**3GPP TSG-CT WG4 Meeting #96eC4-200848**

**E-Meeting, 17th – 28th February 2020**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **29.503** | **CR** | **0360** | **rev** | **1** | **Current version:** | **16.2.0** |  |
|  |
| *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:***  | UE Location Privacy Profile Update  |
|  |  |
| ***Source to WG:*** | CATT |
| ***Source to TSG:*** | CT4 |
|  |  |
| ***Work item code:*** | 5G\_eLCS |  | ***Date:*** | 2020-1-6 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-16 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | In subclause 6.12.1, TS 23.273 , NF(e.g. GMLC、NEF) may subscribe/unsubscribe to UDM notification of UE privacy profile updates when a deferred location request is on-going. If the UE Location Privacy Profile is updated by the UE or AF, the UDM can update the UE location privacy subscription data via triggering a Nudm\_SDM\_Notification service operation towards the GMLC or NEF. |
|  |  |
| ***Summary of change:*** | 1. Change the value of UE identity into ueId in Subscribe、Unsubscribe and ModifySubscription service operation of Nudm\_SubscriberDataManagement service.
2. Change the yaml file to align with the changes in normative description.
 |
|  |  |
| ***Consequences if not approved:*** | It is not aligned with Stage 2. |
|  |  |
| ***Clauses affected:*** | 5.2.2.3.2, 5.2.2.4.2, 5.2.2.7.2, 6.1.3.23, 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 will introduce backward compatible new features in the OpenAPI specification files of TS29503\_Nudm\_ SubscriberDataManagement. |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*The start of changes\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 5.2.2.3.2 Subscription to notifications of data change

Figure 5.2.2.3.2-1 shows a scenario where the NF service consumer sends a request to the UDM to subscribe to notifications of data change (see also 3GPP TS 23.502 [3] figure 4.2.2.2.2-1 step 14). The request contains a callback URI and the URI of the monitored resource.



Figure 5.2.2.3.2-1: NF service consumer subscribes to notifications

1. The NF service consumer sends a POST request to the parent resource (collection of subscriptions) (.../{ueId}/sdm-subscriptions), to create a subscription as present in message body.

2a. On success, the UDM responds with "201 Created" with the message body containing a representation of the created subscription. The Location HTTP header shall contain the URI of the created subscription.

2b. If there is no valid subscription data for the UE, HTTP status code "404 Not Found" shall be returned including additional error information in the response body (in the "ProblemDetails" element).

2c. If the UE subscription data exist, but the requested subscription to data change notification cannot be created (e.g. due to an invalid/unsupported data reference to be monitored, contained in the SdmSubscription parameter), HTTP status code "501 Not Implemented" shall be returned including additional error information in the response body (in the "ProblemDetails" element).

On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the POST response body.

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

##### 5.2.2.4.2 Unsubscribe to notifications of data change

Figure 5.2.2.4.2-1 shows a scenario where the NF service consumer sends a request to the UDM to unsubscribe from notifications of data changes (see also 3GPP TS 23.502 [3] figure 4.2.2.2.2-1 step 14). The request contains the URI previously received in the Location HTTP header of the response to the subscription.



Figure 5.2.2.4.2-1: NF service consumer unsubscribes to notifications

1. The NF service consumer sends a DELETE request to the resource identified by the URI previously received during subscription creation.

2a. On success, the UDM responds with "204 No Content".

2b. If there is no valid subscription available (e.g. due to an unknown subscriptionId value), HTTP status code "404 Not Found" should be returned including additional error information in the response body (in the "ProblemDetails" element).

On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the DELETE response body.

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

##### 5.2.2.7.2 Modification of a subscription to notifications of data change

Figure 5.2.2.7.2-1 shows a scenario where the NF service consumer sends a request to the UDM to modify a subscription to notifications of data changes. The request contains the URI previously received in the Location HTTP header of the response to the subscription.



Figure 5.2.2.7.2-1: NF service consumer modifies a subscription to notifications

1. The NF service consumer sends a PATCH request to the resource identified by the URI previously received during subscription creation.

 The NF service consumer may include "monitoredResourceUris" to replace the existing monitored resource URIs, e.g. to add/remove specific resource URIs from the monitored resource URI list.

2a. On success, the UDM responds with "200 OK".

2b. If there is no valid subscription available (e.g. due to an unknown subscriptionId value), HTTP status code "404 Not Found" should be returned including additional error information in the response body (in the "ProblemDetails" element).

On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the PATCH response body.

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

### 6.1.3 Resources

#### 6.1.3.1 Overview



Figure 6.1.3.1-1: Resource URI structure of the nudm-sdm API

Table 6.1.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.1.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name(Archetype) | Resource URI | HTTP method or custom operation | Description |
| Supi(Document) | /{supi} | GET | Retrieve UE's subscription data |
| Nssai(Document) | /{supi}/nssai | GET | Retrieve the UE's subscribed Network Slice Selection Assistance Information |
| AccessAndMobilitySubscriptionData(Document) | /{supi}/am-data | GET | Retrieve the UE's subscribed Access and Mobility Data |
| SorAck(Document) | /{supi}/am-data/sor-ack | PUT | Providing acknowledgement of Steering of Roaming |
| UpuAck(Document) | /{supi}/am-data/upu-ack | PUT | Providing acknowledgement of UE parameters update |
| CagAck(Document) | /{supi}/am-data/cag-ack | PUT | Providing acknowledgement of UE CAG configuration update |
| SmfSelectionSubscriptionData(Document) | /{supi}/smf-select-data | GET | Retrieve the UE's subscribed SMF Selection Data |
| UeContextInSmfData(Document) | /{supi}/ue-context-in-smf-data | GET | Retrieve the UE's Context in SMF Data |
| SessionManagementSubscriptionData(Document) | /{supi}/sm-data | GET | Retrieve the UE's session management subscription data |
| SMSSubscriptionData(Document) | /{supi}/sms-data | GET | Retrieve the UE's SMS subscription data |
| SMSManagementSubscriptionData(Document) | /{supi}/sms-mng-data | GET | Retrieve the UE's SMS management subscription data |
| LcsPrivacySubscriptionData(Document) | /{supi}/lcs-privacy-data | GET | Retrieve the UE's LCS privacy subscription data |
| LcsMobileOriginatedSubscriptionData(Document) | /{supi}/lcs-mo-data | GET | Retrieve the UE's LCS Mobile Originated subscription data |
| SdmSubscriptions(Collection) | /{ueId}/sdm-subscriptions | POST | Create a subscription |
| Individual subscription(Document) | /{ueId}/sdm-subscriptions/{subscriptionId} | DELETE | Delete the subscription identified by {subscriptionId}, i.e. unsubscribe |
| PATCH | Modify the sdm-subscription identified by {subscriptionId} |
| IdTranslationResult(Document) | /{ueId}/id-translation-result | GET | Retrieve a UE's SUPI or GPSI |
| UeContextInSmsfData(Document) | /{supi}/ue-context-in-smsf-data | GET | Retrieve the UE's Context in SMSF Data |
| TraceData(Document) | /{supi}/trace-data | GET | Retrieve Trace Configuration Data |
| SharedData(Collection) | /shared-data | GET | Retrieve shared data |
| SharedDataSubscriptions(Collection) | /shared-data-subscriptions | POST | Create a subscription |
| SharedDataIndividual subscription(Document) | /shared-data-subscriptions/{subscriptionId} | DELETE | Delete the subscription identified by {subscriptionId}, i.e. unsubscribe |
| PATCH | Modify the shared data subscription identified by {subscriptionId} |
| GroupIdentifiers(Document) | /group-data/group-identifiers | GET | Retrieve group identifiers |
| SnssaisAck(Document) | /{supi}/am-data/subscribed-snssais-ack | PUT | Providing acknowledgement of UE for subscribed S-NSSAIs |

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

##### 6.1.3.3.2 Resource Definition

Resource URI: {apiRoot}/nudm-sdm/{apiVersion}/{ueId}/sdm-subscriptions

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

Table 6.1.3.3.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.1.1 |
| apiVersion | See clause 6.1.1 |
| ueId | Represents the Subscription Permanent Identifier (see 3GPP TS 23.501 [2] clause 5.9.2) pattern: "(imsi-[0-9]{5,15}|nai-.+|.+)" |

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

##### 6.1.3.4.2 Resource Definition

Resource URI: {apiRoot}/nudm-sdm/{apiVersion}/{ueId}/sdm-subscriptions/{subscriptionId}

This resource shall support the resource URI variables defined in table 6.1.3.4.2-1.

Table 6.1.3.4.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.1.1 |
| apiVersion | See clause 6.1.1 |
| ueId | Represents the Subscription Permanent Identifier (see 3GPP TS 23.501 [2] clause 5.9.2) or Subscription Permanent Identifier (see 3GPP TS 23.501 [2] clause 5.9.2) pattern: See pattern of type VarUeId in 3GPP TS 29.571 [7] |
| subscriptionId | The subscriptionId identifies an individual subscription to notifications. |

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

6.1.3.23 Resource: LcsPrivacySubscriptionData

6.1.3.23.1 Description

This resource represents the subscribed LCS Privacy Data for a UE. It is queried by the HGMLC or NEF.

6.1.3.23.2 Resource Definition

Resource URI: {apiRoot}/nudm-sdm/{apiVersion}/{ueId}/lcs-privacy-data

This resource shall support the resource URI variables defined in table 6.1.3.23.2-1.

Table 6.1.3.23.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| **Name** | **Definition** |
| apiRoot | See clause 6.1.1 |
| apiVersion | See clause 6.1.1 |
| ueId | Represents the Subscription Permanent Identifier (see 3GPP TS 23.501 [2] clause 5.9.2) or Subscription Permanent Identifier (see 3GPP TS 23.501 [2] clause 5.9.2) pattern: See pattern of type VarUeId in 3GPP TS 29.571 [7] |

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

## A.2 Nudm\_SDM API

openapi: 3.0.0

info:

 version: '2.1.0.alpha-3'

 title: 'Nudm\_SDM'

 description: |

 Nudm Subscriber Data Management Service.

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externalDocs:

 description: 3GPP TS 29.503 Unified Data Management Services, version 16.2.0

 url: 'http://www.3gpp.org/ftp/Specs/archive/29\_series/29.503/'

servers:

 - url: '{apiRoot}/nudm-sdm/v2'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause clause 4.4 of 3GPP TS 29.501.

security:

 - oAuth2ClientCredentials:

 - nudm-sdm

 - {}

paths:

 /{supi}:

 get:

 summary: retrieve multiple data sets

 operationId: GetDataSets

 tags:

 - Retrieval of multiple data sets

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: dataset-names

 in: query

 style: form

 explode: false

 description: List of dataset names

 required: true

 schema:

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

 - name: plmn-id

 in: query

 description: serving PLMN ID

 content:

 application/json:

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/nssai:

 get:

 summary: retrieve a UE's subscribed NSSAI

 operationId: GetNSSAI

 tags:

 - Slice Selection Subscription Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: plmn-id

 in: query

 description: serving PLMN ID

 content:

 application/json:

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/am-data:

 get:

 summary: retrieve a UE's Access and Mobility Subscription Data

 operationId: GetAmData

 tags:

 - Access and Mobility Subscription Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: plmn-id

 in: query

 description: serving PLMN ID

 content:

 application/json:

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/smf-select-data:

 get:

 summary: retrieve a UE's SMF Selection Subscription Data

 operationId: GetSmfSelData

 tags:

 - SMF Selection Subscription Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: plmn-id

 in: query

 description: serving PLMN ID

 content:

 application/json:

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/ue-context-in-smf-data:

 get:

 summary: retrieve a UE's UE Context In SMF Data

 operationId: GetUeCtxInSmfData

 tags:

 - UE Context In SMF Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/ue-context-in-smsf-data:

 get:

 summary: retrieve a UE's UE Context In SMSF Data

 operationId: GetUeCtxInSmsfData

 tags:

 - UE Context In SMSF Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/trace-data:

 get:

 summary: retrieve a UE's Trace Configuration Data

 operationId: GetTraceConfigData

 tags:

 - Trace Configuration Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: plmn-id

 in: query

 description: serving PLMN ID

 content:

 application/json:

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/sm-data:

 get:

 summary: retrieve a UE's Session Management Subscription Data

 operationId: GetSmData

 tags:

 - Session Management Subscription Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: single-nssai

 in: query

 content:

 application/json:

 schema:

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

 - name: dnn

 in: query

 schema:

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

 - name: plmn-id

 in: query

 content:

 application/json:

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

 type: array

 items:

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

 minItems: 1

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/sms-data:

 get:

 summary: retrieve a UE's SMS Subscription Data

 operationId: GetSmsData

 tags:

 - SMS Subscription Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: plmn-id

 in: query

 content:

 application/json:

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/sms-mng-data:

 get:

 summary: retrieve a UE's SMS Management Subscription Data

 operationId: GetSmsMngtData

 tags:

 - SMS Management Subscription Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: plmn-id

 in: query

 content:

 application/json:

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/lcs-privacy-data:

 get:

 summary: retrieve a UE's LCS Privacy Subscription Data

 operationId: GetLcsPrivacyData

 tags:

 - LCS Privacy Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: plmn-id

 in: query

 content:

 application/json:

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/lcs-mo-data:

 get:

 summary: retrieve a UE's LCS Mobile Originated Subscription Data

 operationId: GetLcsMoData

 tags:

 - LCS Mobile Originated Data Retrieval

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: plmn-id

 in: query

 content:

 application/json:

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{ueid}/sdm-subscriptions:

 post:

 summary: subscribe to notifications

 operationId: Subscribe

 tags:

 - Subscription Creation

 parameters:

 - name: ueId

 in: path

 description: SUPI of the user

 required: true

 schema:

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

 requestBody:

 content:

 application/json:

 schema:

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

 required: true

 responses:

 '201':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudm-sdm/<apiVersion>/{supi}/sdm-subscriptions/{subscriptionId}'

 required: true

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '501':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/501'

 '503':

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

 default:

 description: Unexpected error

 callbacks:

 datachangeNotification:

 '{request.body#/callbackReference}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: Successful Notification response

 '307':

 description: Temporary Redirect

 content:

 application/problem+json:

 schema:

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

 headers:

 Location:

 description: 'Contains the new Callback URI of the target NF Service Consumer (e.g. AMF) to which the request is redirected'

 required: true

 schema:

 type: string

 '308':

 description: Permanent Redirect

 content:

 application/problem+json:

 schema:

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

 headers:

 Location:

 description: 'Contains the new Callback URI of the target NF Service Consumer (e.g. AMF) to which the request is redirected'

 required: true

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{ueId}/sdm-subscriptions/{subscriptionId}:

 delete:

 summary: unsubscribe from notifications

 operationId: Unsubscribe

 tags:

 - Subscription Deletion

 parameters:

 - name: ueId

 in: path

 description: Identity of the user

 required: true

 schema:

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

 - name: subscriptionId

 in: path

 description: Id of the SDM Subscription

 required: true

 schema:

 type: string

 responses:

 '204':

 description: Successful response

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 patch:

 summary: modify the subscription

 operationId: Modify

 tags:

 - Subscription Modification

 parameters:

 - name: ueId

 in: path

 description: Identity of the user

 required: true

 schema:

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

 - name: subscriptionId

 in: path

 description: Id of the SDM Subscription

 required: true

 schema:

 type: string

 requestBody:

 content:

 application/merge-patch+json:

 schema:

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

 required: true

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '400':

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

 '403':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{ueId}/id-translation-result:

 get:

 summary: retrieve a UE's SUPI or GPSI

 operationId: GetSupiOrGpsi

 tags:

 - GPSI to SUPI Translation

 parameters:

 - name: ueId

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 - name: supported-features

 in: query

 description: Supported Features

 schema:

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

 - name: app-port-id

 in: query

 description: Application port identifier

 content:

 application/json:

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/am-data/sor-ack:

 put:

 summary: Nudm\_Sdm Info service operation

 operationId: SorAckInfo

 tags:

 - Providing acknowledgement of Steering of Roaming

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 requestBody:

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: Successful acknowledgement

 '400':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/am-data/upu-ack:

 put:

 summary: Nudm\_Sdm Info for UPU service operation

 operationId: UpuAck

 tags:

 - Providing acknowledgement of UE Parameters Update

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 requestBody:

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: Successful acknowledgement

 '400':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/am-data/subscribed-snssais-ack:

 put:

 summary: Nudm\_Sdm Info operation for S-NSSAIs acknowledgement

 operationId: S-NSSAIs Ack

 tags:

 - Providing acknowledgement of S-NSSAIs Update

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 requestBody:

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: Successful acknowledgement

 '400':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /{supi}/am-data/cag-ack:

 put:

 summary: Nudm\_Sdm Info operation for CAG acknowledgement

 operationId: CAG Ack

 tags:

 - Providing acknowledgement of CAG Update

 parameters:

 - name: supi

 in: path

 description: Identifier of the UE

 required: true

 schema:

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

 requestBody:

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: Successful acknowledgement

 '400':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /shared-data:

 get:

 summary: retrieve shared data

 operationId: GetSharedData

 tags:

 - Retrieval of shared data

 parameters:

 - name: shared-data-ids

 in: query

 description: List of shared data ids

 required: true

 style: form

 explode: false

 schema:

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

 - name: supportedFeatures

 in: query

 description: Supported Features

 schema:

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

 - name: If-None-Match

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.2

 schema:

 type: string

 - name: If-Modified-Since

 in: header

 description: Validator for conditional requests, as described in RFC 7232, 3.3

 schema:

 type: string

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

 type: array

 items:

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

 minItems: 1

 headers:

 Cache-Control:

 description: Cache-Control containing max-age, as described in RFC 7234, 5.2

 schema:

 type: string

 ETag:

 description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3

 schema:

 type: string

 Last-Modified:

 description: Timestamp for last modification of the resource, as described in RFC 7232, 2.2

 schema:

 type: string

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /shared-data-subscriptions:

 post:

 summary: subscribe to notifications for shared data

 operationId: SubscribeToSharedData

 tags:

 - Subscription Creation for shared data

 requestBody:

 content:

 application/json:

 schema:

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

 required: true

 responses:

 '201':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudm-sdm/<apiVersion>/shared-data-subscriptions/{subscriptionId}'

 required: true

 schema:

 type: string

 '400':

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

 '404':

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

 default:

 description: Unexpected error

 callbacks:

 datachangeNotification:

 '{request.body#/callbackReference}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: Successful Notification response

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 /shared-data-subscriptions/{subscriptionId}:

 delete:

 summary: unsubscribe from notifications for shared data

 operationId: UnsubscribeForSharedData

 tags:

 - Subscription Deletion for shared data

 parameters:

 - name: subscriptionId

 in: path

 description: Id of the Shared data Subscription

 required: true

 schema:

 type: string

 responses:

 '204':

 description: Successful response

 '400':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

 patch:

 summary: modify the subscription

 operationId: ModifySharedDataSubs

 tags:

 - Subscription Modification

 parameters:

 - name: subscriptionId

 in: path

 description: Id of the SDM Subscription

 required: true

 schema:

 type: string

 requestBody:

 content:

 application/merge-patch+json:

 schema:

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

 required: true

 responses:

 '200':

 description: Expected response to a valid request

 content:

 application/json:

 schema:

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

 '400':

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

 '403':

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

 '404':

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

 '500':

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

 '503':

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

 default:

 description: Unexpected error

###Skipped for Clarity###

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*The end of changes\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*