



Nsmf EventExposure

- [OpenAPI, on page 1](#)
- [Info, on page 1](#)
- [Servers, on page 1](#)
- [Security, on page 1](#)
- [Paths, on page 2](#)
- [Components, on page 6](#)

OpenAPI

OpenAPI Version: 3.0.0

Info

Description: Session Management Event Exposure Service API

Version: "1.0.0"

Title: Nsmf_EventExposure

Servers

URL: '{apiRoot}/nsmf_event-exposure/v1'

Variables:

API Root:

Default: https://example.com

Description: apiRoot as defined in subclause 4.4 of 3GPP TS 29.501

Security

- {}

```
- oAuth2ClientCredentials:
  - nsmf-event-exposure
```

Paths

/subscriptions

```
Method: Post
Request Body:
  Required/Optional: true
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/NsmfEventExposure'

Responses:
  '201':
    Description: Success
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/NsmfEventExposure'
  '400':
    Reference: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
    Reference: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
    Reference: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
    Reference: 'TS29571_CommonData.yaml#/components/responses/404'
  '411':
    Reference: 'TS29571_CommonData.yaml#/components/responses/411'
  '413':
    Reference: 'TS29571_CommonData.yaml#/components/responses/413'
  '415':
    Reference: 'TS29571_CommonData.yaml#/components/responses/415'
  '429':
    Reference: 'TS29571_CommonData.yaml#/components/responses/429'
  '500':
    Reference: 'TS29571_CommonData.yaml#/components/responses/500'
  '503':
    Reference: 'TS29571_CommonData.yaml#/components/responses/503'
  Default:
    Reference: 'TS29571_CommonData.yaml#/components/responses/default'
Callbacks:
  myNotification:
    '{ $request.body#/notifUri}':
      Method: Post
      Request Body:
```

```
Required/Optional: true
Content:
  Application/JSON:
    Schema:
      Reference: '#/components/schemas/NsmfEventExposureNotification'

Responses:
  '204':
    Description: No Content, Notification was successful
  '307':
    Description: temporary redirect
  '400':
    Reference: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
    Reference: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
    Reference: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
    Reference: 'TS29571_CommonData.yaml#/components/responses/404'
  '411':
    Reference: 'TS29571_CommonData.yaml#/components/responses/411'
  '413':
    Reference: 'TS29571_CommonData.yaml#/components/responses/413'
  '415':
    Reference: 'TS29571_CommonData.yaml#/components/responses/415'
  '429':
    Reference: 'TS29571_CommonData.yaml#/components/responses/429'
  '500':
    Reference: 'TS29571_CommonData.yaml#/components/responses/500'
  '503':
    Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29571_CommonData.yaml#/components/responses/default'
```

/subscriptions/{subId}

get:

Parameters:

```
- Name: subId
  In: path
  Description: Event Subscription ID
  Required/Optional: true
  Schema:
    Type: string
```

Responses:

```
'200':
  Description: OK. Resource representation is returned
  Content:
    Application/JSON:
```

```

    Schema:
      Reference: '#/components/schemas/NsmfEventExposure'
  Headers:
    Location:
      description: 'Contains the URI of the newly created resource,
according to the structure: {apiRoot}/npcf-event-exposure/v1/subscriptions/{subId}'
      Required/Optional: true
      Schema:
        Type: string
  '400':
    Reference: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
    Reference: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
    Reference: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
    Reference: 'TS29571_CommonData.yaml#/components/responses/404'
  '406':
    Reference: 'TS29571_CommonData.yaml#/components/responses/406'
  '429':
    Reference: 'TS29571_CommonData.yaml#/components/responses/429'
  '500':
    Reference: 'TS29571_CommonData.yaml#/components/responses/500'
  '503':
    Reference: 'TS29571_CommonData.yaml#/components/responses/503'
  Default:
    Reference: 'TS29571_CommonData.yaml#/components/responses/default'
put:
  Request Body:
    Required/Optional: true
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/NsmfEventExposure'

  Parameters:
    - Name: subId
      In: path
      Description: Event Subscription ID
      Required/Optional: true
      Schema:
        Type: string

  Responses:
    '200':
      Description: OK. Resource was succesfully modified and representation is returned

      Content:
        Application/JSON:
          Schema:
            Reference: '#/components/schemas/NsmfEventExposure'
    '204':

```

Description: No Content. Resource was succesfully modified

'400':
Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':
Reference: 'TS29571_CommonData.yaml#/components/responses/401'

'403':
Reference: 'TS29571_CommonData.yaml#/components/responses/403'

'404':
Reference: 'TS29571_CommonData.yaml#/components/responses/404'

'411':
Reference: 'TS29571_CommonData.yaml#/components/responses/411'

'413':
Reference: 'TS29571_CommonData.yaml#/components/responses/413'

'415':
Reference: 'TS29571_CommonData.yaml#/components/responses/415'

'429':
Reference: 'TS29571_CommonData.yaml#/components/responses/429'

'500':
Reference: 'TS29571_CommonData.yaml#/components/responses/500'

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

Default:
Reference: 'TS29571_CommonData.yaml#/components/responses/default'

delete:

Parameters:

- **Name:** subId
In: path
Description: Event Subscription ID
Required/Optional: true
Schema:
Type: string

Responses:

'204':
Description: No Content. Resource was succesfully deleted

'400':
Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':
Reference: 'TS29571_CommonData.yaml#/components/responses/401'

'403':
Reference: 'TS29571_CommonData.yaml#/components/responses/403'

'404':
Reference: 'TS29571_CommonData.yaml#/components/responses/404'

'429':
Reference: 'TS29571_CommonData.yaml#/components/responses/429'

'500':
Reference: 'TS29571_CommonData.yaml#/components/responses/500'

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

Default:
Reference: 'TS29571_CommonData.yaml#/components/responses/default'

Components

```

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

schemas:
  NsmfEventExposure:
    Type: object
    Properties:
      supi:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      gpsi:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
      anyUeInd:
        Type: boolean
        Description: Any UE indication. This IE shall be present if the event subscription
is applicable to any UE. Default value "FALSE" is used, if not present.
      groupId:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/GroupId'
      pduSeId:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
      subId:
        Reference: '#/components/schemas/SubId'
      notifId:
        Type: string
        Description: Notification Correlation ID assigned by the NF service consumer.
      notifUri:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
      altNotifIpv4Addrs:
        Type: array
        Items:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
          Description: Alternate or backup IPv4 Address(es) where to send Notifications.
          minItems: 1
      altNotifIpv6Addrs:
        Type: array
        Items:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Addr'
          Description: Alternate or backup IPv6 Address(es) where to send Notifications.
          minItems: 1
      eventSubs:
        Type: array
        Items:

```

```

        Reference: '#/components/schemas/EventSubscription'
        minItems: 1
        Description: Subscribed events
ImmeRep:
        Type: boolean
notifMethod:
        Reference: '#/components/schemas/NotificationMethod'
maxReportNbr:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Uinteger'
expiry:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
repPeriod:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
guami:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Guami'
serviveName:
        Type: string
        Description: If the NF service consumer is an AMF, it should provide the name of
a service produced by the AMF that makes use of notifications about subscribed events.
supportedFeatures:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
Required:
- notifId
- notifUri
- eventSubs
NsmfEventExposureNotification:
Type: object
Properties:
notifId:
        Type: string
        Description: Notification correlation ID
eventNotifs:
        Type: array
        Items:
        Reference: '#/components/schemas/EventNotification'
        minItems: 1
        Description: Notifications about Individual Events
Required:
- notifId
- eventNotifs
EventSubscription:
Type: object
Properties:
event:
        Reference: '#/components/schemas/SmfEvent'
dnaiChgType:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/DnaiChangeType'
Required:
- event
EventNotification:
Type: object
Properties:
event:

```

```

    Reference: '#/components/schemas/SmfEvent'
  timeStamp:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
  supi:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
  gpsi:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
  sourceDnai:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnai'
  targetDnai:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnai'
  dnaiChgType:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DnaiChangeType'
  sourceUeIpv4Addr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
  sourceUeIpv6Prefix:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'
  targetUeIpv4Addr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
  targetUeIpv6Prefix:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'
  sourceTraRouting:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RouteToLocation'
  targetTraRouting:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RouteToLocation'
  ueMac:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/MacAddr48'
  adIpv4Addr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
  adIpv6Prefix:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'
  reIpv4Addr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
  reIpv6Prefix:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'
  plmnId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
  accType:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
  pduSeId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
  Required:
    - event
    - timeStamp
  SubId:
    Type: string
    format: SubId
  Description: Identifies an Individual SMF Notification Subscription. To enable that
    the value is used as part of a URI, the string shall only contain characters allowed
    according to the "lower-with-hyphen" naming convention defined in 3GPP TS 29.501 [2]. In
    an OpenAPI [10] schema, the format shall be designated as "SubId".
  SmfEvent:

```


anyOf:

- type: string

enum:

- AC_TY_CH
- UP_PATH_CH
- PDU_SES_REL
- PLMN_CH
- UE_IP_CH

- type: string

Description:

This string provides forward-compatibility with future extensions to the enumeration but is not used to encode content defined in the present version of this API.

Description:

Possible values are

- AC_TY_CH: Access Type Change
- UP_PATH_CH: UP Path Change
- PDU_SES_REL: PDU Session Release
- PLMN_CH: PLMN Change
- UE_IP_CH: UE IP address change

NotificationMethod:**anyOf:**

- type: string

enum:

- PERIODIC
- ONE_TIME
- ON_EVENT_DETECTION

- type: string

Description:

This string provides forward-compatibility with future extensions to the enumeration but is not used to encode content defined in the present version of this API.

Description:

Possible values are

- PERIODIC
- ONE_TIME
- ON_EVENT_DETECTION

