



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:

```
- nsmf-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}/nsmf-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/'

