



# Nudm SDM

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## OpenAPI

OpenAPI Version: 3.0.0

## Info

**Version:** '1.0.0'  
**Title:** 'Nudm\_SDM'  
**Description:** 'Nudm Subscriber Data Management Service'

## 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.

## Security

- oAuth2ClientCredentials:

```
- nudm-sdm
- {}
```

## 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':
      Description: 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':  
**Description:** 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':  
**Description:** 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':**  
**Description:** 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':

**Description:** 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-smf-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':  
**Description:** 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':****Description:** 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':

**Description:** Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Type:** array

**Items:**

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

**Min Items:** 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':**  
**Description:** 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':****Description:** 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':
  Description: 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':
    Description: Successful Notification response
  '307':
    Description: Temporary Redirect
    Content:
      application/problem+json:
        Schema:
          Reference:
'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  '308':
    Description: 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':**  
**Description:** 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':

**Description:** 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':  
**Description:** 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':

**Description:** Expected response to a valid request

**Content:**

**Application/JSON:**

**Schema:**

**Type:** array

**Items:**

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

**Min Items:** 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':

**Description:** 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':**  
**Description:** 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':**  
**Description:** 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'
  rfspIndex:
    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'
  dlPacketCount:
    Reference: '#/components/schemas/DlPacketCount'
  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
            - $ref: '#/components/schemas/SecuredPacket'
# SIMPLE TYPES:
    UeUsageType:
        Type: integer
    MpsPriorityIndicator:
        Type: boolean
    McsPriorityIndicator:
        Type: boolean
    DnnIndicator:
        Type: boolean
    LboRoamingAllowed:
        Type: boolean
    LadnIndicator:
        Type: boolean
    SmsSubscribed:
        Type: boolean
    3GppChargingCharacteristics:
        Type: string
    DlPacketCount:
        Type: integer
        Minimum: -1
    MicoAllowed:
        Type: boolean
    SharedDataId:
        Type: string
        Pattern: '^([0-9]{5,6})-.$'
    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
```

## External Docs

**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/](http://www.3gpp.org/ftp/Specs/archive/29_series/29.503/)'