



Nudm EE

- [OpenAPI, on page 1](#)
- [Info, on page 1](#)
- [Servers, on page 1](#)
- [Security, on page 1](#)
- [Paths, on page 2](#)
- [Components, on page 4](#)
- [External Docs, on page 7](#)

OpenAPI

OpenAPI Version: 3.0.0

Info

Version: '1.0.0'
Title: 'Nudm_EE'
Description: 'Nudm Event Exposure Service'

Servers

URL: '{apiRoot}/nudm-ee/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-ee
- {}
```

Paths

`/ueIdentity/ee-subscriptions`

Method: Post

Summary: Subscribe

Operation ID: CreateEeSubscription

Tags:

- Create EE Subscription

Parameters:

- **Name:** ueIdentity
- In:** path
- Description:** Represents the scope of the UE for which the subscription is applied. Contains the GPSI of the user or the external group ID or any UE.
- Required/Optional:** true
- Schema:**
 - Type:** string
 - pattern:**

```
^(msisdn-[0-9]{5,15}|.+|extid-[^@]+@[^@]+|extgroupid-[^@]+@[^@]+|anyUE)$'
```
- Request Body:**
 - Content:**
 - Application/JSON:**
 - Schema:**
 - Reference:** '#/components/schemas/EeSubscription'
 - Required/Optional:** true
- Responses:**
 - '201':
 - Description:** Expected response to a valid request
 - Content:**
 - Application/JSON:**
 - Schema:**
 - Reference:** '#/components/schemas/CreatedEeSubscription'
 - Headers:**
 - Location:**
 - description:** 'Contains the URI of the newly created resource, according to the structure: `{apiRoot}/nudm-ee/v1/{ueIdentity}/ee-subscriptions/{subscriptionId}'`
 - Required/Optional:** true
 - Schema:**
 - Type:** string
 - '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'
'501':
  Reference: 'TS29571_CommonData.yaml#/components/responses/501'
'503':
  Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Description: Unexpected error
Callbacks:
  eventOccurrenceNotification:
    '{request.body#/callbackReference}':
      Method: Post
      Request Body:
        Required/Optional: true
        Content:
          Application/JSON:
            Schema:
              Type: array
              Items:
                Reference: '#/components/schemas/MonitoringReport'
            Min Items: 1

      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

```

/{ueIdentity}/ee-subscriptions/{subscriptionId}

delete:

Summary: Unsubscribe

Operation ID: DeleteEeSubscription

Tags:

- Delete EE Subscription

Parameters:

- **Name:** ueIdentity

In: path

Description: Represents the scope of the UE for which the subscription is applied.

Contains the GPSI of the user or the external group ID or any UE.

Required/Optional: true

Schema:

Type: string

pattern:

'^(msisdn-[0-9]{5,15}|.+|extid-[^@]+@[^@]+|extgroupid-[^@]+@[^@]+|anyUE)\$'

- **Name:** subscriptionId

In: path

Description: Id of the EE 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

Components

securitySchemes:

oAuth2ClientCredentials:

Type: oauth2

Flows:

clientCredentials:

tokenUrl: '{nrfApiRoot}/oauth2/token'

scopes:

nudm-ee: Access to the nudm-ee API

schemas:

COMPLEX TYPES:

CreatedEeSubscription:

Type: object

Required:

- eeSubscription

Properties:

eeSubscription:

Reference: '#/components/schemas/EeSubscription'

numberOfUes:

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

eventReports:

```

        Type: array
        Items:
            Reference: '#/components/schemas/MonitoringReport'
        minItems: 1
EeSubscription:
    Type: object
    Required:
        - callbackReference
        - monitoringConfigurations
    Properties:
        callbackReference:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
        monitoringConfigurations:
            Description: A map (list of key-value pairs where ReferenceId serves as key) of
MonitoringConfigurations
            Type: object
            additionalProperties:
                Reference: '#/components/schemas/MonitoringConfiguration'
            minProperties: 1
            reportingOptions:
                Reference: '#/components/schemas/ReportingOptions'
            supportedFeatures:
                Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
MonitoringConfiguration:
    Type: object
    Required:
        - eventType
    Properties:
        eventType:
            Reference: '#/components/schemas/EventType'
        immediateFlag:
            Type: boolean
        locationReportingConfiguration:
            Reference: '#/components/schemas/LocationReportingConfiguration'
LocationReportingConfiguration:
    Type: object
    Required:
        - currentLocation
    Properties:
        currentLocation:
            Type: boolean
        oneTime:
            Type: boolean
        accuracy:
            Reference: '#/components/schemas/LocationAccuracy'
ReportingOptions:
    Type: object
    Properties:
        maxNumOfReports:
            Reference: '#/components/schemas/MaxNumOfReports'
        expiry:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'

```

```

MonitoringReport:
  Type: object
  Required:
    - referencId
    - eventType
    - timeStamp
  Properties:
    referenceId:
      Reference: '#/components/schemas/ReferenceId'
    eventType:
      Reference: '#/components/schemas/EventType'
    report:
      Reference: '#/components/schemas/Report'
    gpsi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
    timeStamp:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
Report:
  oneOf:
    - $ref: '#/components/schemas/ChangeOfSupiPeiAssociationReport'
    - $ref: '#/components/schemas/RoamingStatusReport'
ChangeOfSupiPeiAssociationReport:
  Type: object
  Required:
    - newPei
  Properties:
    newPei:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
RoamingStatusReport:
  Type: object
  Required:
    - roaming
    - newServingPlmn
  Properties:
    roaming:
      Type:
        boolean
    newServingPlmn:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
# SIMPLE TYPES:
ReferenceId:
  Type: integer
MaxNumOfReports:
  Type: integer
# ENUMS:
EventType:
  anyOf:
    - type: string
      enum:
        - LOSS_OF_CONNECTIVITY
        - UE_REACHABILITY_FOR_DATA
        - UE_REACHABILITY_FOR_SMS
        - LOCATION_REPORTING
        - CHANGE_OF_SUPI_PEI_ASSOCIATION
        - ROAMING_STATUS

```

```
- COMMUNICATION_FAILURE
- AVAILABILITY_AFTER_DNN_FAILURE
- type: string
LocationAccuracy:
  anyOf:
    - type: string
      enum:
        - CELL_LEVEL
        - TA_LEVEL
    - 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/'

