



# EventExposure

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## OpenAPI

OpenAPI Version: 3.0.0

## Info

**Description:** Policy Control Event Exposure Service API

**Version:** "1.0.0"

**Title:** Npcf\_EventExposure

## Servers

**URL:** '{apiRoot}/npcf-eventexposure/v1'

**Variables:**

**API Root:**

**Default:** https://example.com

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

## Security

- {}

```
- oAuth2ClientCredentials:
  - npcfeventexposure
```

# Paths

## /subscriptions

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

Responses:
  '201':
    Description: Success
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/PcEventExposureSubsc'
    Headers:
      Location:
        description: 'Contains the URI of the created individual policy
control events subscription resource, according to the structure:
{apiRoot}/npcfeventexposure/v1/subscriptions/{subscriptionId}'
        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'
  '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:
    PcEventNotification:
      '{$request.body#/notifUri}':
        Method: Post
        Request Body:
          Required/Optional: true
          Content:
            Application/JSON:
              Schema:
                Reference: '#/components/schemas/PcEventExposureNotif'

  Responses:
    '204':
      Description: No Content, Notification was succesfull
    '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}

get:

Parameters:

- Name: subscriptionId
- In: path
- Description: Policy Control Event Subscription ID
- Required/Optional: true
- Schema:

**Type:** string

**Responses:**

'200':

**Description:** OK. Resource representation is returned

**Content:**

**Application/JSON:**

**Schema:**

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

'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/PcEventExposureSubsc'

**Parameters:**

- **Name:** subscriptionId

**In:** path

**Description:** Policy Control 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/PcEventExposureSubsc'

'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:** subscriptionId  
**In:** path  
**Description:** Policy Control 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:
          npcf-eventexposure: Access to the Npcf_EventExposure API.

schemas:
  PcEventExposureNotif:
    Type: object
    Properties:
      notifId:
        Type: string
      eventNotifs:
        Type: array
        Items:
          Reference: '#/components/schemas/PcEventNotification'
          minItems: 1
    Required:
      - notifId
      - eventNotifs
  PcEventExposureSubsc:
    Type: object
    Properties:
      eventSubscs:
        Type: array
        Items:
          Reference: '#/components/schemas/PcEvent'
          minItems: 1
      eventsRepInfo:
        Reference: '#/components/schemas/ReportingInformation'
      groupId:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/GroupId'
      filterDnns:
        Type: array
        Items:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
          minItems: 1
      filterSnssais:
        Type: array
        Items:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
          minItems: 1
      filterServices:
        Type: array

```

```

    Items:
      Reference: '#/components/schemas/ServiceIdentification'
    minItems: 1
  notifUri:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Link'
  notifId:
    Type: string
  suppFeat:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
Required:
- eventSubs
- notifId
- notifUri
ReportingInformation:
  Type: object
  Properties:
    immRep:
      Type: boolean
    notifMethod:
      Reference: 'TS29508_Nsmf_EventExposure.yaml#/components/schemas/NotificationMethod'

    maxReportNbr:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UInteger'
    monDur:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
    repPeriod:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
ServiceIdentification:
  Type: object
  Properties:
    servEthFlows:
      Type: array
      Items:
        Reference: '#/components/schemas/EthernetFlowInfo'
      minItems: 1
    servIpFlows:
      Type: array
      Items:
        Reference: '#/components/schemas/IpFlowInfo'
      minItems: 1
    afAppId:
      Reference: 'TS29514_Npcf_PolicyAuthorization.yaml#/components/schemas/AfAppId'
EthernetFlowInfo:
  Type: object
  Properties:
    ethFlows:
      Type: array
      Items:
        Reference:
'TS29514_Npcf_PolicyAuthorization.yaml#/components/schemas/EthFlowDescription'
      minItems: 1
      maxItems: 2

```

```

    flowNumber:
      Type: integer
    Required:
      - flowNumber
  IpFlowInfo:
    Type: object
    Properties:
      ipFlows:
        Type: array
        Items:
          Reference:
            'TS29514_Npcf_PolicyAuthorization.yaml#/components/schemas/FlowDescription'
          minItems: 1
          maxItems: 2
          flowNumber:
            Type: integer
        Required:
          - flowNumber
  PcEventNotification:
    Type: object
    Properties:
      event:
        Reference: '#/components/schemas/PcEvent'
      accType:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
      ratType:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
      plmnId:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
      timeStamp:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
      pduSessionInfo:
        Reference: '#/components/schemas/PduSessionInformation'
      repServices:
        Reference: '#/components/schemas/ServiceIdentification'
    Required:
      - event
      - timeStamp
  PduSessionInformation:
    Type: object
    Properties:
      snssai:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
      dnn:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
      ueIpv4:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
      ueIpv6:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'
      ipDomain:
        Type: string
      ueMac:

```



```
    Reference: 'TS29571_CommonData.yaml#/components/schemas/MacAddr48'  
    Required:  
      - snssai  
      - dnn  
# Simple data types and Enumerations  
PcEvent:  
  anyOf:  
    - type: string  
    enum:  
      - AC_TY_CH  
      - PLMN_CH  
    - type: string
```

