



# CAPIF Events API

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## OpenAPI

OpenAPI Version: 3.0.0

## Info

**Title:** CAPIF\_Events\_API

**Description:** This API enables the Subscriber to communicate with the CAPIF core function to subscribe to and unsubscribe from CAPIF events, and receive subsequent notifications of CAPIF events.

**Version:** "1.0.0"

## Servers

**URL:** '{apiRoot}/capif-events/v1'

**Variables:**

**API Root:**

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

**Description:** apiRoot as defined in subclause 7.5 of 3GPP TS 29.222

# Paths

## `{subscriberId}/subscriptions`

**Method:** Post

**Description:** Creates a new individual CAPIF Event Subscription.

**Parameters:**

- **Name:** subscriberId

**In:** path

**Description:** Identifier of the Subscriber

**Required/Optional:** true

**Schema:**

**Type:** string

**Request Body:**

**Required/Optional:** true

**Content:**

**Application/JSON:**

**Schema:**

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

**Callbacks:**

**notificationDestination:**

**'{request.body#/notificationDestination}':**

**Method:** Post

**Request Body:** # contents of the callback message

**Required/Optional:** true

**Content:**

**Application/JSON:**

**Schema:**

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

**Responses:**

**'204':**

**Description:** No Content (successful notification)

**'400':**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'

**'401':**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'

**'403':**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

**'404':**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'

**'411':**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/411'

**'413':**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/413'

**'415':**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/415'

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'429':
  Reference: 'TS29122_CommonData.yaml#/components/responses/429'
'500':
  Reference: 'TS29122_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29122_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29122_CommonData.yaml#/components/responses/default'

```

**Responses:**

```

'201':
  Description: Created (Successful creation of subscription)
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/EventSubscription'
      Headers:
        Location:
          description: 'Contains the URI of the newly created resource,
according to the structure:
{apiRoot}/capif-events/v1/{subscriberId}/subscriptions/{subscriptionId}'
          Required/Optional: true
          Schema:
            Type: string
'400':
  Reference: 'TS29122_CommonData.yaml#/components/responses/400'
'401':
  Reference: 'TS29122_CommonData.yaml#/components/responses/401'
'403':
  Reference: 'TS29122_CommonData.yaml#/components/responses/403'
'404':
  Reference: 'TS29122_CommonData.yaml#/components/responses/404'
'411':
  Reference: 'TS29122_CommonData.yaml#/components/responses/411'
'413':
  Reference: 'TS29122_CommonData.yaml#/components/responses/413'
'415':
  Reference: 'TS29122_CommonData.yaml#/components/responses/415'
'429':
  Reference: 'TS29122_CommonData.yaml#/components/responses/429'
'500':
  Reference: 'TS29122_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29122_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29122_CommonData.yaml#/components/responses/default'

```

**/{subscriberId}/subscriptions/{subscriptionId}**

**delete:**

**Description:** Deletes an individual CAPIF Event Subscription.

**Parameters:**

- **Name:** subscriberId  
**In:** path  
**Description:** Identifier of the Subscriber  
**Required/Optional:** true  
**Schema:**  
**Type:** string
- **Name:** subscriptionId  
**In:** path  
**Description:** Identifier of an individual Events Subscription  
**Required/Optional:** true  
**Schema:**  
**Type:** string

**Responses:**

- '204':  
**Description:** The individual CAPIF Events Subscription matching the subscriptionId is deleted.
- '400':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'
- '401':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'
- '403':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'
- '404':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'
- '429':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'
- '500':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'
- '503':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'
- Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

## Components

**schemas:**

**EventSubscription:**

- Type:** object
- Properties:**
  - events:**
    - Type:** array
    - Items:**
      - Reference:** '#/components/schemas/CAPIFEvent'
    - minItems:** 1
    - Description:** Subscribed events

**notificationDestination:****Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Uri'**requestTestNotification:****Type:** boolean**Description:** Set to true by Subscriber to request the CAPIF core function to send a test notification as defined in in subclause 7.6. Set to false or omitted otherwise.**websocketNotifConfig:****Reference:** 'TS29122\_CommonData.yaml#/components/schemas/WebsocketNotifConfig'**supportedFeatures:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'**Required:**

- events
- notificationDestination

**EventNotification:****Type:** object**Properties:****subscriptionId:****Type:** string**Description:** Identifier of the subscription resource to which the notification is related - CAPIF resource identifier**events:****Reference:** '#/components/schemas/CAPIFEvent'**Required:**

- subscriptionId
- events

**CAPIFEvent:****anyOf:**

- type: string

**enum:**

- SERVICE\_API\_AVAILABLE
  - SERVICE\_API\_UNAVAILABLE
  - SERVICE\_API\_UPDATE
  - API\_INVOKER\_ONBOARDED
  - API\_INVOKER\_OFFBOARDED
  - SERVICE\_API\_INVOCATION\_SUCCESS
  - SERVICE\_API\_INVOCATION\_FAILURE
  - ACCESS\_CONTROL\_POLICY\_UPDATE
  - ACCESS\_CONTROL\_POLICY\_UNAVAILABLE
  - API\_INVOKER\_AUTHORIZATION\_REVOKED
- 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

- SERVICE\_API\_AVAILABLE: Events related to the availability of service APIs after the service APIs are published.
- SERVICE\_API\_UNAVAILABLE: Events related to the unavailability of service APIs after the service APIs are unpublished.
- SERVICE\_API\_UPDATE: Events related to change in service API information.
- API\_INVOKER\_ONBOARDED: Events related to API invoker onboarded to CAPIF.
- API\_INVOKER\_OFFBOARDED: Events related to API invoker offboarded from CAPIF.
- SERVICE\_API\_INVOCATION\_SUCCESS: Events related to the successful invocation of service APIs.
- SERVICE\_API\_INVOCATION\_FAILURE: Events related to the failed invocation of service APIs.
- ACCESS\_CONTROL\_POLICY\_UPDATE: Events related to the update for the access control

policy related to the service APIs. - ACCESS\_CONTROL\_POLICY\_UNAVAILABLE: Events related to the unavailability of the access control policy related to the service APIs.  
- API\_INVOKER\_AUTHORIZATION\_REVOKED: Events related to the revocation of the authorization of API invokers to access the service APIs.

## External Docs

**Description:** 3GPP TS 29.222 V15.2.0 Common API Framework for 3GPP Northbound APIs

**URL:** [http://www.3gpp.org/ftp/Specs/archive/29\\_series/29.222/](http://www.3gpp.org/ftp/Specs/archive/29_series/29.222/)