey

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| limitId | string | M | 1 | Limit Identifier. |  |
| monkey | array(string) | O | 1..N | Monitoring Keys. |  |
| NOTE: In this Release of the specification there is only one Monitoring Key per Limit Identifier |

\*\*\* 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

 © 2022, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC).

 All rights reserved.

externalDocs:

 description: >

 3GPP TS 29.519 V17.8.0; 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

 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'

 '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'

 '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'

 '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'

 '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'

 '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'

 '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'

 '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'

 '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'

 '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

 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'

 '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'

 '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'

 '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'

 '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'

 '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'

 '503':

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

 default:

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

 /policy-data/subs-to-notify:

 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'

 '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'

 '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

 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'

 '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'

 '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'

 '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'

 '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'

 '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'

 '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

 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'

 '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'

 '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'

 '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'

 '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.

 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

 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

 pei:

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

 osIds:

 type: array

 items:

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

 minItems: 1

 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

 pei:

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

 osIds:

 type: array

 items:

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

 minItems: 1

 UePolicySection:

 description: Contains the UE policy section.

 type: object

 properties:

 uePolicySectionInfo:

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

 upsi:

 type: string

 required:

 - uePolicySectionInfo

 - upsi

 SmPolicyData:

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

 type: object

 properties:

 smPolicySnssaiData:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

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

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

 umDataLimits:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

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

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

 umData:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

 Contains the remaining allowed usage data associated with the subscriber.

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

 suppFeat:

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

 resetIds:

 type: array

 items:

 type: string

 minItems: 1

 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

 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 instancesfor 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: 'TS29122\_CommonData.yaml#/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

 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

 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'

 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

 expiry:

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

 supportedFeatures:

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

 resetIds:

 type: array

 items:

 type: string

 minItems: 1

 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'

 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

 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: 'TS29122\_CommonData.yaml#/components/schemas/BdtReferenceIdRm'

 minProperties: 1

 description: >

 Contains updated transfer policies of background data transfer.

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

 nullable: true

 required:

 - dnn

 ResourceItem:

 description: >

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

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

 type: object

 properties:

 monResourceUri:

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

 items:

 type: array

 items:

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

 minItems: 1

 required:

 - monResourceUri

 - items

 NotificationItem:

 description: >

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

 (subset of resource data) of a given resource.

 type: object

 properties:

 resourceId:

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

 notifItems:

 type: array

 items:

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

 minItems: 1

 required:

 - resourceId

 - notifItems

 UpdatedItem:

 description: Identifies a fragment of a resource.

 type: object

 properties:

 item:

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

 value: {}

 required:

 - item

 - value

 BdtDataPatch:

 description: Contains the modified background data transfer data.

 type: object

 properties:

 transPolicy:

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

 bdtpStatus:

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

 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'

 resetIds:

 type: array

 items:

 type: string

 minItems: 1

 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]

# 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

# ENUMS:

 UsageMonLevel:

 description: Represents the usage monitoring level.

 anyOf:

 - type: string

 enum:

 - SESSION\_LEVEL

 - SERVICE\_LEVEL

 - type: string

 Periodicity:

 description: Represents the time period.

 anyOf:

 - type: string

 enum:

 - YEARLY

 - MONTHLY

 - WEEKLY

 - DAILY

 - HOURLY

 - type: string

 BdtPolicyStatus:

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

 anyOf:

 - type: string

 enum:

 - INVALID

 - VALID

 - type: string

 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

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