QuickBooks Online Events

Last Modified on 01/19/2021 12:42 pm EST

On this page

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 polling events and webhooks for QuickBooks Online. 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.

Polling

You can set up polling for the events resource. You can also copy the events configuration to poll other resources. See Configure Polling Through API for more information.

1 Note: Unless configured for a specific time zone, polling occurs in UTC.

You can set up events for the following resources:

- bill-payments
- bills
- classes
- credit-memos
- credit-terms
- currencies
- customers
- employees
- invoices
- journal-entries
- ledger-accounts
- payment-methods
- payments
- products
- purchase-orders
- refund-receipts
- sales-receipts
- tax-codes
- tax-rates
- time-activities
- vendor-credits
- vendors

Configure Polling Through the UI

To configure polling through the UI, follow the same steps to authenticate a connector instance, and then turn on events. Select the resources to poll, and then click **Create Instance**. For more information, see Authenticate an Connector Instance with Events (UI) or the connector-specific authentication topic. After successfully authenticating, we give you several options for next steps. Make requests using the API docs associated with the instance, map the instance to a common object, or use it in a formula template.

Configure Polling Through API

Use the /instances endpoint to authenticate with QuickBooks Online and create a connector instance with polling enabled.

O 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 polling:

- 1. Complete the authentication steps for the authentication up to constructing the final authentication JSON body.
- 2. Construct a JSON body as shown below (see Parameters):

"key":"quickbooks"
"providerData":{
"code": "",
"realmId": ""
"oauth.callback.url": "",
"oauth.api.secret": "",
"authentication.type" : "oauth2",
"scope" : "com.intuit.quickbooks.accounting openid profile email phone address",
"event.notification.enabled": true,
"event.vendor.type": "polling",
"event.notification.callback.url": "https://api.openconnectors.us2.ext.hana.ondemand.
com/elements/api-v2/events/quickbooks/",
"event.notification.signature.key": "",
"event.poller.refresh_interval": "15",
"event.poller.urls": "bill-paymentsbillsclassescredit-memoscredit-termscurrenciescust
${\tt omersemployeesinvoicesjournal-entriesledger-accountspayment-methodspaymentsproductspurchase-}$
$orders refund-receipts {\tt sales-receiptstax-codestax-ratestime-activities vendor-credits vendors"}$
"tags":[

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

POST /instances	
ONote: 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 with Polling

Polling Parameters

API parameters not shown in SAP Cloud Platform Open Connectors are in code formatting.

Parameter	Description	Data Type
Events Enabled event.notification.enabled	<i>Optional.</i> Identifies that events are enabled for the connector instance. Default: false .	boolean
Vendor Event Type event.vendor.type	<i>Optional.</i> Identifies the type of events enabled for the instance, either webhook or polling.	string
Event Notification Callback URL event.notification.callback.url	The URL where you want SAP Cloud Platform Open Connectors to send the events.	string
Callback Notification Signature Key event.notification.signature.key	<i>Optional.</i> A user-defined key for added security to show that events have not been tampered with.	string
Event poller refresh interval (mins)	A number in minutes to identify how often the poller should	number

event.poller.refresh_interval Parameter event.poller.urls	check for changes. Description The objects that should be polled.	Data Type
tags	Optional. User-defined tags to further identify the instance.	string

Webhooks

You can configure webhooks through the UI or in the JSON body of the /instances API request.

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

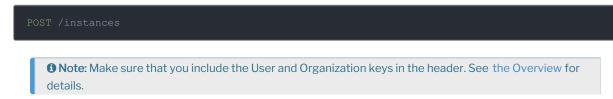
Use the /instances endpoint to authenticate with and create a connector instance with webhooks enabled.

1 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):

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



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

Example cURL with Polling

curl -X POST \
https://api.openconnectors.us2.ext.hana.ondemand.com/elements/api-v2/instances \
-H 'authorization: User , Organization ' \
-H authorization. User, Organization (-H 'content-type: application/json' \
-d '{
"element": {
"key": "quickbooks"
},
"providerData": {
"code": "xxxxxxxxxxxxxxxxxxxxxx",
"realmId": "xxxxxxxxxxxxxxx"
},
"configuration": {
"oauth.callback.url": "https;//mycoolapp.com",
"oauth.api.key": "xxxxxxxxxxxxxxxx",
"oauth.api.secret": "xxxxxxxxxxxxxxxxxxxxxxx"
"authentication.type" : "oauth2",
"scope" : "com.intuit.quickbooks.accounting openid profile email phone address",
"event.notification.enabled": true,
"event.vendor.type": "webhook",
"event.notification.callback.url": "https://api.openconnectors.us2.ext.hana.ondemand.com/elem
ents/api-v2/events/quickbooks/",
"event.notification.signature.key": "xxxxxxxxxxxxxxxxxxxxxx"
},
"tags": [
"Docs"
],
"name": "API Instance"
}'

Webhook Parameters

API parameters not shown in the SAP Cloud Platform Open Connectors are in $\[code formatting]$.

Parameter	Description	Data Type
Events Enabled event.notification.enabled	<i>Optional</i> Identifies that events are enabled for the connector instance. Default: false.	boolean
Vendor Event Type event.vendor.type	<i>Optional</i> Identifies the type of events enabled for the instance, either webhook or polling.	string
Event Notification Callback URL event.notification.callback.url	The URL where you want SAP Cloud Platform Open Connectors to send the events.	string

Callback Notification Signature Key Parameter Variation.signature.key	Optional. A user-defined key for added security to show that Description not been tampered with.	Data _g Type
tags	Optional. User-defined tags to further identify the instance.	string