



# Nudm EE

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

