



# Nsmsf SMSService

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## OpenAPI

OpenAPI Version: 3.0.0

## Info

**Version:** '1.0.0'  
**Title:** 'Nsmsf\_SMSService Service API'  
**Description:** 'SMSF SMSService Service API'

## Servers

**URL:** '{apiRoot}/nsmsf-sms/v1'  
**Variables:**  
  **API Root:**  
    **Default:** https://example.com  
    **Description:** apiRoot as defined in subclause subclause 4.4 of 3GPP TS 29.501.

## Security

- oAuth2ClientCredentials:

```
- nsmsf-sms
- {}
```

## Paths

### /ue-contexts/{supi}

#### put:

**Summary:** Activate SMS Service for a given UE

**Operation ID:** SMSserviceActivation

#### Tags:

- UEContext (Document)

#### Parameters:

- **Name:** supi

**In:** path

**Required/Optional:** true

**Description:** Subscriber Permanent Identifier (SUPI)

#### Schema:

**Type:** string

#### Request Body:

##### Content:

**Application/JSON:**

##### Schema:

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

**Required/Optional:** true

#### Responses:

'201':

**Description:** UE Context for SMS is created in SMSF

##### Content:

**Application/JSON:**

##### Schema:

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

##### Headers:

##### Location:

**description:** 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nsmsf-sms/v1/ue-contexts/{supi}'

**Required/Optional:** true

##### Schema:

**Type:** string

'204':

**Description:** UE Context for SMS is updated in SMSF

'400':

**Description:** Invalid Service Request

##### Content:

**application/problem+json:**

##### Schema:

```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'403':
  Description: Unable to create/update UE Context for SMS in SMSF
  Content:
    application/problem+json:
      Schema:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'404':
  Description: Unable to found subscription for service user or UE Context for SMS
in SMSF
  Content:
    application/problem+json:
      Schema:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'503':
  Description: Service Unavailable
  Content:
    application/problem+json:
      Schema:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
Default:
  Description: Unexpected error
  Content:
    application/problem+json:
      Schema:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
delete:
  Summary: Deactivate SMS Service for a given UE
  Operation ID: SMSServiceDeactivation

Tags:
  - UEContext (Document)

Parameters:
  - Name: supi
    In: path
    Required/Optional: true
    Description: Subscriber Permanent Identifier (SUPI)
    Schema:
      Type: string

Responses:
'204':
  Description: UE Context for SMS is deleted from SMSF
'400':
  Description: Invalid Service Request
  Content:
    application/problem+json:
      Schema:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'404':
  Description: Unable to found UE Context for SMS in SMSF
```

**Content:**  
**application/problem+json:**  
**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'  
**'503':**  
**Description:** Service Unavailable  
**Content:**  
**application/problem+json:**  
**Schema:**  
**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

## /ue-contexts/{supi}/sendsms

**Method:** Post

**Summary:** Send SMS payload for a given UE

**Operation ID:** SendSMS

**Tags:**

- UEContext (Document)

**Parameters:**

- **Name:** supi

**In:** path

**Required/Optional:** true

**Description:** Subscriber Permanent Identifier (SUPI)

**Schema:**

**Type:** string

**Request Body:**

**Content:**

**Application/JSON:**

**Schema:**

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

**Required/Optional:** true

**Responses:**

**'200':**

**Description:** SMS payload is received by SMSE, and is being delivered out

**Content:**

**Application/JSON:**

**Schema:**

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

**'400':**

**Description:** Invalid Service Request

**Content:**

**application/problem+json:**

**Schema:**

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

**'403':**

**Description:** Unable to deliver SMS at SMSE

**Content:**

**application/problem+json:**

```

    Schema:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  '404':
    Description: Unable to found UE Context for SMS in SMSF
    Content:
      application/problem+json:
        Schema:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  '503':
    Description: Service Unavailable
    Content:
      application/problem+json:
        Schema:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'

```

## Components

```

securitySchemes:
  oAuth2ClientCredentials:
    Type: oauth2
    Flows:
      clientCredentials:
        tokenUrl: '{nrfApiRoot}/oauth2/token'
        scopes:
          nsmf-sms: Access to the nsmf-sms API

schemas:
  UeSmsContextData:
    Type: object
    Required:
      - supi
      - amfId
      - accessType
    Properties:
      supi:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      pei:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
      amfId:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
      guamis:
        Type: array
        Items:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/Guami'
        minItems: 1
      accessType:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
      gpsi:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
      ueLocation:

```

```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
ueTimeZone:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TimeZone'
traceData:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
backupAmfInfo:
    Type: array
    Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/BackupAmfInfo'
    minItems: 1
udmGroupId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
routingIndicator:
    Type: string
SmsRecordData:
    Type: object
    Required:
        - smsRecordId
        - smsPayloads
    Properties:
        smsRecordId:
            Reference: '#/components/schemas/RecordId'
        smsPayloads:
            Type: array
            Items:
                Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
        accessType:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
        gpsi:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
        pei:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
        ueLocation:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
        ueTimeZone:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/TimeZone'
RecordId:
    Type: string
SmsRecordDeliveryData:
    Type: object
    Required:
        - smsRecordId
        - deliveryStatus
    Properties:
        smsRecordId:
            Reference: '#/components/schemas/RecordId'
        deliveryStatus:
            Reference: '#/components/schemas/SmsDeliveryStatus'
SmsDeliveryStatus:
    Type: string
    enum:
        - SMS_DELIVERY_PENDING

```

- SMS\_DELIVERY\_COMPLETED
- SMS\_DELIVERY\_FAILED

## External Docs

**Description:** 3GPP TS 29.540 V15.2.0; 5G System; SMS Services; Stage 3

**URL:** '[http://www.3gpp.org/ftp/Specs/archive/29\\_series/29.540/](http://www.3gpp.org/ftp/Specs/archive/29_series/29.540/)'

