



EventsSubscription

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OpenAPI

OpenAPI Version: 3.0.0

Info

Description: Nnwdaf_EventsSubscription Service API

Version: "1.0.0"

Title: Nnwdaf_EventsSubscription

Servers

URL: '{apiRoot}/nnwdaf-eventssubscription/v1'

Variables:

API Root:

Default: https://example.com

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

Security

- {}

```
- oAuth2ClientCredentials:
  - nnwdaf-eventssubscription
```

Paths

/subscriptions

```
Method: Post
Request Body:
  Required/Optional: true
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/NnwdafEventsSubscription'
      Headers:
        Location:
          description: 'Contains the URI of the newly created resource,
according to the structure:
{apiRoot}/nnwdaf-eventssubscription/v1/subscriptions/{subscriptionId}'
          Required/Optional: true
          Schema:
            Type: string

Responses:
  '201':
    Description: Create a new Individual NWDAF Event Subscription resource.
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/NnwdafEventsSubscription'
  '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#/notificationURI}':
        Method: Post
        Request Body:
          Required/Optional: true
          Content:
            Application/JSON:
              Schema:
                Type: array
                Items:
                  Reference: '#/components/schemas/NnwdafEventsSubscriptionNotification'

          Min Items: 1

  Responses:
    '204':
      Description: The receipt of the Notification is acknowledged.
    '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/{subscriptionId}

delete:

Parameters:

- **Name:** subscriptionId
- In:** path

Description: String identifying a subscription to the Nnwdaf_EventsSubscription Service

Required/Optional: true

Schema:

Type: string

Responses:

'204':

Description: No Content. The Individual NWDAF Event Subscription resource matching the subscriptionId was 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':

Description: The Individual NWDAF Event Subscription resource does not exist.

Content:

application/problem+json:

Schema:

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

'429':

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

'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:

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

put:

Request Body:

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/NnwdafEventsSubscription'

Parameters:

- **Name:** subscriptionId

In: path

Description: String identifying a subscription to the Nnwdaf_EventsSubscription Service

Required/Optional: true

Schema:

Type: string

Responses:

'200':

Description: The Individual NWDAF Event Subscription resource was modified successfully and a representation of that resource is returned.

```

    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/NnwdafEventsSubscription'
'204':
  Description: The Individual NWDAF Event Subscription resource was modified
successfully.
'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':
  Description: The Individual NWDAF Event Subscription resource does not exist.
  Content:
    application/problem+json:
      Schema:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'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'
'501':
  Reference: 'TS29571_CommonData.yaml#/components/responses/501'
'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:
          nnwdaf-eventssubscription: Access to the Nnwdaf_EventsSubscription API

schemas:
  NnwdafEventsSubscription:

```

```

Type: object
Properties:
  eventSubscriptions:
    Type: array
    Items:
      Reference: '#/components/schemas/EventSubscription'
    minItems: 1
    Description: Subscribed events
  notificationURI:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schema/SupportedFeature'
Required:
  - eventSubscriptions
EventSubscription:
Type: object
Properties:
  anySlice:
    Reference: '#/components/schemas/AnySlice'
  event:
    Reference: '#/components/schemas/NwdafEvent'
  loadLevelThreshold:
    Type: integer
    Description: Shall be supplied for notification method "THRESHOLD". Indicates
that the NWDAF shall report the corresponding network slice load level to the NF service
consumer where the load level of the network slice instance identified by snssai is reached.

  notificationMethod:
    Reference: '#/components/schemas/NotificationMethod'
  repetitionPeriod:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
  snssaia:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
    minItems: 1
    Description: Identification(s) of network slice to which the subscription applies.
When subscribed event is "SLICE_LOAD_LEVEL", either information about slice(s) identified
by snssai, or anySlice set to "TRUE" shall be included.
  Required:
  - event
NnwdafEventsSubscriptionNotification:
Type: object
Properties:
  eventNotifications:
    Type: array
    Items:
      Reference: '#/components/schemas/EventNotification'
    minItems: 1
    Description: Notifications about Individual Events
  subscriptionId:
    Type: string
    Description: String identifying a subscription to the Nnwdaf_EventsSubscription

```

Service

Required:

- eventNotifications
- subscriptionId

EventNotification:**Type:** object**Properties:****event:****Reference:** '#/components/schemas/NwdafEvent'**sliceLoadLevelInfo:****Reference:** '#/components/schemas/SliceLoadLevelInformation'**Required:**

- event
- sliceLoadLevelInfo

SliceLoadLevelInformation:**Type:** object**Properties:****loadLevelInformation:****Reference:** '#/components/schemas/LoadLevelInformation'**snssais:****Type:** array**Items:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/Snssai'**minItems:** 1**Description:** Identification(s) of network slice to which the subscription.**Required:**

- loadLevelInformation
- snssais

AnySlice:**Type:** boolean**Description:** FALSE represents not applicable for all slices. TRUE represents applicable for all slices.**LoadLevelInformation:****Type:** integer**Description:** Load level information of the network slice instance.**NotificationMethod:****anyOf:**

- type: string

enum:

- PERIODIC
- THRESHOLD

- 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: The subscribe of NWDAF Event is periodically. The periodic of the notification is identified by repetitionPeriod defined in subclause 5.1.6.2.3.
- THRESHOLD: The subscribe of NWDAF Event is upon threshold exceeded. The threshold of the notification is identified by loadLevelThreshold defined in subclause 5.1.6.2.3.

NwdafEvent:**anyOf:**

- type: string

enum:

- SLICE_LOAD_LEVEL
- 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

- SLICE_LOAD_LEVEL: Indicates that the event subscribed is load level information of Network Slice instance

External Docs

Description: 3GPP TS 29.520 V15.2.0; 5G System; Network Data Analytics Services.

URL: 'http://www.3gpp.org/ftp/Specs/archive/29_series/29.520/'