Configuration Guide
Integration between SAP Ariba and OpenText
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English

CUSTOMER

Integration between SAP Ariba and OpenText

Content

1 Prerequisites

This content is connecting to a Third Party system called OpenText. Please be aware of the fact that you might need to consult an OpenText expert and conduct some configuration steps in the Third Party system, that aren't defined here.

This content is also connecting to SAP Ariba APIs according to SAP Ariba Developer Portal. You might also involve an SAP Ariba expert for this set up:

- Enabling the APIs and retrieving API keys
- Adding customer specific fields

2 Documentation

This package retrieves data related to purchase requisition, purchase orders as well as sourcing projects from SAP Ariba API and replicates it into a specific workspace in OpenText.

The following SAP Ariba APIs are used:

- Operational Reporting for Procurement - Job Submission API
  - This API is used for the retrieving purchase requisition and purchase order data. It is an asynchronous call.
- Operational Reporting for Procurement - Job Results API
  - This API is used for the retrieving purchase requisition and purchase order data.
  - As alternative one could also use the Operational Reporting for Procurement - Synchronous API
    In that case, please consider the API limits
- Operational Reporting for Sourcing - Synchronous API
  - This API is used for retrieving all sourcing projects within a defined time range. It is a synchronous call. A custom template view has been used for this purpose, e.g. https://eu.openapi.ariba.com/api/sourcing-reporting-details/v1/prod/views/OpenTextSourcingProjectView
- External Approval API for Sourcing and Supplier Management
  - This API is used for retrieving specific information for a single document. It is a synchronous call.
    - E.g. for a single sourcing project https://eu.openapi.ariba.com/api/sourcing-approval/v1/prod/Document/${property.SourcingID}
    - E.g. for a single contract workspace: https://eu.openapi.ariba.com/api/sourcing-approval/v1/prod/ContractWorkspace/${property.DocID}

This package includes 9 Iflows:

- *Timer_Triggers Iflows to submit job request for PR Report and PO Report in SAP Ariba*

  This Iflow triggers the following Iflow to submit the job request in SAP Ariba for PRReport and POReport:
  - ProcessDirect_Create Ariba Purchase Request Report
  - ProcessDirect_Create Ariba Purchase Order Report

- *Timer _Triggers Iflows to replicate PO and PR from SAP Ariba to OpenText*

  This Iflow triggers the following Iflows to replicate PO and PR from SAP Ariba to OpenText.
  - Process Direct_Replicate purchase requisitions from SAP Ariba to OpenText
  - Process Direct_Replicate purchase orders from SAP Ariba to OpenText

1. Iflows for replicating purchase requisitions:
   - *ProcessDirect_Create Ariba Purchase Requisition Report*
     Process Direct flows that submits the job in SAP Ariba to get the Purchase Request report via ZIP file

   - *ProcessDirect_Get Ariba Purchase Requisition Report*
     Process Direct flows that picks up the job in SAP Ariba to get the Purchase Request report via ZIP file

   - *Process Direct_Replicate purchase requisitions from SAP Ariba to OpenText*
     This iflow is called by the SAP Cloud Integration Timer iflow and replicates purchase requisitions from SAP Ariba to OpenText.
     It calls the following Iflow to retrieve the data from SAP Ariba:
     - ProcessDirect_Get Ariba Purchase Request Report

2. Iflows for replicating purchase orders:
   - *ProcessDirect_Create Ariba Purchase Order Report*

     Process Direct flows that submits the job in SAP Ariba to get the Purchase Order report via ZIP file

   - *ProcessDirect_Get Ariba Purchase Order Report*

     Process Direct flows that picks up the job in SAP Ariba to get the Purchase Order report via ZIP file

   - *Process Direct_Replicate purchase orders from SAP Ariba to OpenText*

This iflow is called by the SAP Cloud Integration Timer iflow and replicates purchase order from SAP Ariba to OpenText.

It calls the following Iflow to retrieve the data from SAP Ariba:

- ProcessDirect_Get Ariba Purchase Order Report

3. Iflow for replicating sourcing projects:
   - Replicate sourcing projects from SAP Ariba to OpenText

     This iflow requests sourcing projects from SAP Ariba APIs and replicates them to a specific folder in OpenText.

For the PR and PO replication one need to orchestrate the calls for the Job submission and job result call. The job creation itself takes around 15 – 30 minutes depending on the data volume. Hence the approach is the following:

1. Using the Iflow *Timer_Triggers Iflows to submit job request for PR Report and PO Report in SAP Ariba* to start the job creation for PR and PO.
2. After 30 minutes request the results for PR and PO using the Iflow *Timer _Triggers Iflows to replicate PO and PR from SAP Ariba to OpenText*
3. Replicate the data to Opentext using *Process Direct_Replicate purchase requisitions from SAP Ariba to OpenText* and *Process Direct_Replicate purchase orders from SAP Ariba to OpenText*

As for the Sourcing project this package is using the synchronous Ariba API call there is no need to submit a Job request but the data can directly be retrieved and replicated to OpenText.

Note

Retrieved Please review the Ariba API limits stated in the SAP Ariba Developer Portal and consider them while setting up this scenario.

3 Timer_Triggers Iflows to submit job request for PR Report and PO Report in SAP Ariba – Configuration Guide

This Iflow orchestrates the request to the Operational Reporting for Procurement - Job Submission API to receive PR and Pos for a predefined data range. This will create a job ID that can be used in a later point to pick up the respective data as a zip file.

The iflow is hence calling the ProcessDirect iflows:

- ProcessDirect_Create Ariba Purchase Request Report
- ProcessDirect_Create Ariba Purchase Order Report

The request must be processed separately, hence it includes a script which waits 60 seconds.

3.1 Configure Timer

You would need to configure the Timer on a regular basis. It is recommended to set the timer once or twice a day.

3.2 Configure Receiver Adapters

POZipFile_Create:

- Call to Ifow “ProcessDirect_Create Ariba Purchase Order Report”
- Address: “/Ariba/PurchseOrder/ZIPFileCreate”
    - It should be the same as defined in the Sender Adapter of this Iflow.

PRZipFile_Create:

- Call to Ifow “ProcessDirect_Create Ariba Purchase Request Report”
- Address: “/Ariba/PurchseRequest/ZIPFileCreate”
    - It should be the same as defined in the Sender Adapter

This Iflow orchestrates the replication of the travel requests form SAP Concur to OpenText by handling the Authentication to SAP Concur and OpenText, by requesting the data from SAP Concur API and calling the iFlow to replicate the data to OpenText.

It is hence separated into one main integration process “Integration Process”, which is started by the Timer and looping over each travel request batch from the SAP Concur API, and 3 subprocesses:

- Mainprocess:
    - Orchestrates the request to get the authentication information for Concur and OpenText as well as requests the travel requests data from SAP Concur.
    - It then iterates through each travel request and orchestrates the process direct call to the iflow “Process Direct iFlow replicates travel requests from SAP Concur to OpenText” which transfers the data to OpenText.
- Prepare Authentication for Endsystems:
    - Calls the Process Direct Iflow “ProcessDirect_Authenticate to OpenText” to get the authentication information from OpenText
    - Calls the Process Direct Iflow “ProcessDirect_Authenticate to SAP Concur” to get the authentication information from SAP Concur
    - The information are then stored in a header parameter.
- GetConcur Reisendenakte

- Requests the data from the Concur Request API .

4 ProcessDirect_Create Ariba Purchase Requisition Report – Configuration Guide

This Process direct Iflow requests the authentication information from SAP Ariba and defines API template based on the time date from the last successful run and the current date. The last successful run is only set when the Iflow “Process Direct_Replicate purchase requisitions from SAP Ariba to OpenText” was successfully executed and describes the time after the last job id was created.

Please be aware that you would need to configure the SAP Ariba API accordingly.

```
{
    "viewTemplateName":"OpenTextPRView",
    "filters":
    {
        "updatedDateFrom":"${property.LAST_EXEC_TIME}",
        "updatedDateTo":"${property.EXEC_TIME}"
    }
}
```

4.1 Configure Sender Adapter

Address: Define the process direct sender inbound address.

“/Ariba/PurchseRequest/ZIPFileCreate”

4.2 Configure Receiver Adapter

Ariba_API:

- Address: add the SAP Ariba API URL for Operational Reporting for Procurement - Job Submission API, e.g. https://eu.openapi.ariba.com/api/procurement-reporting-job/v2/prod/jobs
- Realm: enter the Ariba Realm that you have defined

Ariba_Token:

- Address: add the SAP Ariba Authentication API, e.g. https://api-eu.ariba.com/v2/oauth/token

4.3 Configure Parameters

In the “More” tab you would need to configure the following parameters:

- apiKey: Configure the API Key of the SAP Ariba API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Authorization: Configure the Authentication Key of the SAP Ariba API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- LAST_EXEC_TIME_DEFAULT: Initial time from which the Iflow should request the data for the first time.

4.4 Configure Ariba

Please be aware that you might consult an SAP Ariba integration expert in order to make the APIs available, especially regarding the custom fields and templates.

5 ProcessDirect_Create Ariba Purchase Order Report– Configuration Guide

This Process direct Iflow requests the authentication information from SAP Ariba and defines API template based on the time date from the last successful run and the current date. The last successful run is only set when the Iflow “Process Direct_Replicate purchase orders from SAP Ariba to OpenText” was successfully executed and describes the time after the last job id was created.

Please be aware that you would need to configure the SAP Ariba API accordingly.

```
{
    "viewTemplateName":" OpenTextProcurementPOView",
    "filters":
    {
        "updatedDateFrom":"${property.LAST_EXEC_TIME}",
        "updatedDateTo":"${property.EXEC_TIME}"
    }
}
```

5.1 Configure Sender Adapter

Address: Define the process direct sender inbound address.

“/Ariba/PurchseOrder/ZIPFileCreate”

5.2 Configure Receiver Adapter

Ariba_API:

- Address: add the SAP Ariba API URL for Operational Reporting for Procurement - Job Submission API, e.g. https://eu.openapi.ariba.com/api/procurement-reporting-job/v2/prod/jobs
- Realm: enter the Ariba Realm that you have defined

Ariba_Token:

- Address: add the SAP Ariba Authentication API, e.g. https://api-eu.ariba.com/v2/oauth/token

5.3 Configure Parameters

In the “More” tab you would need to configure the following parameters:

- apiKey: Configure the API Key of the SAP Ariba API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Authorization: Configure the Authentication Key of the SAP Ariba API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- LAST_EXEC_TIME_DEFAULT: Initial time from which the Iflow should request the data for the first time.

5.4 Configure Ariba

Please be aware that you might consult an SAP Ariba integration expert in order to make the APIs available, especially regarding the custom fields and templates.

6 Timer _Triggers Iflows to replicate PO and PR from SAP Ariba to OpenText– Configuration Guide

This Iflow orchestrates the request to the Operational Reporting for Procurement - Job Results API to receive PR and POs for a predefined data range. It picks up the job ID that is created earlier in the Job submission call. The data is picked up via ZIP file.

The Iflow is hence calling the ProcessDirect iflows:

- Process Direct_Replicate purchase orders from SAP Ariba to OpenText
- Process Direct_Replicate purchase requisitions from SAP Ariba to OpenText

The request must be processed separately, hence it includes a script which waits 60 seconds.

6.1 Configure Timer

You would need to configure the Timer on a regular basis. It is recommended to set the timer once or twice a day.

6.2 Configure Receiver Adapters

POZipFile_Export:

- Call to Ifow “ProcessDirect_Create Ariba Purchase Order Report”
- Address: “/Ariba/PurchseOrder/Replicate”
    - It should be the same as defined in the Sender Adapter of this Iflow.

PRZipFile_Export:

- Call to Ifow “ProcessDirect_Create Ariba Purchase Request Report”
- Address: “/Ariba/PurchseRequest/ZIPFileCreate”
    - It should be the same as defined in the Sender Adapter

7 ProcessDirect_Get Ariba Purchase Requisition Report – Configuration Guide

This Process direct Iflow requests the data from the Operational Reporting for Procurement - Job Results API based on Job ID created earlier in the ProcessDirect Iflow in Chapter 3. The data is downloaded as a ZIP File and hence converted into an XML format.

Please be aware that you would need to configure the SAP Ariba API accordingly.

7.1 Configure Sender Adapter

Address: Define the process direct sender inbound address.

"/Ariba/PurchseRequest/ZIPFileGet"

7.2 Configure Receiver Adapter

Ariba_GetZipFileName:

Based on the JobID the ZipFile Name is retrieved.

- Address: Add the SAP Ariba API URL for Operational Reporting for Procurement - Job Results API, e.g. https://eu.openapi.ariba.com/api/procurement-reporting-jobresult/v2/prod/jobs
- Realm: enter the Ariba Realm that you have defined

Ariba_GetZipFile:

Based on the JobID and the ZipFile Name the data is retrieved.

- Address: Add the SAP Ariba API URL for Operational Reporting for Procurement - Job Results API, e.g. https://eu.openapi.ariba.com/api/procurement-reporting-jobresult/v2/prod/jobs
- Realm: enter the Ariba Realm that you have defined

Ariba_Authentication:

- Address: add the SAP Ariba Authentication API, e.g. https://api-eu.ariba.com/v2/oauth/token

7.3 Configure Parameters

In the "More" tab you would need to configure the following parameters:

- apiKey: Configure the API Key of the SAP Ariba API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Authorization: Configure the Authentication Key of the SAP Ariba API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.

7.4 Configure Ariba

Please be aware that you might consult an SAP Ariba integration expert in order to make the APIs available, especially regarding the custom fields and templates.

8 ProcessDirect_Get Ariba Purchase Order Report – Configuration Guide

This Process direct Iflow requests the data from the Operational Reporting for Procurement - Job Results API based on Job ID created earlier in the ProcessDirect Iflow in Chapter 4. The data is downloaded as a ZIP File and hence converted into an XML format.

Please be aware that you would need to configure the SAP Ariba API accordingly.

8.1 Configure Sender Adapter

Address: Define the process direct sender inbound address.

"/Ariba/PurchseRequest/ZIPFileGet"

8.2 Configure Receiver Adapter

Ariba_GetZipFileName:

Based on the JobID the ZipFile Name is retrieved.

- Address: Add the SAP Ariba API URL for Operational Reporting for Procurement - Job Results API, e.g. https://eu.openapi.ariba.com/api/procurement-reporting-jobresult/v2/prod/jobs
- Realm: enter the Ariba Realm that you have defined

Ariba_GetZipFile:

Based on the JobID and the ZipFile Name the data is retrieved.

- Address: Add the SAP Ariba API URL for Operational Reporting for Procurement - Job Results API, e.g. https://eu.openapi.ariba.com/api/procurement-reporting-jobresult/v2/prod/jobs
- Realm: enter the Ariba Realm that you have defined

Ariba_Authentication:

- Address: add the SAP Ariba Authentication API, e.g. https://api-eu.ariba.com/v2/oauth/token

8.3 Configure Parameters

In the "More" tab you would need to configure the following parameters:

- apiKey: Configure the API Key of the SAP Ariba API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Authorization: Configure the Authentication Key of the SAP Ariba API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.

8.4 Configure Ariba

Please be aware that you might consult an SAP Ariba integration expert in order to make the APIs available, especially regarding the custom fields and templates.

9 Process Direct_Replicate purchase requisitions from SAP Ariba to OpenText

This Iflow retrieves the ZipFile from Ariba created earlier and transfers the PRs each by each into a predefined Folder in OpenText.

The Iflow is separated into one main integration process “Integration Process”, which is started by the Iflow in chapter 6, and 7 subprocesses:

- Integration Process: This process orchestrates the retrieval of the Ariba data and iterating through each record. It is calling the PR Ariba API to request detailed data on the PR. It also orchestrates the transfer of the data into a predefined folder to OpenText.
- Ariba Get ZipFile: This subprocess is calling the ProcessDirect Iflow in chapter 7.
- Ariba Call: This subprocess requests further PR information based on the PR ID and the External Approval API for Sourcing and Supplier Management where the entity_type is “requisitions” and the “entity_id” the value of the current PR ID.
- OpenText Authentication_Process: Authenticates to the OpenText APIs
- OpenText Get NodeID by NickName: Gets the folder Id from OpenText based on the name of the folder.
- OpenText Get NodeID by Name: It checks whether the Document already exists in OpenText.
- OpenText Check Post or Update Document: The process creates the payload and checks whether the document already exist in the folder in OpenText. Depending on the response it is creating or updating the document.
- OpenText Add and Upload New Version: Updates the existing document in OpenText.

9.1 Configure Sender Adapter

Address: Define the process direct sender inbound address.

“/Ariba/PurchseRequisition/Replicate”

9.2 Configure Receiver Adapter

OT_Authentication:

- Address: Define the Address (host and port) from OpenText for the Authentication Web Service /cws/services/Authentication.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_UpdateDocument

- Address: Define the Address (host and port) from OpenText for the Web Service UpdateDocument /cws/services/ContentService
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_GetNodeByNickname:

- Address: Define the Address (host and port) from OpenText for the Web Service GetNodeByNickname /cws/services/DocumentManagement
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_GetNodeByName:

- Address: Define the Address (host and port) from OpenText for the Web Service GetNodeByName /cws/services/DocumentManagement
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_PostDocument

- Address: Define the Address (host and port) from OpenText for the Web Service CreateDocument /cws/services/DocumentManagement
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

Ariba_Internal:

- Address: Address of the Process Direct Flow from chapter 7.

Ariba_Authentication

- Address: add the SAP Ariba Authentication API, e.g. https://api-eu.ariba.com/v2/oauth/token
- Query: configure the query, e.g. “grant_type=openapi_2lo”

OT_AddVersion

- Address: Define the Address (host and port) from OpenText for the Web Service AddVersion /cws/services/DocumentManagement
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

9.3 Configure Parameters

- Ariba_APIkey_PR: Configure the API Key of the SAP Ariba PR API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Ariba_Authorization_PR: Configure the Authentication Key of the SAP Ariba PR API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Ariba_custQuery_PR: Enter the realm
- Ariba_URL_PR: Enter the SAP Ariba URL for the External Approval API for Sourcing and Supplier Management where the entity_type is “requisitions” and the “entity_id” the value of the current PR ID.
- LAST_SUCCESS_DATE_DEFAULT: Set a date for the initial run, e.g. 2020-10-01 01:30:01
- OT_Credential: Enter the OpenText Credentials defined in the Security Material
- OpenText Folder Name: Enter the OpenText folder, in which the documents should be transferred, e.g. CPI_ARIBA_PR_IN

9.4 Configure Ariba

Please be aware that you might consult an SAP Ariba integration expert in order to make the APIs available, especially regarding the custom fields and templates.

9.5 Configure Cloud Connector

If the OpenText system is an On-Premise System you would need to configure the Cloud Connector accordingly. OpenText would be maintained as Third Party.

Please refer to SAP BTP Connectivity.

9.6 Configure OpenText

Please be aware that you might consult an OpenText integration expert in order to make the APIs available.

10 Process Direct_Replicate purchase orders from SAP Ariba to OpenText

This Iflow retrieves the ZipFile from Ariba created earlier and transfers the POs each by each into a predefined Folder in OpenText.

The Iflow is separated into one main integration process “Integration Process”, which is started by the Iflow in chapter 6, and 7 subprocesses:

- Integration Process: This process orchestrates the retrieval of the Ariba data and iterating through each record. It is checking if a CW Is attached to the PO and in that case getting the CW information based on the CW ID that is stored in the custom field “//cus_ContractWorkspaceID”. It then orchestrates the transfer of the data into a predefined folder to OpenText.
- Ariba Get ZipFile: This subprocess is calling the ProcessDirect Iflow in chapter 7.
- Ariba Call: In cases that a CW is attached to the PO further CW information are requested based on the CW ID and the External Approval API for Sourcing and Supplier Management where the entity_type is “ContractWorkspace” and the “entity_id” the value of the related CW ID of the current PO. This is stored in a custom field named //cus_FGContractReference. Please be aware that this needs to be configured accordingly in Ariba to make use of this.
- OpenText Authentication_Process: Authenticates to the OpenText APIs
- OpenText Get NodeID by NickName: Gets the folder Id from OpenText based on the name of the folder.
- OpenText Get NodeID by Name: It checks whether the Document already exists in OpenText.
- OpenText Check Post or Update Document: The process creates the payload and checks whether the document already exist in the folder in OpenText. Depending on the response it is creating or updating the document.
- OpenText Add and Upload New Version: Updates the existing document in OpenText.

10.1 Configure Sender Adapter

Address: Define the process direct sender inbound address.

“/Ariba/PurchseOrder/Replicate”

10.2 Configure Receiver Adapter

OT_Authentication:

- Address: Define the Address (host and port) from OpenText for the Authentication Web Service /cws/services/Authentication.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_UpdateDocument

- Address: Define the Address (host and port) from OpenText for the Web Service UpdateDocument /cws/services/ContentService
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_GetNodeByNickname:

- Address: Define the Address (host and port) from OpenText for the Web Service GetNodeByNickname /cws/services/DocumentManagement
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_GetNodeByName:

- Address: Define the Address (host and port) from OpenText for the Web Service GetNodeByName /cws/services/DocumentManagement
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_PostDocument

- Address: Define the Address (host and port) from OpenText for the Web Service CreateDocument /cws/services/DocumentManagement

- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

Ariba_Internal:

- Address: Address of the Process Direct Flow from chapter 8.

Ariba_Authentication

- Address: add the SAP Ariba Authentication API, e.g. https://api-eu.ariba.com/v2/oauth/token
- Query: configure the query, e.g. “grant_type=openapi_2lo”

OT_AddVersion

- Address: Define the Address (host and port) from OpenText for the Web Service AddVersion /cws/services/DocumentManagement
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

10.3 Configure Parameters

- Ariba_APIkey_CW: Configure the API Key of the SAP Ariba CW API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Ariba_Authorization_CW: Configure the Authentication Key of the SAP Ariba CW API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Ariba_custQuery_CW: enter the Realm
- Ariba_URL_CW: Enter the URL of the SAP Ariba API External Approval API for Sourcing and Supplier Management where the entity_type is “ContractWorksapce” and the “entity_id” the value of the related CW ID of the current PR.
- LAST_SUCCESS_DATE_DEFAULT: Set a date for the initial run, e.g. 2020-10-01 01:30:01
- OT_Credential: Enter the OpenText Credentials defined in the Security Material
- OpenText Folder Name: Enter the OpenText folder, in which the documents should be transferred, e.g. CPI_ARIBA_PO_IN

10.4 Configure Ariba

Please be aware that you might consult an SAP Ariba integration expert in order to make the APIs available. Especially regarding the custom fields.

10.5 Configure Cloud Connector

If the OpenText system is an On-Premise System you would need to configure the Cloud Connector accordingly. OpenText would be maintained as Third Party.

Please refer to SAP BTP Connectivity.

10.6 Configure OpenText

Please be aware that you might consult an OpenText integration expert in order to make the APIs available.

11 Replicate sourcing projects from SAP Ariba to OpenText

This Iflow replicates sourcing projects from SAP Ariba to OpenText. It includes an iterating process in order to iterate through the pages of the API response. In OpenText for each sourcing project a specific workspace is created in OpenText. In this workspace there is an auto generated folder where all the data and information are transferred.

This workspace is either created or updated. It also includes updates to the already replicated sourcing projects.

For picking up the sourcing projects related to a specific time range (filters={"updatedDateFrom":"${property.LAST_EXEC_TIME}","updatedDateTo":"${property.EXEC_TIME}"}&pageToken=${property.PageToken}), from SAP Ariba the Operational Reporting for Sourcing - Synchronous API is used. For picking up all the sourcing project the custom template (viewTemplateName) “OpenTextSourcingProjectView” is used and needs to be defined in Ariba (https://eu.openapi.ariba.com/api/sourcing-reporting-details/v1/prod/views/OpenTextSourcingProjectView). In that template you can also include custom fields.

The sourcing projects are replicated one by one, where also additional information are picked up from SAP Ariba via External Approval API for Sourcing and Supplier Management (e.g. https://eu.openapi.ariba.com/api/sourcing-approval/v1/prod/Document/${property.SourcingID}).

The payload is then prepared and replicated to a workspace in OpenText.

The main Integration Process is calling the subprocess “Mainprocess”.

This subprocess is checking for relevant data and gathering further information from SAP Ariba APIs and orchestrating the replication to the workspace in OpenText.

The subprocess are the following:

- Get Ariba SP: It is called to
  1. Request all relevant sourcing projects from SAP Ariba API Operational Reporting for Sourcing - Synchronous API using the following filer:
  “filters={"updatedDateFrom":"${property.LAST_EXEC_TIME}","updatedDateTo":"${property.EXEC_TIME}"}&pageToken=${property.PageToken}”
  2. And Request additional information from SAP Ariba via External Approval API for Sourcing and Supplier Management.
- OpenText Subprocess: orchestrates the identification or creation of the workspace in OpenText as well as posting it to OpenText. If the document already exists, it will be updated with a newer version.
- OpenText Authentication Process: Based on the Credentials configured in the Security Material the Authentication Key from OpenText is requested and stored in a Header parameter.
- OpenText Get Workspace Node ID: identifies or creates a workspace in OpenText based on the following properties (please note that this should be discussed with an OpenText expert and is customizable):
  - ID: sourcing project ID from SAP Ariba, from //Records/InternalId
  - STARTDATE: current date
  - COMMODITY: commodity used in the sourcing project, form //commodities/name
  - TITEL: name of the sourcing project, from //root/name
  - STATUS: status of the sourcing project, from //root/projectState
  - SOURCINGREQUEST: ID of the sourcing project, from //Records/ParentDocument/InternalId
  - LASTCHANGE: time the sourcing project was last updated, from //Records/TimeUpdated
  - CWID: if a contract workspace exist, the ID of this contract workspace is used, from //root/documents/children[type eq 'Contract Workspace (Procurement)']/id
  - VERSION: the current document version of the sourcing project, from //Records/DocumentVersion
- OpenText Get NodeID by NickName: returns the ID of the folder in the Workspace in OpenText. The folder name can be customized.
- OpenText Get NodeID by Name: returns an ID if the document exits in the folder in OpenText.
- OpenText Check Post or Update Document: Checks whether the document already exists and forwards the request to either post or update the document in OpenText.
- OpenText Post Document: Posts the payload to the specific folder in OpenText.
- OpenText Add and Upload New Version: Updates the document with a newer version in OpenText
- OpenText Update/Post Document Extension: Concatenates and generates the final XML file that is replicated to OpenText, it is also base64 encrypted.
- Errorhandling processes:
  - HttpExceptionHandling: Logs the message as attachement

- setErrorFlag: sets the error flag to “true” so that the global variable “LAST_EXEC_TIME_OT_ARIBA_GV_SPReport” for the data range is not updated.

11.1 Configure Timer

You would need to configure the Timer on a regular basis. It is recommended to set the timer once or twice a day. Please also consider the SAP ARIBA API limits.

11.2 Configure Receiver Adapter

OT_AddVersion

- OT_CWS_HOST: Enter the Host and port of the OpenText system that is used for the Web Service /cws/services/DocumentManagement.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_UpdateContent

- OT_CWS_HOST: Enter the Host and port of the OpenText system that is used for the Web Service /cws/services/ContentService.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_GetNodebyName

- OT_CWS_HOST: Enter the Host and port of the OpenText system that is used for the Web Service /cws/services/DocumentManagement.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_UpdateContent

- OT_CWS_HOST: Enter the Host and port of the OpenText system that is used for the Web Service /cws/services/ContentService.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_UpdateNode_01

- OT_CWS_HOST: Enter the Host and port of the OpenText system that is used for the Web Service /cws/services/DocumentManagement.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_CreateDocumentContext

- OT_CWS_HOST: Enter the Host and port of the OpenText system that is used for the Web Service /cws/services/DocumentManagement.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

Ariba_Authentication

- Address: add the SAP Ariba Authentication API, e.g. https://api-eu.ariba.com/v2/oauth/token
- Query: configure the query, e.g. “grant_type=openapi_2lo”

OT_Authentication:

- Address: Define the Address (host and port) from OpenText for the Authentication Web Service /cws/services/Authentication.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_GetNodebyNickName

- OT_CWS_HOST: Enter the Host and port of the OpenText system that is used for the Web Service /cws/services/DocumentManagement.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

OT_UpdateNode_02

- OT_CWS_HOST: Enter the Host and port of the OpenText system that is used for the Web Service /cws/services/DocumentManagement.
- Proxy Type: Define the Proxy Type, if it is On-Premise you would also need to configure the Cloud Connector as well setting the Location ID in the Iflow.

11.3 Configure Parameters

In the “More” tab you would need to configure the following parameters:

- Ariba_APIkey_SingleSP: Configure the API Key of the SAP Ariba External Approval API for Sourcing and Supplier Management. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Ariba_APIkey_SP: Configure the API Key of the SAP Ariba Operational Reporting for Sourcing - Synchronous API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Ariba_Authorization_SingleSP: Configure the Authentication of the SAP Ariba External Approval API for Sourcing and Supplier Management. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Ariba_Authorization_SP: Configure the Authentication Key of the SAP Ariba the Operational Reporting for Sourcing - Synchronous API. It is defined in the SAP Ariba Developer Portal, where you have also enabled the API.
- Ariba_custQuery_eachSP: Enter the realm
- Ariba_custQuery_SP: Enter the realm. It also includes the filter that needs to be provided so that the specific date range can be applied “&filters={"updatedDateFrom":"${property.LAST_EXEC_TIME}","updatedDateTo":"${property.EXEC_TIME}"}&pageToken=${property.PageToken}”
- Ariba_Host_External Approval API for Sourcing and Supplier Management: Enter the SAP Ariba URL for the External Approval API for Sourcing and Supplier Management where the entity_type is “Document” and the “entity_id” the value of the current sourcing project ID.
- Ariba_Host_Operational Reporting for Sourcing - Synchronous API: Enter the SAP Ariba URL for the Operational Reporting for Sourcing - Synchronous API, where the viewTemplateName is “OpenTextSourcingProjectView”
- LAST_EXEC_TIME_DEFAULT: Initial time from which the Iflow should request the data for the first time.
- OpenText_FolderName: Enter the OpenText folder, in which the documents should be transferred. This Folder should be created in the Workspace created earlier.
- OpenText_Credentials: The name of the security artefact defined in the Security Material for the OpenText credentials.
- OT_ExternalSystemId: Defines the external system ID defined in the workspace in OpenText.
- OpenText_NodeName: It defines the displayed name for the payload in the OpenText folder.
- OT_ObjectType: Defines the object type defined in the workspace in OpenText, e.g. sourcingproject.

11.4 Configure Ariba

Please be aware that you might consult an SAP Ariba integration expert in order to make the APIs available, especially regarding the custom fields and templates.

11.5 Configure Cloud Connector

If the OpenText system is an On-Premise System you would need to configure the Cloud Connector accordingly. OpenText would be maintained as Third Party.

Please refer to SAP BTP Connectivity.

11.6 Configure OpenText

Please be aware that you might consult an OpenText integration expert in order to make the APIs available.