



# NUDM SDM

---

This service is used by Consumer NFs (AMF, SMF, and SMSF) to retrieve the UEs individual subscription data relevant to the consumer NF from the UDM.

- [OpenAPI, on page 1](#)
- [info, on page 1](#)
- [externalDocs, on page 1](#)
- [security, on page 1](#)
- [servers, on page 2](#)
- [paths, on page 2](#)
- [components, on page 28](#)

## OpenAPI

OpenAPI Version: 3.0.0

## info

**Version:** '1.0.0'

**Title:** 'Nudm\_SDM'

**Description:** 'Nudm Subscriber Data Management Service'

## externalDocs

**Description:** 3GPP TS 29.503 Unified Data Management Services, version 15.2.1

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

## security

- oAuth2ClientCredentials:
- nudm-sdm

- {}

## servers

**URL:** '{apiRoot}/nudm-sdm/v1'

**Variables:**

**API Root:**

**Default:** https://example.com

**Description:** apiRoot as defined in subclause subclause 4.4 of 3GPP TS 29.501.

## paths

### supi

**get:**

**Summary:** retrieve multiple data sets

**Operation ID:** Get

**Tags:**

- Retrieval of multiple data sets

**Parameters:**

- name: supi

**In:** path

**Description:** Identifier of the UE

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: dataset-names

**In:** query

**style:** form

**explode:** false

**Description:** List of dataset names

**Required/Optional:** true

**Schema:**

**Reference:** '#/components/schemas/DatasetNames'

- name: plmn-id

**In:** query

**Description:** serving PLMN ID

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

- name: supported-features

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** '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' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/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': Reference 'TS29571\_CommonData.yaml#/components/responses/400'

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

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

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

**default:****Description:** Unexpected error

## supi nssai

**get:****Summary:** retrieve a UE's subscribed NSSAI**Operation ID:** Get**Tags:**

- Slice Selection Subscription Data Retrieval

**Parameters:**

- name: supi

**In:** path**Description:** Identifier of the UE**Required/Optional:** true**Schema:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: supported-features

**In:** query**Description:** Supported Features**Schema:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

- name: plmn-id

**In:** query**Description:** serving PLMN ID

**Content:****Application/JSON:****Schema:****Reference:** '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' Expected response to a valid request

**Content:****Application/JSON:****Schema:****Reference:** '#/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': Reference 'TS29571\_CommonData.yaml#/components/responses/400'

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

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

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

**default:**

**Description:** Unexpected error

## supi am data

**get:**

**Summary:** retrieve a UE's Access and Mobility Subscription Data

**Operation ID:** Get

**Tags:**

- Access and Mobility Subscription Data Retrieval

**Parameters:**

- name: supi

**In:** path

**Description:** Identifier of the UE

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: supported-features

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

- name: plmn-id

**In:** query

**Description:** serving PLMN ID

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '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' Expected response to a valid request

**Content:****Application/JSON:****Schema:****Reference:** '#/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': Reference 'TS29571\_CommonData.yaml#/components/responses/400'

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

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

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

**default:****Description:** Unexpected error

## supi smf select data

**get:**

**Summary:** retrieve a UE's SMF Selection Subscription Data

**Operation ID:** Get

**Tags:**

- SMF Selection Subscription Data Retrieval

**Parameters:**

- name: supi

**In:** path

**Description:** Identifier of the UE

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: supported-features

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

- name: plmn-id

**In:** query

**Description:** serving PLMN ID

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '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' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/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': Reference 'TS29571\_CommonData.yaml#/components/responses/400'

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

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

'503': Reference '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

**Operation ID:** Get

**Tags:**

- UE Context In SMF Data Retrieval

**Parameters:**

- name: supi

**In:** path

**Description:** Identifier of the UE

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: supported-features

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

**Responses:**

'200' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/UeContextInSmfData'

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

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

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

'503': Reference '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

**Operation ID:** Get

**Tags:**

- UE Context In SMSF Data Retrieval

**Parameters:**

- name: supi

**In:** path

**Description:** Identifier of the UE

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: supported-features

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

**Responses:**

'200' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/UeContextInSmsfData'

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

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

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

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

**default:**

**Description:** Unexpected error

## supi trace data

**get:**

**Summary:** retrieve a UE's Trace Configuration Data

**Operation ID:** Get

**Tags:**

- Trace Configuration Data Retrieval

**Parameters:**

- name: supi

**In:** path

**Description:** Identifier of the UE

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: supported-features

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

- name: plmn-id

**In:** query

**Description:** serving PLMN ID

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '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' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/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': Reference 'TS29571\_CommonData.yaml#/components/responses/400'

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

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

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

**default:**

**Description:** Unexpected error

## supi sm data

**get:**

**Summary:** retrieve a UE's Session Management Subscription Data

**Operation ID:** Get

**Tags:**

- Session Management Subscription Data Retrieval

**Parameters:**

- name: supi

**In:** path

**Description:** Identifier of the UE

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: supported-features

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

- name: single-nssai

**In:** query

**Content:****Application/JSON:****Schema:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

- name: dnn

**In:** query**Schema:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

- name: plmn-id

**In:** query**Content:****Application/JSON:****Schema:****Reference:** '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' Expected response to a valid request

**Content:****Application/JSON:****Schema:****Type:** array**items:****Reference:** '#/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':** Reference 'TS29571\_CommonData.yaml#/components/responses/400'**'404':** Reference 'TS29571\_CommonData.yaml#/components/responses/404'**'500':** Reference 'TS29571\_CommonData.yaml#/components/responses/500'**'503':** Reference 'TS29571\_CommonData.yaml#/components/responses/503'**default:****Description:** Unexpected error

## supi sms data

**get:****Summary:** retrieve a UE's SMS Subscription Data**Operation ID:** Get**Tags:**

- SMS Subscription Data Retrieval

**Parameters:**

- name: supi

**In:** path**Description:** Identifier of the UE**Required/Optional:** true**Schema:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: supported-features

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

- name: plmn-id

**In:** query

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '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' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/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': Reference 'TS29571\_CommonData.yaml#/components/responses/400'

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

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

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

**default:**

**Description:** Unexpected error

## supi sms mng data

**get:**

**Summary:** retrieve a UE's SMS Management Subscription Data

**Operation ID:** Get

**Tags:**

- SMS Management Subscription Data Retrieval

**Parameters:**

- name: supi

**In:** path

**Description:** Identifier of the UE

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: supported-features

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

- name: plmn-id

**In:** query

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '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' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/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': Reference 'TS29571\_CommonData.yaml#/components/responses/400'

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

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

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

**default:**

**Description:** Unexpected error

## supi sdm subscriptions

**Method:** Post

**Summary:** subscribe to notifications

**Operation ID:** Subscribe

**Tags:**

- Subscription Creation

**Parameters:**

- name: supi

**In:** path

**Description:** SUPI of the user

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

**Request Body:**

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/SdmSubscription'

**Required/Optional:** true

**Responses:**

'201' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/SdmSubscription'

**Headers:**

**Location:**

**Description:** 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudm-sdm/v1/{supi}/sdm-subscriptions/{subscriptionId}'

**Required/Optional:** true

**Schema:**

**Type:** string

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

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

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

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

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

**default:**

**Description:** Unexpected error

**Callbacks:**

**datachangeNotification:**

'{request.body#/callbackReference}':

**Method:** Post

**Request Body:**

**Required/Optional:** true

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/ModificationNotification'

**Responses:**

'204' Successful Notification response

'307' Temporary Redirect

**Content:**

application/problem+json:

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

'308' Permanent Redirect

**Content:**

application/problem+json:

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

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

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

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

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

**default:**

**Description:** Unexpected error

## supi sdm subscriptions subscriptionId

**delete:**

**Summary:** unsubscribe from notifications

**Operation ID:** Unsubscribe

**Tags:**

- Subscription Deletion

**Parameters:**

- name: supi

**In:** path

**Description:** SUPI of the user

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

- name: subscriptionId

**In:** path

**Description:** Id of the SDM Subscription

**Required/Optional:** true

**Schema:**

**Type:** string

**Responses:**

'204': Successful response

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

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

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

**default:**

**Description:** Unexpected error

## gpsi id translation result

**get:**

**Summary:** retrieve a UE's SUPI

**Operation ID:** Get

**Tags:**

- GPSI to SUPI Translation

**Parameters:**

- name: gpsi

**In:** path

**Description:** Identifier of the UE

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

- name: supported-features

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** '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' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/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':** Reference 'TS29571\_CommonData.yaml#/components/responses/400'**'404':** Reference 'TS29571\_CommonData.yaml#/components/responses/404'**'500':** Reference 'TS29571\_CommonData.yaml#/components/responses/500'**'503':** Reference 'TS29571\_CommonData.yaml#/components/responses/503'**default:****Description:** Unexpected error

## supi am data sor ack

**put:****Summary:** Nudm\_Sdm Info service operation**Operation ID:** Info**Tags:**

- Providing acknowledgement of Steering of Roaming

**Parameters:**

- name: supi

**In:** path**Description:** Identifier of the UE**Required/Optional:** true**Schema:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'**Request Body:****Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/AcknowledgeInfo'**Responses:**

'204' Successful acknowledgement

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

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

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

**default:**

**Description:** Unexpected error

## /shared-data

**get:**

**Summary:** retrieve shared data

**Operation ID:** GetSharedData

**Tags:**

- Retrieval of shared data

**Parameters:**

- name: shared-data-ids

**In:** query

**Description:** List of shared data ids

**Required/Optional:** true

**style:** form

**explode:** false

**Schema:**

**Reference:** '#/components/schemas/SharedDataIds'

- name: supportedFeatures

**In:** query

**Description:** Supported Features

**Schema:**

**Reference:** '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' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Type:** array

**items:**

**Reference:** '#/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': Reference 'TS29571\_CommonData.yaml#/components/responses/400'

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

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

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

**default:**

**Description:** Unexpected error

## /shared-data-subscriptions

**Method:** Post

**Summary:** subscribe to notifications for shared data

**Operation ID:** Subscribe to shared data

**Tags:**

- Subscription Creation for shared data

**Request Body:**

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/SdmSubscription'

**Required/Optional:** true

**Responses:**

'201' Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/SdmSubscription'

**Headers:**

**Location:**

**Description:** 'Contains the URI of the newly created resource, according to the structure:  
{apiRoot}/nudm-sdm/v1/shared-data-subscriptions/{subscriptionId}'

**Required/Optional:** true

**Schema:**

**Type:** string

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

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

**default:**

**Description:** Unexpected error

**Callbacks:**

**datachangeNotification:**

'{request.body#/callbackReference}':

**Method:** Post

**Request Body:**

**Required/Optional:** true

**Content:**

**Application/JSON:**

**Schema:****Reference:** '#/components/schemas/ModificationNotification'**Responses:**

'204' Successful Notification response

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

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

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

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

**default:****Description:** Unexpected error

## /shared-data-subscriptions/{subscriptionId}

**delete:****Summary:** unsubscribe from notifications for shared data**Operation ID:** Unsubscribe for shared data**Tags:**

- Subscription Deletion for shared data

**Parameters:**

- name: subscriptionId

**In:** path**Description:** Id of the Shared data Subscription**Required/Optional:** true**Schema:****Type:** string**Responses:**

'204' Successful response

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

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

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

**default:****Description:** Unexpected error

# components

## securitySchemes

### oAuth2ClientCredentials

**Type:** oauth2  
**Flows:**  
**clientCredentials:**  
**tokenUrl:** '{nrfApiRoot}/oauth2/token'  
**scopes:**  
**nudm-sdm:** Access to the nudm-sdm API

## schemas

# COMPLEX TYPES:

### DatasetNames

**Type:** array  
**Items:**  
**Reference:** '#/components/schemas/DataSetName'  
**minItems:** 2  
**uniqueItems:** true

### SubscriptionDataSets

**Type:** object  
**Properties:**  
**amData:**  
**Reference:** '#/components/schemas/AccessAndMobilitySubscriptionData'  
**smfSelData:**  
**Reference:** '#/components/schemas/SmfSelectionSubscriptionData'  
**uecSmfData:**  
**Reference:** '#/components/schemas/UeContextInSmfData'  
**uecSmsfData:**  
**Reference:** '#/components/schemas/UeContextInSmsfData'  
**smsSubsData:**

**Reference:** '#/components/schemas/SmsSubscriptionData'

**smData:**

**Type:** array

**Items:**

**Reference:** '#/components/schemas/SessionManagementSubscriptionData'

**minItems:** 1

**traceData:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/TraceData'

**smsMngData:**

**Reference:** '#/components/schemas/SmsManagementSubscriptionData'

## UeContextInSmsfData

**Type:** object

**Properties:**

**smsfInfo3GppAccess:**

**Reference:** '#/components/schemas/SmsfInfo'

**smsfInfoNon3GppAccess:**

**Reference:** '#/components/schemas/SmsfInfo'

## SmsfInfo

**Type:** object

**Required:**

- smsfInstanceId

- plmnId

**Properties:**

**smsfInstanceId:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

**plmnId:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

## AccessAndMobilitySubscriptionData

**Type:** object

**Properties:**

**supportedFeatures:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

**gpsis:**

**Type:** array

**Items:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

**internalGroupIds:**

**Type:** array

**Items:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/GroupId'

**minItems:** 1

**subscribedUeAmbr:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/AmbrRm'

**nssai:**

**Reference:** '#/components/schemas/Nssai'

**ratRestrictions:**

**Type:** array

**Items:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/RatType'

**forbiddenAreas:**

**Type:** array

**Items:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Area'

**serviceAreaRestriction:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/ServiceAreaRestriction'

**coreNetworkTypeRestrictions:**

**Type:** array

**Items:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/CoreNetworkType'

**rfsIndex:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/RfspIndexRm'

**subsRegTimer:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DurationSecRm'

**ueUsageType:**

**Reference:** '#/components/schemas/UeUsageType'

**mpsPriority:**

**Reference:** '#/components/schemas/MpsPriorityIndicator'

**mcsPriority:**

**Reference:** '#/components/schemas/McsPriorityIndicator'

**activeTime:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DurationSecRm'

**dIPacketCount:**

**Reference:** '#/components/schemas/DIPacketCount'

**sorInfo:**

**Reference:** '#/components/schemas/SorInfo'

**micoAllowed:**

**Reference:** '#/components/schemas/MicoAllowed'

**sharedAmDataIds:**

**Type:** array

**Items:**

**Reference:** '#/components/schemas/SharedDataId'

**minItems:** 1

**odbPacketServices:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/OdbPacketServices'

## SmfSelectionSubscriptionData

**Type:** object

**Properties:**

**supportedFeatures:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

**subscribedSnssaiInfos:**

**Type:** object

**additionalProperties:**

**Reference:** '#/components/schemas/SnssaiInfo'

**sharedSnssaiInfosId:**

**Reference:** '#/components/schemas/SharedDataId'

## SnssaiInfo

**Type:** object

**Required:**

- dnnInfos

**Properties:**

**dnnInfos:**

**Type:** array

**Items:**

**Reference:** '#/components/schemas/DnnInfo'

**minItems:** 1

## DnnInfo

**Type:** object

**Required:**

- dnn

**Properties:**

**dnn:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

**defaultDnnIndicator:**

**Reference:** '#/components/schemas/DnnIndicator'

**lboRoamingAllowed:**

**Reference:** '#/components/schemas/LboRoamingAllowed'

**iwkEpsInd:**

**Reference:** '#/components/schemas/IwkEpsInd'

**ladnIndicator:**

**Reference:** '#/components/schemas/LadnIndicator'

## Nssai

**Type:** object

**Required:**

- defaultSingleNssais

**Properties:**

**supportedFeatures:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

**defaultSingleNssais:**

**Type:** array

**Items:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

**minItems:** 1

**singleNssais:**



**Type:** array

**Items:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

**minItems:** 1

**nullable:** true

## UeContextInSmfData

**Type:** object

**Properties:**

**pduSessions:**

**Description:** A map (list of key-value pairs where PduSessionId serves as key) of PduSessions

**Type:** object

**additionalProperties:**

**Reference:** '#/components/schemas/PduSession'

**pgwInfo:**

**Type:** array

**Items:**

**Reference:** '#/components/schemas/PgwInfo'

**minItems:** 1

## PduSession

**Type:** object

**Required:**

- dnn

- smfInstanceId

- plmnId

**Properties:**

**dnn:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

**smfInstanceId:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

**plmnId:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

## PgwInfo

**Type:** object

**Required:**

- dnn
- pgwFqdn

**Properties:****dnn:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

**pgwFqdn:**

**Type:** string

**plmnId:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

## SessionManagementSubscriptionData

**Type:** object

**Required:**

- singleNssai

**Properties:****singleNssai:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

**dnnConfigurations:**

**Description:** A map (list of key-value pairs where Dnn serves as key) of DnnConfigurations

**Type:** object

**additionalProperties:**

**Reference:** '#/components/schemas/DnnConfiguration'

**internalGroupIds:**

**Type:** array

**Items:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/GroupId'

**minItems:** 1

**sharedDnnConfigurationsIds:**

**Reference:** '#/components/schemas/SharedDataId'

## DnnConfiguration

**Type:** object

**Required:**

- pduSessionTypes

- sscModes

**Properties:**

**pduSessionTypes:**

**Reference:** '#/components/schemas/PduSessionTypes'

**sscModes:**

**Reference:** '#/components/schemas/SscModes'

**iwkEpsInd:**

**Reference:** '#/components/schemas/IwkEpsInd'

**ladnIndicator:**

**Reference:** '#/components/schemas/LadnIndicator'

**5gQosProfile:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SubscribedDefaultQos'

**sessionAmbr:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Ambr'

**3gppChargingCharacteristics:**

**Reference:** '#/components/schemas/3GppChargingCharacteristics'

**staticIpAddress:**

**Type:** array

**Items:**

**Reference:** '#/components/schemas/IpAddress'

**minItems:** 1

**maxItems:** 2

**upSecurity:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/UpSecurity'

## IpAddress

**Type:** object

**oneOf:**

- required:

- ipv4Address

- required:

- ipv6Address

- required:

- ipv6Prefix

**Properties:**

**ipv4Addr:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'**ipv6Addr:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Addr'**ipv6Prefix:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

## PduSessionTypes

**Type:** object**Required:**

- defaultSessionType

**Properties:****defaultSessionType:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/PduSessionType'**allowedSessionTypes:****Type:** array**Items:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/PduSessionType'**minItems:** 1

## SscModes

**Type:** object**Required:**

- defaultSscMode

**Properties:****defaultSscMode:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SscMode'**allowedSscModes:****Type:** array**Items:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SscMode'**minItems:** 1**maxItems:** 2

## SmsSubscriptionData

**Type:** object

**Properties:****smsSubscribed:****Reference:** '#/components/schemas/SmsSubscribed'**sharedSmsSubsDataId:****Reference:** '#/components/schemas/SharedDataIds'**SmsManagementSubscriptionData****Type:** object**Properties:****supportedFeatures:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'**mtSmsSubscribed:****Type:** boolean**mtSmsBarringAll:****Type:** boolean**mtSmsBarringRoaming:****Type:** boolean**moSmsSubscribed:****Type:** boolean**moSmsBarringAll:****Type:** boolean**moSmsBarringRoaming:****Type:** boolean**sharedSmsMngDataIds:****Type:** array**Items:****Reference:** '#/components/schemas/SharedDataId'**minItems:** 1**SdmSubscription****Type:** object**Required:**

- nfInstanceId

- callbackUri

- monitoredResourceUri

**Properties:****nfInstanceId:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'**implicitUnsubscribe:****Type:** boolean**expires:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DateTime'**callbackReference:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Uri'**amfServiceName:****Reference:** 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/ServiceName'**monitoredResourceUris:****Type:** array**Items:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Uri'**minItems:** 1**singleNssai:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Snssai'**dnn:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Dnn'**ModificationNotification****Type:** object**Required:**

- notifyItems

**Properties:****notifyItems:****Type:** array**Items:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/NotifyItem'**minItems:** 1**IdTranslationResult****Type:** object**Required:**

- supi

**Properties:**

**supportedFeatures:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

**supi:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

**gpsi:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

## AcknowledgeInfo

**Type:** object

**Properties:**

**sorMacIue:**

**Reference:** 'TS29509\_Nausf\_SoRProtection.yaml#/components/schemas/SorMac'

**securedPacket:**

**Reference:** '#/components/schemas/SecuredPacket'

## SorInfo

**Type:** object

**Properties:**

**steeringContainer:**

**Reference:** '#/components/schemas/SteeringContainer'

**ackInd:**

**Reference:** 'TS29509\_Nausf\_SoRProtection.yaml#/components/schemas/AckInd'

**sorMacIausf:**

**Reference:** 'TS29509\_Nausf\_SoRProtection.yaml#/components/schemas/SorMac'

**countersor:**

**Reference:** 'TS29509\_Nausf\_SoRProtection.yaml#/components/schemas/CounterSor'

**Required:**

- ackInd

- sorMacIausf

- countersor

## SharedDataIds

**Type:** array

**Items:**

**Reference:** '#/components/schemas/SharedDataId'

## SharedData

**Type:** object

**Required:**

- sharedDataId

**Properties:**

**sharedDataId:**

**Reference:** '#/components/schemas/SharedDataId'

**sharedAmData:**

**Reference:** '#/components/schemas/AccessAndMobilitySubscriptionData'

**sharedSmsSubsData:**

**Reference:** '#/components/schemas/SmsSubscriptionData'

**sharedSmsMngSubsData:**

**Reference:** '#/components/schemas/SmsManagementSubscriptionData'

**sharedDnnConfigurations:**

**Type:** object

**additionalProperties:**

**Reference:** '#/components/schemas/DnnConfiguration'

**sharedTraceData:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/TraceData'

**sharedSnssaiInfos:**

**Type:** object

**additionalProperties:**

**Reference:** '#/components/schemas/SnssaiInfo'

**sharedAuthenticationSubscription:**

**Reference:** 'TS29505\_Subscription\_Data.yaml#/components/schemas/SharedAuthenticationSubscription'

## TraceDataResponse

**Type:** object

**Properties:**

**traceData:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/TraceData'

**sharedTraceDataId:**

**Reference:** '#/components/schemas/SharedDataId'



## SteeringContainer

**oneOf:**

- type: array

**Items:**

**Reference:** 'TS29509\_Nausf\_SoRProtection.yaml#/components/schemas/SteeringInfo'

**minItems:** 1

- \$ref: '#/components/schemas/SecuredPacket'

# SIMPLE TYPES:

## UeUsageType

Type: integer

## MpsPriorityIndicator

Type: boolean

## McsPriorityIndicator

Type: boolean

## DnnIndicator

Type: boolean

## LboRoamingAllowed

Type: boolean

## LadnIndicator

Type: boolean

## SmsSubscribed

Type: boolean

## 3GppChargingCharacteristics

Type: string

## DIPacketCount

Type: integer

**Minimum:** -1

## MicoAllowed

**Type:** boolean

## SharedDataId

**Type:** string

**Pattern:** '^[0-9]{5,6}-.+'

## IwkEpsInd

**Type:** boolean

## SecuredPacket

**Type:** string

**format:** base64

# ENUMS:

## DataSetName

**anyOf:**

- type: string

**enum:**

- AM

- SMF\_SEL

- UEC\_SMF

- UEC\_SMSF

- SMS\_SUB

- SM

- TRACE

- SMS\_MNG

- type: string