

Microsoft Graph Events

Last Modified on 12/30/2019 8:47 pm EST

SAP Cloud Platform Open Connectors supports events via polling or webhooks depending on the API provider. For more information about our Events framework, see [Events Overview](#).

Supported Events and Resources

SAP Cloud Platform Open Connectors supports webhook events for Microsoft Graph. After receiving an event, SAP Cloud Platform Open Connectors standardizes the payload and sends an event to the configured callback URL of your authenticated connector instance. For more information about webhooks at Microsoft including the currently available webhooks, see [their webhooks documentation](#).

Configure Webhooks Through the UI

To configure webhooks through the UI, follow the same steps to authenticate a connector instance, and then turn on events. For more information, see [Authenticate an Connector Instance with Events \(UI\)](#) or the connector-specific authentication topic.

Configure Webhooks Through API

Use the `/instances` endpoint to authenticate with Microsoft and create a connector instance with webhooks enabled.

Note: The endpoint returns a connector instance token and id upon successful completion. Retain the token and id for all subsequent requests involving this connector instance.

To authenticate a connector instance with webhooks:

1. Get an authorization grant code by completing the steps in [Getting a redirect URL and Authenticating users and receiving the authorization grant code](#).
2. Construct a JSON body as shown below (see [Parameters](#)):

```
{
  "element": {
    "key": "microsoftgraph"
  },
  "providerData": {
    "code": ""
  },
  "configuration": {
    "oauth.callback.url": "",
    "oauth.api.key": "",
    "oauth.api.secret": "",
    "oauth.scope": "Calendars.Read Calendars.ReadWrite offline_access",
    "event.notification.enabled": true,
    "event.notification.callback.url": ""
  },
  "tags": [
    ""
  ],
  "name": ""
}
```

3. Call the following, including the JSON body you constructed in the previous step:

```
POST /instances
```

Note: Make sure that you include the User and Organization keys in the header. For more information, see [Authorization Headers, Organization Secret, and User Secret](#).

4. Locate the `token` and `id` in the response and save them for all future requests using the connector instance.

Example cURL

```

curl -X POST \
  https://api.openconnectors.us2.ext.hana.ondemand.com/elements/api-v2/instances \
  -H 'authorization: User , Organization ' \
  -H 'content-type: application/json' \
  -d '{
  "element": {
    "key": "microsoftgraph"
  },
  "providerData": {
    "code": "xoz8AFqScK2ngM04kSSM"
  },
  "configuration": {
    "oauth.callback.url": "https://mycoolapp.com",
    "oauth.api.key": "xxxxxxxxxxxxxxxxxxxx",
    "oauth.api.secret": "xxxxxxxxxxxxxxxxxxxx",
    "oauth.scope": "Calendars.Read Calendars.ReadWrite offline_access",
    "event.notification.enabled": true,
    "event.notification.callback.url": "https://mycoolapp.com/events"
  },
  "tags": [
    "Docs"
  ],
  "name": "API Instance"
}'

```

Parameters

API parameters not shown in the SAP Cloud Platform Open Connectors are in

`code formatting` .

Parameter	Description	Data Type
<code>key</code>	The connector key. microsoftgraph	string
<code>code</code>	The authorization grant code returned from the API provider in an OAuth 2.0 authentication workflow. SAP Cloud Platform Open Connectors uses the code to retrieve the OAuth access and refresh tokens from the endpoint.	string

Name Parameter	Description	Data Type
<code>oauth.api.key</code>	The API key or client ID obtained from registering your app with the provider. This is the Key Name that you recorded in API Provider Setup .	string
<code>oauth.api.secret</code>	The client secret obtained from registering your app with the API provider. This is the Secret Name that you recorded in API Provider Setup .	string
<code>oauth.callback.url</code>	The URL that the API provider returns a user to after they authorize access. This is the Callback URL Name that you recorded in API Provider Setup .	string
Events Enabled <code>event.notification.enabled</code>	<i>Optional.</i> Identifies that events are enabled for the connector instance. Default: <code>false</code> .	boolean
Event Notification Callback URL <code>event.notification.callback.url</code>	The URL where you want SAP Cloud Platform Open Connectors to send the events.	string
Event Notification Signature Key <code>event.notification.signature.key</code>	<i>Optional.</i> A user-defined key for added security to show that events have not been tampered with.	string
tags	<i>Optional.</i> User-defined tags to further identify the instance.	string