

Syncplicity Events

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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 for files and folders using the Syncplicity connector. In the downstream service, we use Syncplicity's `GET /sync/newsfeed.svc/{syncPointId}` API to retrieve event notifications on each syncpoint in your tenant.

Note: Syncplicity has a rate limit of 180 API calls per/min. While polling for each syncpoint, the vendor may throw an error with the 429 status code i.e error due to too many requests.

Supported `event types` from Syncplicity, along with the normalized SAP Cloud Platform Open Connectors events, are listed in the below map:

```
{
  "1": {
    "vendorType": "FileCorrupted",
    "eventType": "UNKNOWN"
  },
  "2": {
    "vendorType": "FileCreated",
    "eventType": "CREATED"
  },
  "3": {
    "vendorType": "FileUpdated",
    "eventType": "UPDATED"
  },
  "4": {
    "vendorType": "FileDeleted",
    "eventType": "DELETED"
  },
  "5": {
    "vendorType": "DirCreated",
    "eventType": "CREATED"
  },
  "6": {
    "vendorType": "DirDeleted",
    "eventType": "DELETED"
  },
  "7": {
    "vendorType": "FileRestored",
    "eventType": "UPDATED"
  },
  "8": {
    "vendorType": "DirRestored",
    "eventType": "UPDATED"
  },
  "9": {
    "vendorType": "VirtualFolderRestored",
    "eventType": "UPDATED"
  },
  "10": {
```

```
    "vendorType": "VirtualFolderMapped",
    "eventType": "UPDATED"
  },
  "11": {
    "vendorType": "VirtualFolderUnmapped",
    "eventType": "UPDATED"
  },
  "12": {
    "vendorType": "FileRecreated",
    "eventType": "CREATED"
  },
  "13": {
    "vendorType": "DirRecreated",
    "eventType": "CREATED"
  },
  "14": {
    "vendorType": "NewsFeedArchived",
    "eventType": "UPDATED"
  },
  "15": {
    "vendorType": "FileDeletedPurged",
    "eventType": "DELETED"
  },
  "16": {
    "vendorType": "FilePreviousVersionPurged",
    "eventType": "UPDATED"
  },
  "17": {
    "vendorType": "VirtualFolderOwnerChanged",
    "eventType": "UPDATED"
  },
  "18": {
    "vendorType": "VirtualFolderDeleted",
    "eventType": "DELETED"
  },
  "19": {
    "vendorType": "VirtualFolderCreated",
    "eventType": "CREATED"
  },
  "20": {
    "vendorType": "DirPurged",
    "eventType": "DELETED"
  },
  "21": {
    "vendorType": "FileBranched",
    "eventType": "UPDATED"
  },
  "22": {
    "vendorType": "DirMoved",
    "eventType": "UPDATED"
  },
  "23": {
    "vendorType": "FileMoved",
    "eventType": "UPDATED"
  },
  "24": {
    "vendorType": "DirRenamed",
    "eventType": "UPDATED"
  },
  "25": {
    "vendorType": "FileRenamed",
    "eventType": "UPDATED"
  },
  "26": {
```

```
    "vendorType": "DirMovedAndRenamed",
    "eventType": "UPDATED"
  },
  "27": {
    "vendorType": "FileMovedAndRenamed",
    "eventType": "UPDATED"
  },
  "28": {
    "vendorType": "FileCreatedByMove",
    "eventType": "CREATED"
  },
  "29": {
    "vendorType": "FileCreatedByMoveAndRename",
    "eventType": "CREATED"
  },
  "30": {
    "vendorType": "FileDeletedByMove",
    "eventType": "DELETED"
  },
  "31": {
    "vendorType": "FileDeletedByMoveAndRename",
    "eventType": "DELETED"
  },
  "32": {
    "vendorType": "DirCreatedByMove",
    "eventType": "CREATED"
  },
  "33": {
    "vendorType": "DirCreatedByMoveAndRename",
    "eventType": "CREATED"
  },
  "34": {
    "vendorType": "DirDeletedByMove",
    "eventType": "DELETED"
  },
  "35": {
    "vendorType": "DirDeletedByMoveAndRename",
    "eventType": "DELETED"
  },
  "36": {
    "vendorType": "SharedLinkCreationBlockedByDlpPolicy",
    "eventType": "UNKNOWN"
  },
  "37": {
    "vendorType": "SharedLinkCreationUserWarnedByDlpPolicy",
    "eventType": "UNKNOWN"
  },
  "38": {
    "vendorType": "AccessViaSharedLinkBlockedByDlpPolicy",
    "eventType": "UNKNOWN"
  },
  "39": {
    "vendorType": "AccessViaSharedLinkUserWarnedByDlpPolicy",
    "eventType": "UNKNOWN"
  },
  "40": {
    "vendorType": "AccessViaFolderBlockedByDlpPolicy",
    "eventType": "UNKNOWN"
  },
  "41": {
    "vendorType": "AccessViaFolderUserWarnedByDlpPolicy",
    "eventType": "UNKNOWN"
  },
  "42": {
```

```
    "vendorType": "DirectoryShareBlockedByDlpPolicy",
    "eventType": "UNKNOWN"
  },
  "53": {
    "vendorType": "DeletedFileRenamed",
    "eventType": "UPDATED"
  },
  "54": {
    "vendorType": "DeletedFolderRenamed",
    "eventType": "UPDATED"
  },
  "55": {
    "vendorType": "ScanStatusSet",
    "eventType": "UNKNOWN"
  },
  "56": {
    "vendorType": "VirtualFolderRenamed",
    "eventType": "UPDATED"
  },
  "60": {
    "vendorType": "FileTagAdded",
    "eventType": "UPDATED"
  },
  "61": {
    "vendorType": "FileTagRemoved",
    "eventType": "UPDATED"
  },
  "62": {
    "vendorType": "FileMetaDataAdded",
    "eventType": "UPDATED"
  },
  "63": {
    "vendorType": "FileMetaDataRemoved",
    "eventType": "UPDATED"
  },
  "64": {
    "vendorType": "FileMetaDataUpdated",
    "eventType": "UPDATED"
  },
  "65": {
    "vendorType": "FolderTagAdded",
    "eventType": "UPDATED"
  },
  "66": {
    "vendorType": "FolderTagRemoved",
    "eventType": "UPDATED"
  },
  "67": {
    "vendorType": "FolderMetaDataAdded",
    "eventType": "UPDATED"
  },
  "68": {
    "vendorType": "FolderMetaDataRemoved",
    "eventType": "UPDATED"
  },
  "69": {
    "vendorType": "FolderMetaDataUpdated",
    "eventType": "UPDATED"
  },
  "70": {
    "vendorType": "VirtualFolderMetadataPurged",
    "eventType": "UPDATED"
  }
}
```

Note that, unless configured for a specific time zone, polling occurs in UTC.

The event notification payload also contains a parameter called `eventSource`. Below is the list of EventSource values available for Syncplicity:

- 0 - Unknown
- 1 - Another machine or Another User
- 2 - Same machine that is making the request
- 3 - Same User, but different machine

Configure Polling Through the UI

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

Note: Events for the Syncplicity connector cannot be configured in the SAP Cloud Platform Open Connectors UI. Any Syncplicity events created using the UI will receive requests for both folders and files. If you want to configure events for only files or folders, you must use the API; see [Configure Polling Through API](#) for more information.

Configure Polling Through API

Use the `/instances` endpoint to authenticate with Syncplicity and create a connector instance with polling 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 polling:

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": "syncplicity"
  },
  "providerData": {
    "code": ""
  },
  "configuration": {
    "authentication.type": "",
    "syncplicity.user.email": "",
    "oauth.api.key": "",
    "oauth.api.secret": "",
    "oauth.callback.url": "",
    "event.notification.enabled": true,
    "event.notification.callback.url": "",
    "event.poller.refresh_interval": "",
    "event.poller.configuration": {
      "messages": {
        "url": "/hubs/documents/events/poll/documents",
        "idField": "id",
        "datesConfiguration": {
          "updatedAtField": "modification_date",
          "updatedAtFormat": "yyyy-MM-dd'T'HH:mm:ss.SSS'Z'",
          "updatedAtTimezone": "GMT",
          "createdAtField": "creation_date",
          "createdAtFormat": "yyyy-MM-dd'T'HH:mm:ss.SSS'Z'",
          "createdAtTimezone": "GMT"
        }
      }
    }
  },
  "tags": [
    ""
  ],
  "name": ""
}
```

The above example presumes OAuth2 authentication; if you want to configure polling through API using custom authentication, you can append the above event-related parameters to the custom authentication examples shown in [Syncplicity Authenticate a Connector](#).

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 with Polling

```
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": "syncplicity"
  },
  "providerData": {
    "code": ""
  },
  "configuration": {
    "authentication.type": "oauth2",
    "syncplicity.user.email": "",
    "oauth.api.key": "",
    "oauth.api.secret": "",
    "oauth.callback.url": "https://auth.cloudelements.io/oauth",
    "event.notification.enabled": true,
    "event.notification.callback.url": "https://mycoolapp.com",
    "event.poller.refresh_interval": "10",
    "event.poller.configuration": {
      "documents": {
        "url": "/hubs/documents/events/poll/documents",
        "idField": "id",
        "datesConfiguration": {
          "updatedAtField": "modification_date",
          "updatedAtFormat": "yyyy-MM-dd'T'HH:mm:ss.SSS'Z'",
          "updatedAtTimezone": "GMT",
          "createdAtField": "creation_date",
          "createdAtFormat": "yyyy-MM-dd'T'HH:mm:ss.SSS'Z'",
          "createdAtTimezone": "GMT"
        }
      }
    }
  },
  "tags": [
    "Docs"
  ],
  "name": "API Instance with Polling"
}
```

Parameters

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

Parameter	Description	Data Type
<code>key</code>	The connector key. syncplicity	string
Name <code>name</code>	The name of the connector instance created during authentication.	Body
Authentication type <code>authentication.type</code>	<p>The type of authentication you want to use to authenticate. Options are <code>oauth2</code> or <code>custom</code> . The cURL examples in this article presume oauth2; see Syncplicity Authenticate a Connector for more information about authenticating.</p> <p>Note: If you are using <code>custom</code> authentication,</p>	string

Syncplicity User Email Parameter <code>syncplicity.user.email</code>	Description The provisioning user's email used to sign in to Syncplicity. This is used to send requests to determine the proper API gateway.	Data string Type
API Key <code>oauth.api.key</code>	The Syncplicity API Key that you noted in Syncplicity API Provider Setup .	string
API Secret <code>oauth.api.secret</code>	The Syncplicity API Secret that you noted in Syncplicity API Provider Setup .	string
OAuth Callback URL <code>oauth.callback.url</code>	The API key or client ID obtained from registering your app with the provider. This is <code>https://auth.cloudelements.io/oauth</code>	string
Events Enabled <code>event.notification.enabled</code>	Optional. 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 poller refresh interval (mins) <code>event.poller.refresh_interval</code>	A number in minutes to identify how often the poller should check for changes.	number
Configure Polling <code>event.poller.configuration</code>	Optional. Configuration parameters for polling.	JSON object
Resource to Poll	The polling event configuration of the resource that you will monitor.	JSON object
URL <code>url</code>	The url to query for updates to the resource.	String
ID Field <code>idField</code>	The field in the resource that is used to uniquely identify it.	String
Advanced Filtering <code>datesConfiguration</code>	Configuration parameters for dates in polling	JSON Object
Updated Date Field <code>updatedAtField</code>	The field that identifies an updated object.	String
Updated Date Format <code>updatedAtFormat</code>	The date format of the field that identifies an updated object.	String
Created Date Field <code>createdAtField</code>	The field that identifies a created object.	String
Created Date Format <code>createdAtFormat</code>	The date format of the field that identifies a created object.	String
tags	Optional. User-defined tags to further identify the instance.	string