



INTERNAL

Connecting with SAP ARIBA OpenAPIs via SAP Cloud Platform Integration

How to handle access token and fetch a from SAP ARIBA OpenAPIs

THE BEST RUN



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THE BEST RUN



1 CONNECTING WITH SAP ARIBA OPENAPIS VIA SAP CLOUD PLATFORM INTEGRATION

SAP Ariba offers a bunch of Open APIs, which can be found among others in the [SAP API Business Hub](#). SAP Ariba Open APIs allow you to quickly extend, integrate, and optimize SAP Ariba applications and Ariba Network to meet unique domain- or region-specific business requirements.

By providing an open, secure, and scalable way to build new or extended functionality, they deliver a significantly higher level of data sharing and functionality for specific custom integrations with SAP Ariba solutions.

This document describes the configuration steps for the integration of SAP ARIBA Open APIs via SAP Cloud Platform.

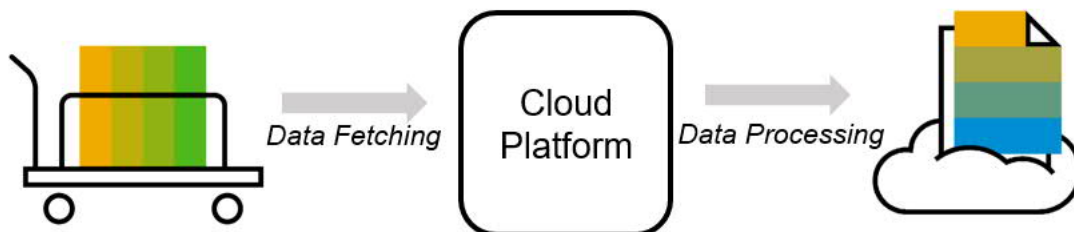
About SAP ARIBA Open APIs

Besides the SAP API Business Hub, where you can already find a lot of integration flows to connect to ARIBA Open APIs, you can find more information about the Open APIs of ARIBA following this [link](#). SAP Ariba APIs provide an open, secure and scalable way to build new functionality for SAP Ariba solutions and Ariba Network, gain access to SAP and third party cloud-based data, and create valuable new end-user solutions utilizing the SAP Ariba platform technology. The developer portal includes a list and full description of available APIs, how-to guides, a sandbox environment for design-time activities, on-line support and gateway to ensure run-time data flow.

SAP Ariba APIs help customers and partners transcend organizational boundaries to extend existing business processes, build new solutions catering to specific region or industry or simply drive analytics by sourcing business data. Removal of traditional software boundaries open-up new possibilities, internally as well externally.

Basic Processes

The following figure shows an overview of the process between SAP ARIBA and Cloud Platform:



This integration flow handles the token and the request to SAP ARIBA in order to fetch data. In common processes this data is processed on SAP CPI, and finally send to another system (SAP System in the Cloud or On-Premise or Non-SAP System). Note that this Iflow only shows a way to request data from SAP ARIBA.

2 INTEGRATION PROCEDURE

This chapter shortly describes the steps to connect SAP ARIBA Open APIs with the SAP Cloud Platform.

It includes the following parts:

- Configuration in SAP Cloud Platform Integration

2.1 Cloud Platform Integration - How to Call this Iflow

In order to work with the Ariba Open API Package you first need to create a custom Iflow, with which you can call this Standard-Iflow and continue to work with the received data. The steps are described in the following:

Step 1: Create Custom Iflow

Step 2: In your custom Iflow enter a request-reply as well as a receiver to your flow

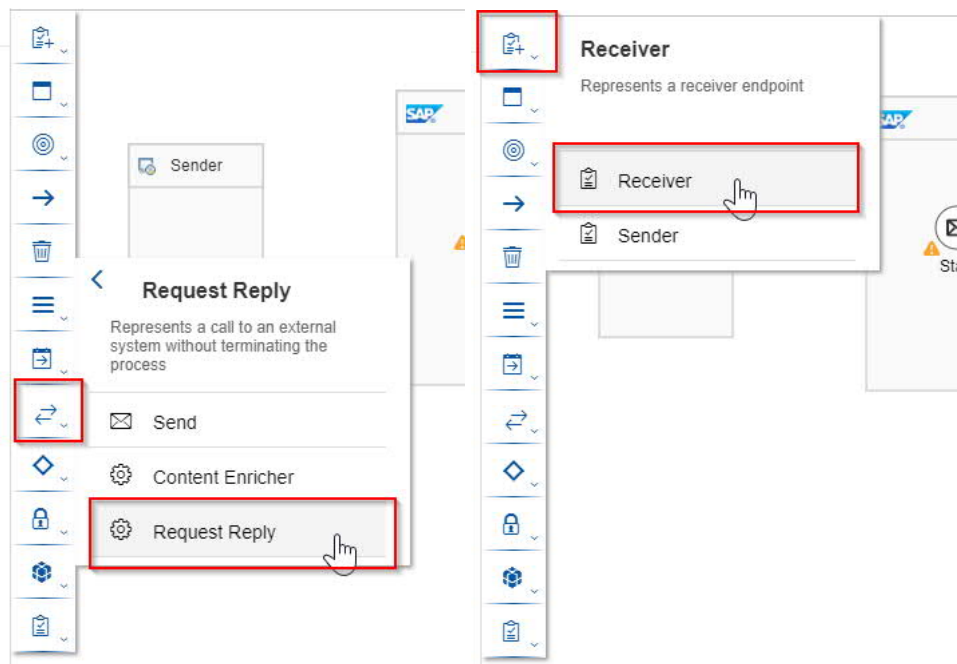


Figure 1a and 1b: Add Request Reply and Receiver to you flow

Step 3: Now connect the request-reply with the Receiver and choose ProcessDirect as Adapter Type

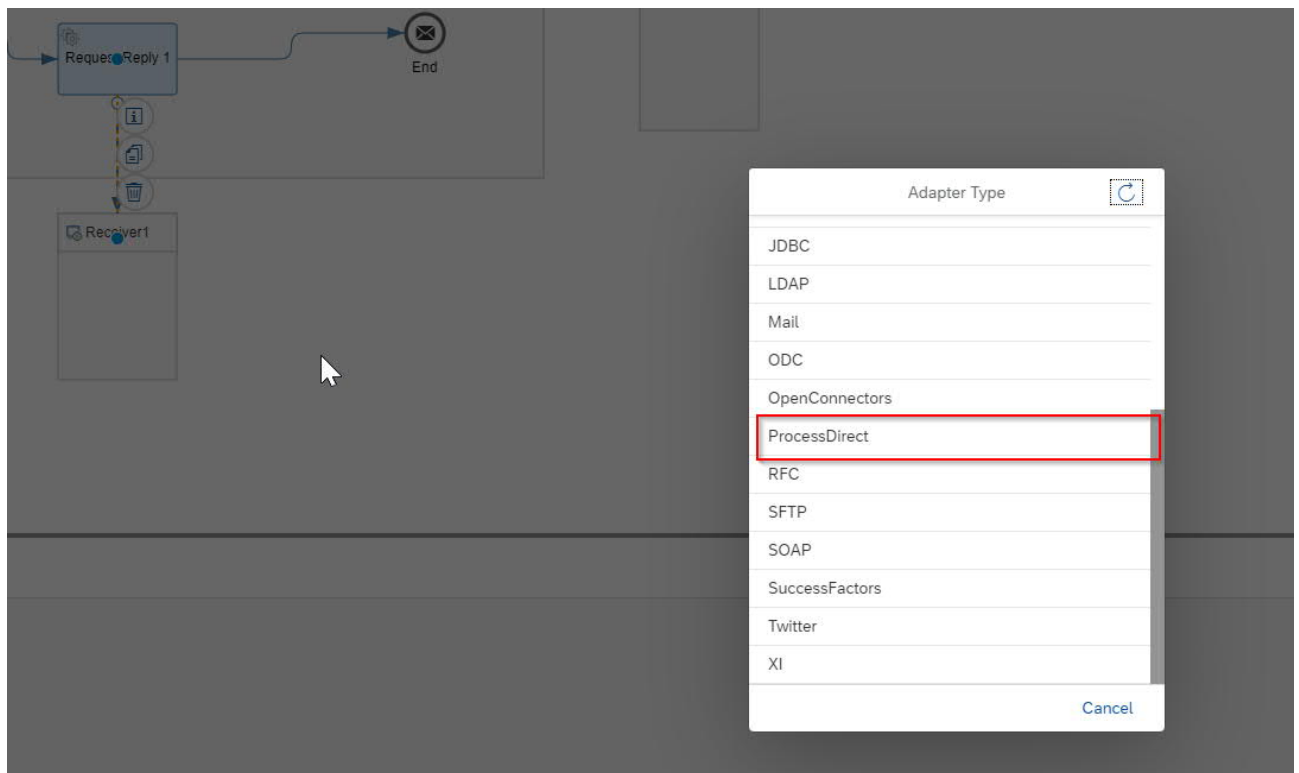


Figure 2: Choose *ProcessDirect* as Adapter Type

Step 4: In the Connection Tab of the Process Direct Adapter enter the following Address `/Ariba/OpenAPI` as shown in this figure:

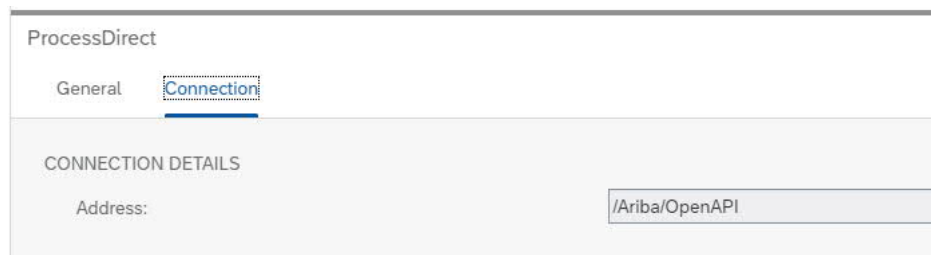


Figure 3: *ProcessDirect* Adapter

With this address you call the internal Iflow to request the data from the Ariba Open API.

As a result, you will receive an XML file as a response from this separate Iflow call with which you can continue to work.

In the section 2.2. the steps on how to configure the Iflow to connect to Ariba Open API are described.

2.2 Configuration of the Iflow in SAP Cloud Platform Integration

Step-by-step Instructions

Step 1: Download the .zip-file. It comprises the package for the Iflow.

Step 2: Import the package to your CPI tenant and open the Iflow Connect to Ariba Open API under the Artifacts tab.

Step 3: Click Configure on the right upper corner:
A screen with a *Receiver* and a *More* tab will appear as shown in Figure 2.

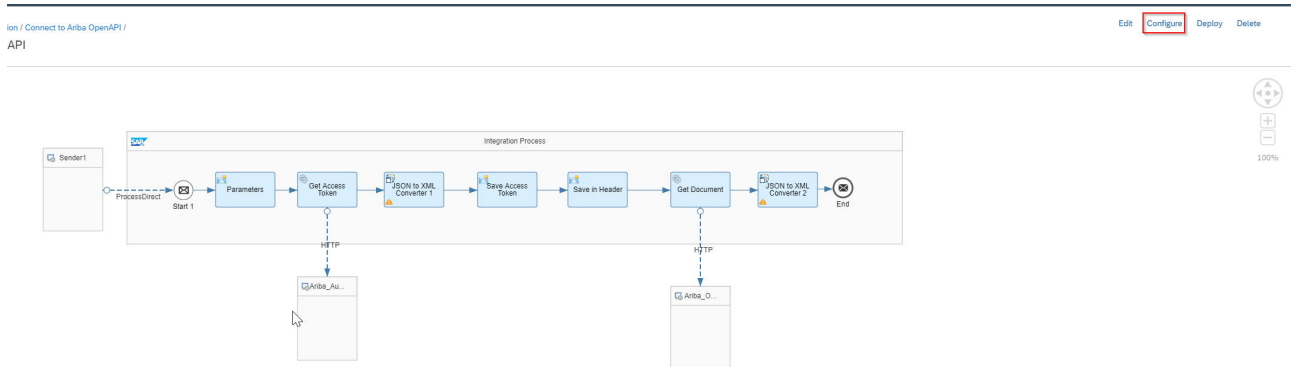


Figure 4: Overview - Iflow

Step 4: Enter the relevant information in the tab Receiver:

Address: Enter the URL of the Ariba API

Configure "OpenAPIAriba"

Receiver More

Connection

Receiver: Ariba_Open_API

Adapter Type: HTTP

Address: https://<API_URL>

Figure 5: Configure Open API Ariba

If you change the Receiver to Ariba_Authentication, you will see the URL for requesting the Bearer access token. Please check if this URL in the Address field and the grant_type in the Query field is the correct. Otherwise correct it.

Configure "OpenAPIAriba"

Receiver More

Connection

Receiver: Ariba_Authentication

Adapter Type: HTTP

Address: https://api-eu.ariba.com/v2/oauth/token

Query: grant_type=openapi_2lo

Figure 6: Receiver Ariba_Authentication

Step 5: Click on the tab *More* and enter the following information:

apiKey: Enter the Api Key of the SAP Ariba Open API. This one is needed to request the correct Ariba API. Request the Ariba expert for this information.

Authorization

Enter the Authorization Key of the SAP Ariba Open API. This one is needed to get the correct access token. Request the Ariba expert for this information.

Realm

Enter the respective realm of you Ariba tenant.

Configure "OpenAPIAriba"

Receiver **More**

Type: All Parameters

apiKey: <API_Key>

Authorization: Basic <Authorization_Key>

Realm: realm=<Realm>

Figure 7: More – Configure all Parameters

Click on *Save & Close*.

Step 6: Enter Filter, if needed.

Click *Edit* on the right upper corner.

Click on the Content Modifier, called Parameters and go to the tab *Exchange Property*.

Integration Process

Start Timer 1 → Parameters → Get Access Token → JSON to XML Converter 1 → Save Access Token → Save in Header → Get Document → JSON to XML Converter 2 → End

Parameters → HTTP → Ariba_Au... → HTTP → Ariba_O...

Content Modifier

General Message Header **Exchange Property** Message Body

Properties:

Action	Name	Type	Data Type	Value
Create	Filter	Constant		
Create	realm	Constant		realm=<Realm>

Figure 8: Configure Content Modifier for filter

In the *Exchange Property* tab you can see the Filter. Please enter you filter criteria in the field *Value* as shown in the example.

Example:

`&filters={"createDateFrom":"2020-01-01T00:00:00Z","createDateTo":"2020-01-30T00:00:00Z"}`.

Step 7: Click *Save & Deploy*.

2.3 Externalized Parameters

This part will give you an explanation of the externalized parameters:

Receiver	Ariba_Open_API
Adapter Type	You can choose the adapter type to connect to the SAP ARIBA Open API URL. Normally it works with HTTP
Address	Enter the URL of the SAP ARIBA API, which you can find either on the ARIBA API developer portal or by asking your Ariba expert.
Receiver	Ariba_Authentication
Adapter Type	You can choose the adapter type to connect to the SAP ARIBA Open API Authentication URL. Normally it works with HTTP
Address	Enter the URL to authenticate to the SAP ARIBA API, which you can find either on the ARIBA API developer portal or by asking your Ariba expert. Please make sure that this is the correct URL. Default value: https://api-eu.ariba.com/v2/oauth/token It differs from the address above as it is only used to get the access token for the authentication to the API URL.
Query	Default value: <code>grant_type=openapi_2lo</code>
More	All Parameters
apiKey	Enter the Api Key of the SAP Ariba Open API. This one is needed to request the correct Ariba API. Request the Ariba expert for this information.
Authorization	Enter the Authorization Key of the SAP Ariba Open API. This one is needed to get the correct access token. Request the Ariba expert for this information.
Realm	Enter the respective realm of your Ariba tenant.

Additional configuration can be made with the variable *Filter* in the Content Modifier *Parameters*. You can set some API specific filter here.