



Nudm_SDM

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

Reference: 3GPP TS 29.503 Unified Data Management Services, version 15.3.0

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OpenAPI

OpenAPI Version: 3.0.0

Info

Version: '2.1.0.alpha-4'

Title: 'Nudm_SDM'

Description: |

Nudm Subscriber Data Management Service.

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Servers

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

Variables:

API Root:

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

Operation ID: GetDataSets

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: GetNSSAI

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: GetAmData

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}/am-data/ecr-data

get:**Summary:** retrieve a UE's subscribed Enhanced Coverage Restriction Data**Operation ID:** GetEcrData**Tags:**

- Enhanced Coverage Restriction 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: 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/EnhancedCoverageRestrictionData'
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: GetSmfSelData

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: GetUeCtxInSmfData

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-smsf-data

get:

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

Operation ID: GetUeCtxInSmsfData

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: GetTraceConfigData

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: GetSmData

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: GetSmsData

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: GetSmsMngtData

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

/ueid/lcs-privacy-data

get:

Summary: retrieve a UE's LCS Privacy Subscription Data

Operation ID: GetLcsPrivacyData

Tags:

- LCS Privacy Data Retrieval

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
- **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/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':****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}/lcs-mo-data

get:

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

Operation ID: GetLcsMoData

Tags:

- LCS Mobile Originated 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/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':
    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

```

/{ueId}/sdm-subscriptions

```

Method: Post
Summary: subscribe to notifications
Operation ID: Subscribe

Tags:
- Subscription Creation

Parameters:
- Name: ueId
  In: path
  Description: Identity of the user
  Required/Optional: true
  Schema:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
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/<apiVersion>/{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'`**Headers:****Location:****Description:** 'Contains the new Callback URI of the target NF Service

Consumer (e.g. AMF) to which the request is redirected'

Required/Optional: true

Schema:

Type: string

'308':

Description: Permanent Redirect

Content:

application/problem+json:

Schema:

Reference:

'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/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'

'503':

Reference: 'TS29571_CommonData.yaml#/components/responses/503'

Default:

Description: Unexpected error

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

delete:

Summary: unsubscribe from notifications

Operation ID: Unsubscribe

Tags:

- Subscription Deletion

Parameters:

- **Name:** ueId

In: path

Description: Identity of the user

Required/Optional: true

Schema:

Reference: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'

- **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'

'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

patch:

Summary: modify the subscription
Operation ID: Modify

Tags:

- Subscription Modification

Parameters:

- **Name:** ueId
In: path
Description: Identity of the user
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'

- **Name:** subscriptionId
In: path
Description: Id of the SDM Subscription
Required/Optional: true
Schema:
Type: string

- **Name:** supported-features
In: query
Description: Features required to be supported by the target NF
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

Request Body:

Content:
application/merge-patch+json:
Schema:
Reference: '#/components/schemas/SdmSubsModification'
Required/Optional: true

Responses:

'200':
Description: Expected response to a valid request
Content:
Application/JSON:
Schema:

```

    oneOf:
      - $ref: '#/components/schemas/SdmSubscription'
      - $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
  '400':
    Reference: 'TS29571_CommonData.yaml#/components/responses/400'
  '403':
    Reference: 'TS29571_CommonData.yaml#/components/responses/403'
  '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

```

/{ueId}/id-translation-result

get:

Summary: retrieve a UE's SUPI or GPSI

Operation ID: GetSupiOrGpsi

Tags:

- GPSI to SUPI Translation

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
- **Name:** supported-features
In: query
Description: Supported Features
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
- **Name:** app-port-id
In: query
Description: Application port identifier
Content:
Application/JSON:
Schema:
Reference: '#/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:

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: SorAckInfo

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

```

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

```

put:
  Summary: Nudm_Sdm Info for UPU service operation
  Operation ID: UpuAck

Tags:
  - Providing acknowledgement of UE Parameters Update

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

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

put:

Summary: Nudm_Sdm Info operation for S-NSSAIs acknowledgement
Operation ID: S-NSSAIs Ack

Tags:

- Providing acknowledgement of S-NSSAIs Update

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

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

put:

Summary: Nudm_Sdm Info operation for CAG acknowledgement
Operation ID: CAG Ack

Tags:

- Providing acknowledgement of CAG Update

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

/{supi}/am-data/update-sor

Method: Post
Summary: Nudm_Sdm custom operation to trigger SOR info update
Operation ID: Update SOR Info
Tags:
 - Trigger SOR info update
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/SorUpdateInfo'
Responses:
'200':
Description: Expected response to a valid request
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SorInfo'

```

'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

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: SubscribeToSharedData

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/<apiVersion>/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: UnsubscribeForSharedData

  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'
'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

patch:

Summary: modify the subscription
Operation ID: ModifySharedDataSubs

Tags:

- Subscription Modification

Parameters:

- **Name:** subscriptionId
In: path
Description: Id of the SDM Subscription
Required/Optional: true
Schema:
Type: string
- **Name:** supported-features
In: query
Description: Features required to be supported by the target NF
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

Request Body:

Content:
application/merge-patch+json:
Schema:
Reference: '#/components/schemas/SdmSubsModification'
Required/Optional: true

Responses:

'200':
Description: Expected response to a valid request
Content:
Application/JSON:
Schema:

```

    oneOf:
      - $ref: '#/components/schemas/SdmSubscription'
      - $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
  '400':
    Reference: 'TS29571_CommonData.yaml#/components/responses/400'
  '403':
    Reference: 'TS29571_CommonData.yaml#/components/responses/403'
  '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

```

/group-data/group-identifiers

get:

Summary: Mapping of Group Identifiers

Operation ID: GetGroupIdentifiers

Tags:

- Group Identifiers

Parameters:

```

- Name: ext-group-id
  In: query
  Description: External Group Identifier
  Required/Optional: false
  Schema:
    Reference: '#/components/schemas/ExtGroupId'
- Name: int-group-id
  In: query
  Description: Internal Group Identifier
  Required/Optional: false
  Schema:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/GroupId'
- Name: ue-id-ind
  In: query
  Description: Indication whether UE identifiers are required or not
  Required/Optional: false
  Schema:
    Type: boolean
    Default: false
- 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/GroupIdentifiers'
    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

```

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'
    lcsPrivacyData:
      Reference: '#/components/schemas/LcsPrivacyData'
    lcsMoData:
      Reference: '#/components/schemas/LcsMoData'
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
  vnGroupInfo:
    Type: object
    additionalProperties:
      Reference: '#/components/schemas/VnGroupData'
    minProperties: 1
  sharedVnGroupDataIds:
    Type: object
    additionalProperties:
      Reference: '#/components/schemas/SharedDataId'
    minProperties: 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'
sorInfoExpectInd:
    Type: boolean
sorafRetrieval:
    Type: boolean
    Default: false
sorUpdateIndicatorList:
    Type: array
    Items:
        Reference: '#/components/schemas/SorUpdateIndicator'
    minItems: 1
upuInfo:
    Reference: '#/components/schemas/UpuInfo'
micoAllowed:
    Reference: '#/components/schemas/MicoAllowed'
sharedAmDataIds:
    Type: array
    Items:
        Reference: '#/components/schemas/SharedDataId'
    minItems: 1
odbPacketServices:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/OdbPacketServices'
subscribedDnnList:
    Type: array
    Items:
        anyOf:
            - $ref: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
            - $ref: 'TS29571_CommonData.yaml#/components/schemas/WildcardDnn'
serviceGapTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
traceData:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
cagData:
    Reference: '#/components/schemas/CagData'
stnSr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/StnSr'
cMsisdn:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/CMsisdn'
nbIoTUEPriority:
    Reference: '#/components/schemas/NbIoTUEPriority'
nssaiInclusionAllowed:
    Type: boolean
```

```

    Default: false
rgWirelineCharacteristics:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RgWirelineCharacteristics'

rgTMBR:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Tmbr'
ecRestrictionData:
    Reference: '#/components/schemas/EcRestrictionData'
expectedUeBehaviourList:
    Reference: '#/components/schemas/ExpectedUeBehaviourData'
maximumResponseTimeList:
    Type: array
    Items:
    Reference: '#/components/schemas/MaximumResponseTime'
    minItems: 1
maximumLatencyList:
    Type: array
    Items:
    Reference: '#/components/schemas/MaximumLatency'
    minItems: 1
primaryRatRestrictions:
    Type: array
    Items:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
secondaryRatRestrictions:
    Type: array
    Items:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
edrxParametersList:
    Type: array
    Items:
    Reference: '#/components/schemas/EdrxParameters'
    minItems: 1
ptwParametersList:
    Type: array
    Items:
    Reference: '#/components/schemas/PtwParameters'
    minItems: 1
iabOperationAllowed:
    Type: boolean
    Default: false
nrV2xServicesAuth:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NrV2xAuth'
lteV2xServicesAuth:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/LteV2xAuth'
nrUePc5Ambr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
ltePc5Ambr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
CagData:
    Type: object
    Required:

```

```

- cagInfos
Properties:
  cagInfos:
    Description: A map (list of key-value pairs where PlmnId serves as key) of CagInfo

    Type: object
    additionalProperties:
      Reference: '#/components/schemas/CagInfo'
    provisioningTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
CagInfo:
  Type: object
  Required:
  - allowedCagList
  Properties:
    allowedCagList:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/CagId'
    cagOnlyIndicator:
      Type: boolean
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:
      anyOf:
        - $ref: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
        - $ref: 'TS29571_CommonData.yaml#/components/schemas/WildcardDnn'
    defaultDnnIndicator:
      Reference: '#/components/schemas/DnnIndicator'

```

```

lboRoamingAllowed:
  Reference: '#/components/schemas/LboRoamingAllowed'
iwkEpsInd:
  Reference: '#/components/schemas/IwkEpsInd'
dnnBarred:
  Type: boolean
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
    provisioningTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
    additionalSnssaiData:
      Type: object
      additionalProperties:
        Reference: '#/components/schemas/AdditionalSnssaiData'
      minProperties: 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
    emergencyInfo:
      Reference: '#/components/schemas/EmergencyInfo'
EmergencyInfo:
  Type: object
  oneOf:
  - required:
    - pgwFqdn

```

```

- required:
  - pgwIpAddress
Properties:
  pgwFqdn:
    Type: string
  pgwIpAddress:
    Reference: '#/components/schemas/IpAddress'
  smfInstanceId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
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, or optionally the Wildcard
    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
  vnGroupInfo:

```



```

    Type: object
    additionalProperties:
      Reference: '#/components/schemas/VnGroupData'
    minProperties: 1
sharedVnGroupDataIds:
  Type: object
  additionalProperties:
    Reference: '#/components/schemas/SharedDataId'
  minProperties: 1
sharedDnnConfigurationsId:
  Reference: '#/components/schemas/SharedDataId'
odbPacketServices:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/OdbPacketServices'
traceData:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
sharedTraceDataId:
  Reference: '#/components/schemas/SharedDataId'
expectedUeBehavioursList:
  Type: object
  additionalProperties:
    Reference: '#/components/schemas/ExpectedUeBehaviourData'
  minProperties: 1
suggestedPacketNumDlList:
  Type: object
  additionalProperties:
    Reference: '#/components/schemas/SuggestedPacketNumDl'
  minProperties: 1
3gppChargingCharacteristics:
  Reference: '#/components/schemas/3GppChargingCharacteristics'
DnnConfiguration:
  Type: object
  Required:
  - pduSessionTypes
  - sscModes
  Properties:
  pduSessionTypes:
    Reference: '#/components/schemas/PduSessionTypes'
  sscModes:
    Reference: '#/components/schemas/SscModes'
  iwkEpsInd:
    Reference: '#/components/schemas/IwkEpsInd'
  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'
  pduSessionContinuityInd:
    Reference: '#/components/schemas/PduSessionContinuityInd'
  invokeNefSelection:
    Type: boolean
  niddNefId:
    Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/NefId'
  niddInfo:
    Reference: '#/components/schemas/NiddInformation'
  redundantSessionAllowed:
    Type: boolean
  acsInfo:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/AcsInfo'
  ipv4FrameRouteList:
    Type: array
    Items:
      Reference: '#/components/schemas/FrameRouteInfo'
    minItems: 1
  ipv6FrameRouteList:
    Type: array
    Items:
      Reference: '#/components/schemas/FrameRouteInfo'
    minItems: 1
  atsssAllowed:
    Type: boolean
    Default: false
NiddInformation:
  Type: object
  Required:
    - afId
  Properties:
    afId:
      Type: string
    gpsi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
    extGroupId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/ExternalGroupId'
IpAddress:
  Type: object
  oneOf:
    - required:
      - ipv4Addr
    - required:
      - ipv6Addr
    - 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/SharedDataId'
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
  traceData:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
SdmSubscription:
  Type: object
  Required:
    - nfInstanceId
    - callbackReference
    - monitoredResourceUris
  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'
    subscriptionId:
      Type: string
    plmnId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
    immediateReport:
      Type: boolean
      Default: false
    report:
      Reference: '#/components/schemas/SubscriptionDataSets'
SdmSubModification:
  Type: object
  Properties:
    expires:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
    monitoredResourceUris:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
      minItems: 1
  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
Required:
  - provisioningTime
Properties:
  sorMacIue:
    Reference: 'TS29509_Nausf_SoRProtection.yaml#/components/schemas/SorMac'
  upuMacIue:
    Reference: 'TS29509_Nausf_UPUProtection.yaml#/components/schemas/UpuMac'
  securedPacket:
    Reference: '#/components/schemas/SecuredPacket'
  provisioningTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
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'
  provisioningTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
Required:
  - ackInd
  - provisioningTime
SharedDataIds:
Type: array
Items:

```

```

    Reference: '#/components/schemas/SharedDataId'
  minItems: 1
  uniqueItems: true
UpuInfo:
  Type: object
  Properties:
    upuDataList:
      Type: array
      Items:
        Reference: 'TS29509_Nausf_UPUProtection.yaml#/components/schemas/UpuData'
        minItems: 1
    upuRegInd:
      Reference: '#/components/schemas/UpuRegInd'
    upuAckInd:
      Reference: 'TS29509_Nausf_UPUProtection.yaml#/components/schemas/UpuAckInd'
    upuMacIausf:
      Reference: 'TS29509_Nausf_UPUProtection.yaml#/components/schemas/UpuMac'
    counterUpu:
      Reference: 'TS29509_Nausf_UPUProtection.yaml#/components/schemas/CounterUpu'
    provisioningTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
  Required:
    - upuDataList
    - upuAckInd
    - upuRegInd
    - provisioningTime
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'
    sharedVnGroupDatAs:
      Type: object
      additionalProperties:

```

```

        Reference: '#/components/schemas/VnGroupData'
      minProperties: 1
    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'
    GroupIdentifiers:
      Type: object
      Properties:
        extGroupId:
          Reference: '#/components/schemas/ExtGroupId'
        intGroupId:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/GroupId'
        ueIdList:
          Type: array
          Items:
            Reference: '#/components/schemas/UeId'
          minItems: 1
    VnGroupData:
      Type: object
      Properties:
        pduSessionTypes:
          Reference: '#/components/schemas/PduSessionTypes'
        dnn:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
        singleNssai:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
        appDescriptors:
          Type: array
          Items:
            Reference: '#/components/schemas/AppDescriptor'
          minItems: 1
    AppDescriptor:
      Type: object
      Properties:
        osId:
          Reference: 'TS29519_Policy_Data.yaml#/components/schemas/OsId'
        appId:
          Type: string
    AdditionalSnssaiData:
      Type: object

```

```

Properties:
  requiredAuthnAuthz:
    Type: boolean
AppPortId:
  Type: object
  Properties:
    destinationPort:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uint16'
    originatorPort:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uint16'
LcsPrivacyData:
  Type: object
  Properties:
    lpi:
      Reference: '#/components/schemas/Lpi'
    unrelatedClasses:
      Type: array
      Items:
        Reference: '#/components/schemas/UnrelatedClass'
      minItems: 1
    plmnOperatorClasses:
      Type: array
      Items:
        Reference: '#/components/schemas/PlmnOperatorClass'
      minItems: 1
Lpi:
  Type: object
  Required:
    - locationPrivacyInd
  Properties:
    locationPrivacyInd:
      Reference: '#/components/schemas/LocationPrivacyInd'
    validTimePeriod:
      Reference: '#/components/schemas/ValidTimePeriod'
UnrelatedClass:
  Type: object
  Required:
    - nonExternalUnrelatedClass
  Properties:
    nonExternalUnrelatedClass:
      Reference: '#/components/schemas/NonExternalUnrelatedClass'
    externalUnrelatedClass:
      Reference: '#/components/schemas/ExternalUnrelatedClass'
    serviceTypeUnrelatedClasses:
      Type: array
      Items:
        Reference: '#/components/schemas/ServiceTypeUnrelatedClass'
      minItems: 1
PlmnOperatorClass:
  Type: object
  Required:
    - lcsClientClass

```



```

- lcsClientIds
Properties:
  lcsClientClass:
    Reference: '#/components/schemas/LcsClientClass'
  lcsClientIds:
    Type: array
    Items:
      Reference: '#/components/schemas/LcsClientId'
    minItems: 1
ValidTimePeriod:
Type: object
Properties:
  startTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
  endTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
NonExternalUnrelatedClass:
Properties:
  lcsClientNonExternals:
    Type: array
    Items:
      Reference: '#/components/schemas/LcsClientNonExternal'
    minItems: 1
  afNonExternals:
    Type: array
    Items:
      Reference: '#/components/schemas/AfNonExternal'
    minItems: 1
LcsClientNonExternal:
Type: object
Required:
- lcsClientId
Properties:
  lcsClientId:
    Reference: '#/components/schemas/LcsClientId'
  allowedGeographicArea:
    Type: array
    Items:
      Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/GeographicArea'
    minItems: 1
  privacyCheckRelatedAction:
    Reference: '#/components/schemas/PrivacyCheckRelatedAction'
  codeWordInd:
    Reference: '#/components/schemas/CodeWordInd'
  validTimePeriod:
    Reference: '#/components/schemas/ValidTimePeriod'
AfNonExternal:
Type: object
Required:
- afId
Properties:
  afId:

```

```

    Type: string
  allowedGeographicArea:
    Type: array
    Items:
      Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/GeographicArea'
    minItems: 1
  privacyCheckRelatedAction:
    Reference: '#/components/schemas/PrivacyCheckRelatedAction'
  codeWordInd:
    Reference: '#/components/schemas/CodeWordInd'
  validTimePeriod:
    Reference: '#/components/schemas/ValidTimePeriod'
ExternalUnrelatedClass:
Properties:
  lcsClientExternals:
    Type: array
    Items:
      Reference: '#/components/schemas/LcsClientExternal'
    minItems: 1
  afExternals:
    Type: array
    Items:
      Reference: '#/components/schemas/AfExternal'
    minItems: 1
  lcsClientGroupExternals:
    Type: array
    Items:
      Reference: '#/components/schemas/LcsClientGroupExternal'
    minItems: 1
AfExternal:
Type: object
Properties:
  afId:
    Type: string
  allowedGeographicArea:
    Type: array
    Items:
      Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/GeographicArea'
    minItems: 1
  privacyCheckRelatedAction:
    Reference: '#/components/schemas/PrivacyCheckRelatedAction'
  validTimePeriod:
    Reference: '#/components/schemas/ValidTimePeriod'
LcsClientExternal:
Type: object
Properties:
  allowedGeographicArea:
    Type: array
    Items:
      Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/GeographicArea'
    minItems: 1

```

```

    privacyCheckRelatedAction:
      Reference: '#/components/schemas/PrivacyCheckRelatedAction'
    validTimePeriod:
      Reference: '#/components/schemas/ValidTimePeriod'
LcsClientGroupExternal:
  Type: object
  Properties:
    lcsClientGroupId:
      Reference: '#/components/schemas/ExtGroupId'
    allowedGeographicArea:
      Type: array
      Items:
        Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/GeographicArea'
      minItems: 1
    privacyCheckRelatedAction:
      Reference: '#/components/schemas/PrivacyCheckRelatedAction'
    validTimePeriod:
      Reference: '#/components/schemas/ValidTimePeriod'
ServiceTypeUnrelatedClass:
  Type: object
  Required:
    - serviceType
  Properties:
    serviceType:
      Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/LcsServiceType'
    allowedGeographicArea:
      Type: array
      Items:
        Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/GeographicArea'
      minItems: 1
    privacyCheckRelatedAction:
      Reference: '#/components/schemas/PrivacyCheckRelatedAction'
    codeWordInd:
      Reference: '#/components/schemas/CodeWordInd'
    validTimePeriod:
      Reference: '#/components/schemas/ValidTimePeriod'
LcsMoData:
  Type: object
  Required:
    - allowedServiceClasses
  Properties:
    allowedServiceClasses:
      Type: array
      Items:
        Reference: '#/components/schemas/LcsMoServiceClass'
      minItems: 1
EcRestrictionData:
  Type: object
  Properties:
    ecModeARestricted:
      Type: boolean
    ecModeBRestricted:

```

```

    Type: boolean
ExpectedUeBehaviourData:
  Type: object
  Properties:
    stationaryIndication:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/StationaryIndication'
    communicationDurationTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
    periodicTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
    scheduledCommunicationTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/ScheduledCommunicationTime'

    scheduledCommunicationType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/ScheduledCommunicationType'

    expectedUmts:
      Type: array
      Items:
        Reference: 'TS29503_Nudm_PP.yaml#/components/schemas/LocationArea'
      minItems: 1
      Description: Identifies the UE's expected geographical movement. The attribute
is only applicable in 5G.
    trafficProfile:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/TrafficProfile'
    batteryIndication:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BatteryIndication'
    validityTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
MaximumResponseTime:
  Type: object
  Required:
    - maximumResponseTime
  Properties:
    maximumResponseTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
    snssai:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
    dnn:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
    validityTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
MaximumLatency:
  Type: object
  Required:
    - maximumLatency
  Properties:
    maximumLatency:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
    snssai:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
    dnn:

```

```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
  validityTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
SuggestedPacketNumDl:
  Type: object
  Required:
    - suggestedPacketNumDl
  Properties:
    suggestedPacketNumDl:
      Type: integer
      Minimum: 1
    validityTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
FrameRouteInfo:
  Type: object
  Properties:
    ipv4Mask:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4AddrMask'
    ipv6Prefix:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'
SorUpdateInfo:
  Type: object
  Required:
    - vplmnId
  Properties:
    vplmnId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
EnhancedCoverageRestrictionData:
  Type: object
  Properties:
    plmnEcInfoList:
      Type: array
      Items:
        Reference: 'TS29503_Nudm_PP.yaml#/components/schemas/PlmnEcInfo'
      minItems: 1
EdrxParameters:
  Type: object
  Required:
    - ratType
    - edrxValue
  Properties:
    ratType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
    edrxValue:
      Type: string
      Pattern: '^([0-1]{4})$'
PtwParameters:
  Type: object
  Required:
    - operationMode
    - ptwValue
  Properties:
    operationMode:

```

```

        Reference: '#/components/schemas/OperationMode'
    ptwValue:
        Type: string
        Pattern: '^([0-1]{4})$'
    UeId:
        Type: object
        Required:
            - supi
        Properties:
            supi:
                Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
            gpsiList:
                Type: array
                Items:
                    Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
                minItems: 1
# SIMPLE TYPES:
    UeUsageType:
        Type: integer
    MpsPriorityIndicator:
        Type: boolean
    McsPriorityIndicator:
        Type: boolean
    DnnIndicator:
        Type: boolean
    LboRoamingAllowed:
        Type: boolean
    SmsSubscribed:
        Type: boolean
    3GppChargingCharacteristics:
        Type: string
    DlPacketCount:
        Type: integer
        Minimum: -1
    MicoAllowed:
        Type: boolean
    SharedDataId:
        Type: string
        Pattern: '^([0-9]{5,6})-.[+}$'
    IwkEpsInd:
        Type: boolean
    SecuredPacket:
        Type: string
        format: base64
    UpuRegInd:
        Type: boolean
    ExtGroupId:
        Type: string
        Pattern: '^extgroupid-[^@]+@[^@]+$'
    NbIoTUEPriority:
        Type: integer
    CodeWord:

```

```

    Type: string
AfId:
    Type: string
LcsClientId:
    Type: string
# ENUMS:
DataSetName:
    anyOf:
      - type: string
        enum:
          - AM
          - SMF_SEL
          - UEC_SMF
          - UEC_SMSF
          - SMS_SUB
          - SM
          - TRACE
          - SMS_MNG
          - LCS_PRIVACY
          - LCS_MO
      - type: string
PduSessionContinuityInd:
    anyOf:
      - type: string
        enum:
          - MAINTAIN_PDUSESSION
          - RECONNECT_PDUSESSION
          - RELEASE_PDUSESSION
      - type: string
LocationPrivacyInd:
    anyOf:
      - type: string
        enum:
          - LOCATION_DISALLOWED
          - LOCATION_ALLOWED
      - type: string
PrivacyCheckRelatedAction:
    anyOf:
      - type: string
        enum:
          - LOCATION_NOT_ALLOWED
          - LOCATION_ALLOWED_WITH_NOTIFICATION
          - LOCATION_ALLOWED_WITHOUT_NOTIFICATION
          - LOCATION_ALLOWED_WITHOUT_RESPONSE
          - LOCATION_RESTRICTED_WITHOUT_RESPONSE
      - type: string
LcsClientClass:
    anyOf:
      - type: string
        enum:
          - BROADCAST_SERVICE
          - OM_IN_HPLMN
          - OM_IN_VPLMN
          - ANONYMOUS_LOCATION_SERVICE
          - SPECIFIC_SERVICE
      - type: string
LcsMoServiceClass:
    anyOf:
      - type: string

```

```
    enum:
      - BASIC_SELF_LOCATION
      - AUTONOMOUS_SELF_LOCATION
      - TRANSFER_TO_THIRD_PARTY
    - type: string
  OperationMode:
    anyOf:
      - type: string
      enum:
        - WB_S1
        - NB_S1
        - WB_N1
        - NB_N1
      - type: string
  SorUpdateIndicator:
    anyOf:
      - type: string
      enum:
        - INITIAL_REGISTRATION
        - EMERGENCY_REGISTRATION
      - type: string
  CodeWordInd:
    anyOf:
      - type: string
      enum:
        - CODEWORD_CHECK_IN_UE
        - CODEWORD_CHECK_IN_GMLC
      - type: string
```

External Docs

Description: 3GPP TS 29.503 Unified Data Management Services, version 16.3.0

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