

SAP CLOUD PLATFORM | EXTERNAL

# Setup Guide Maintain Purchase Info Record

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# Overview

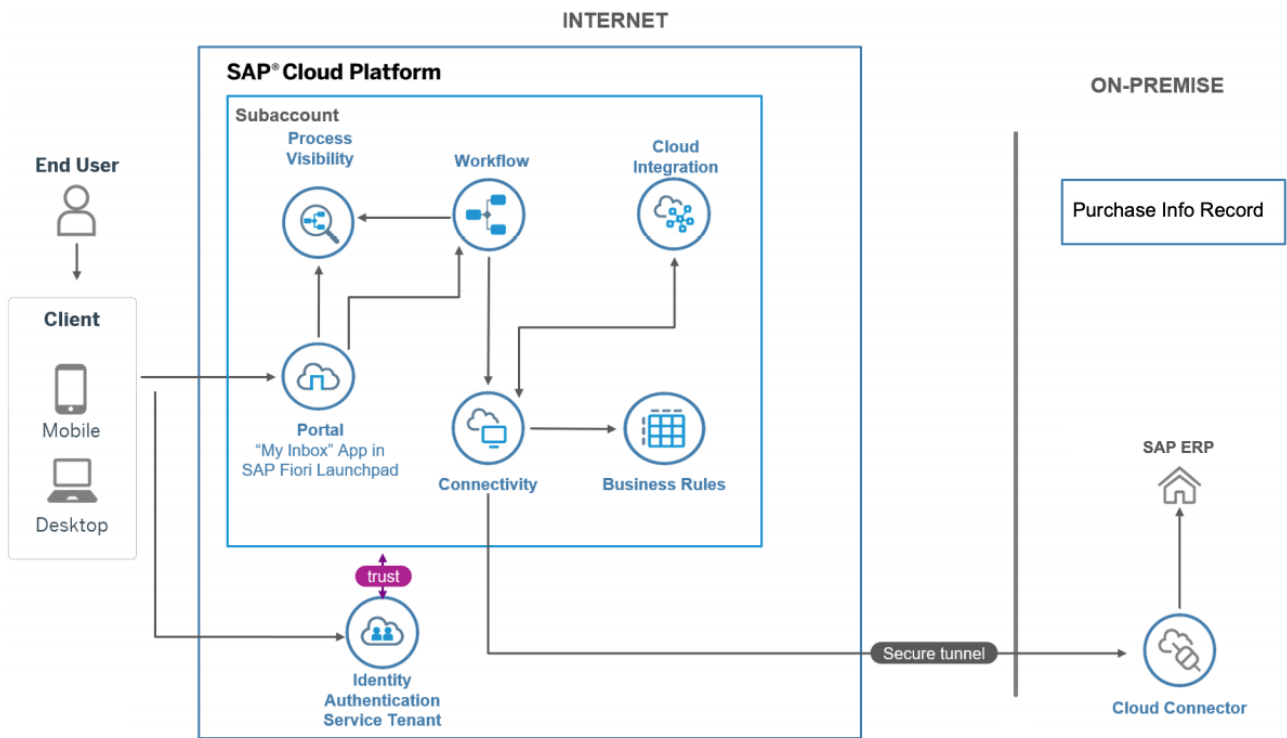
This document provides information about setting up the SAP Cloud Platform account to consume the live process package **Maintain Purchase Info Record**. The main audience of this document is technical IT/system administrators.

The Maintain Purchase Info Record content package enables SAP ERP customers to automate the create and change of Purchase Info Record using SAP Cloud Platform Workflow Management without additional development in SAP ERP. Salient features of this content package are:

- Plug and Play with SAP ERP without additional development.
- Pre-configured process steps to create net new variants.
- New Process variants can be configured in a low-code, no-code approach.
- Add additional approvers before the purchase info record is update in SAP ERP.
- Agent/approver determination using Business Rules.
- Flexibility in determining process variants based on business conditions.
- Master data validations and additional business validation of purchase info record using business rules.
- Pre-built integration content to call SAP ERP RFC from SAP Cloud Platform Workflow Management.

Out-of-the-box visibility into key process performance indicators.

## SAP ERP - Maintain Purchase Info Record



# Required SAP Cloud Platform Services

The live process package Maintain Purchase Info Record is intended to be used for SAP ERP 6.0 and requires the following services in SAP Cloud Platform.

- SAP Cloud Platform Workflow Management to orchestrate the process.
- SAP Cloud Platform Integration (in SAP Cloud Platform Neo environment) to consume the RFC and BAPI in SAP ERP.
- SAP Cloud Connector to establish access to on-premise resources.
- SAP Cloud Platform Portal to access the apps that are involved in the process.
- SAP Cloud Platform Identity Authentication Service (optional).
- SAP Web IDE or SAP Business Application Studio to modify/deploy the SAPUI5 applications.

# Setup and Configuration

## Configure SAP Cloud Platform Workflow Management

Maintain Purchase Info Record live process content package requires SAP Cloud Platform Workflow Management subscription or a CPEA contract. Follow the setup and configuration section of SAP Cloud Platform Workflow Management.

<https://help.sap.com/viewer/6f55baaf330443bd8132d071581bbae6/Cloud/en-US/d7910e2bf7f64afc9d0eb21b0cc9e84d.html>

## Configure Workflow Email Destination

Configure workflow email destination to automatically send email notification to the involved parties. For more information on configuring the destination, see [configure workflow email destination](#).

## Configure Business Rules Destination

A HTTP destination is required in the Cloud Foundry account where SAP Workflow Management is subscribed. Configure destination with name "BusinessRules", Type as HTTP, Proxy Type as Internet and authentication as OAuth2ClientCredentials. Please make sure the URL formatted as {rule\_runtime\_url}/rules-service. Please refer how to [create a HTTP destination](#) and [how to access business rules APIs](#) using OAuth 2.0 Authentication (client credentials)

### Destination Configuration

Name: *	BusinessRules
Type:	HTTP
Description:	
URL: *	
Proxy Type:	Internet
Authentication:	OAuth2ClientCredentials
Client ID: *	
Client Secret: *	*****
Token Service URL: *	
Token Service User:	
Token Service Password:	

## Configure Integration Destination

A HTTP destination is required in the Cloud Foundry account where SAP Cloud Platform Workflow Management is subscribed.

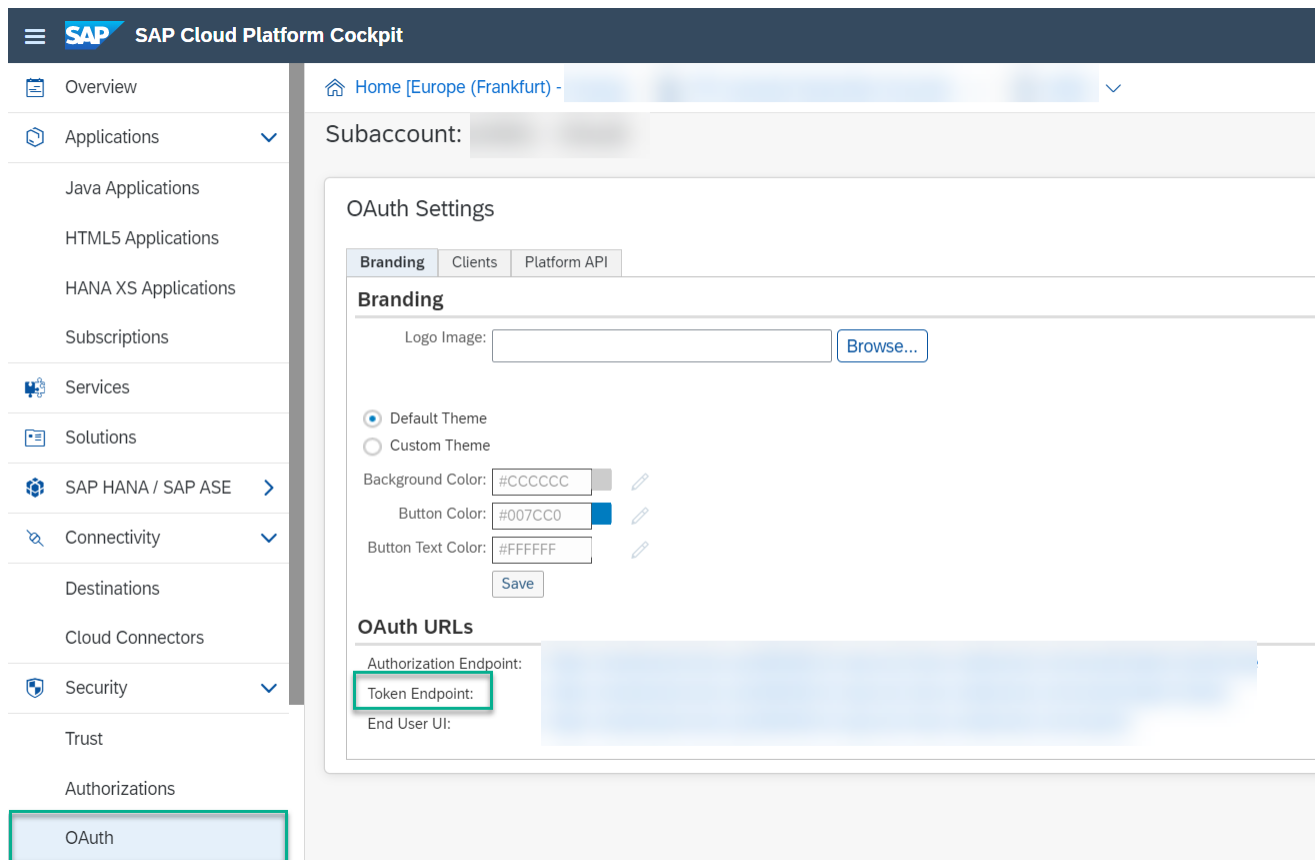
Create a destination with name "CPI" with Type as HTTP, Proxy Type as Internet and Authentication as **Basic Authentication**. Please refer how to [create a HTTP destination](#). The URL should be the runtime URL. Please refer how to get your Cloud Platform Integration tenant [runtime URL](#).

Name: *	<input type="text" value="CPI"/>
Type:	<input type="text" value="HTTP"/>
Description:	<input type="text"/>
URL: *	<input type="text" value="https://[redacted]-iflmap.[redacted].i.com"/>
Proxy Type:	<input type="text" value="Internet"/>
Authentication:	<input type="text" value="BasicAuthentication"/>
User: *	<input type="text" value="[redacted]"/>
Password:	<input type="password" value="*****"/>

You can also configure the destination to use the Authentication as **OAuth2ClientCredentials**. In such case, create an OAuth client in Cloud Platform Integration Neo tenant and enter Client ID and Client Secret. Please refer [how to create a OAuth client in Neo](#).

Name: *	<input type="text" value="CPI"/>
Type:	<input type="text" value="HTTP"/>
Description:	<input type="text"/>
URL: *	<input type="text" value="[redacted]"/>
Proxy Type:	<input type="text" value="Internet"/>
Authentication:	<input type="text" value="OAuth2ClientCredentials"/>
Client ID: *	<input type="text" value="[redacted]"/>
Client Secret: *	<input type="password" value="*****"/>
Token Service URL: *	<input type="text" value="[redacted]"/>
Token Service User:	<input type="text"/>
Token Service Password:	<input type="password"/>

Token Service URL is available in your Cloud Platform Integration Neo account as showed below.



Assign the required [Cloud Platform Integration roles](#) to your OAuth client (oauth\_client\_<client ID>).

## Configure SAP ERP Destination

An RFC destination is required in the Neo account where SAP Cloud Platform Integration is subscribed. Configure destination, Type as RFC, Proxy Type as OnPremise. Please refer how to [create a RFC destination](#). Add Additional Properties jco.client.ashost, jco.client.client, jco.client.sysnr

The destination name need not be 'ECC' as in the screenshot below. If a different name is used, then the same needs to be configured in the SAP Cloud Platform Integration flows.

Name: \* ECC

Type: RFC

Description:

Proxy Type: OnPremise

User:

Password: \*\*\*\*\*

Alias User:

Repository User:

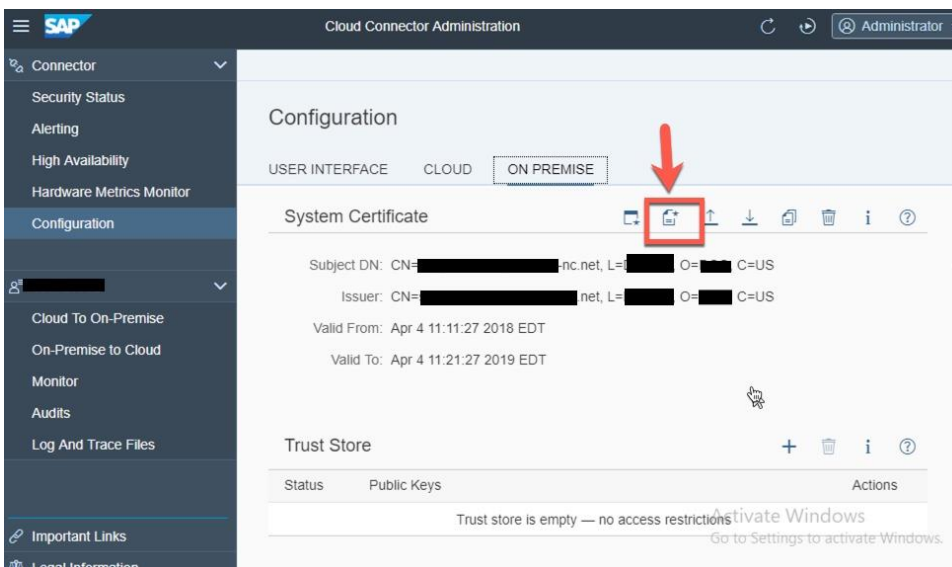
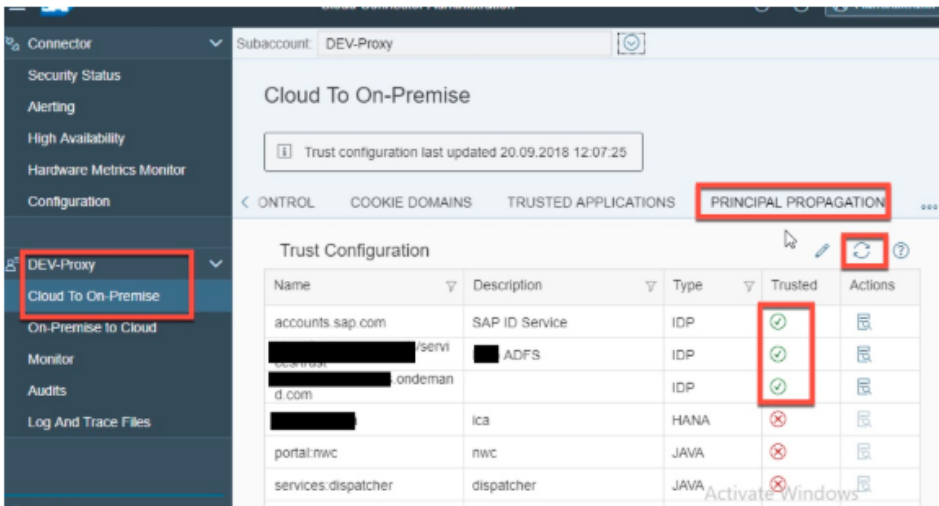
Repository Password: \*\*\*\*\*

Location ID:

Additional Properties

jco.client.ash...		
jco.client.client		
jco.client.sysnr		

For implementing principal propagation from the integration flow to the SAP ERP, synchronize the IDP in SAP cloud connector, create the destination of type IDP and import the self-signed CA certificates.





In SAP ERP, follow these steps to enable principal propagation

1. Import Cloud Connector (SCC) System certificate in STRUSTSSO2 transaction under SSL Server Standard. This established the trust between the backend and SCC.
2. Maintain subject, issuer, cert rule parameter details in default profile – RZ10 transaction.
3. Create the rule-based mapping using sample X.509 certificate – CERTRULE transaction.
4. Restart ICM.

## Configure Cloud Connector

Configure your SAP Cloud Platform Integration account and SAP ERP system in Cloud Connector to enable secure tunnel for RFC calls. Please refer the help documentation to [configure Cloud Connector](#). Expose the Following BAPI/RFC in the SAP Cloud Connector:

- CKBA\_PURCHORG\_GET\_LIST\_RFC
- SMB\_UIE\_GET\_PURCHASING\_GROUP
- BAPI\_MATERIAL\_GETLIST
- BAPI\_MATERIALGROUP\_GET\_LIST
- MMPUR\_UI\_GET\_SUPPLIERS
- BBP\_PLANTS\_GET
- ME\_INFORECORD\_MAINTAIN
- BAPI\_INFORECORD\_GETLIST
- RFC\_READ\_TABLE – This RFC is used in the integration flow 'Read Purchase Info Record Conditions from SAP ERP' to fetch the condition data from A017 and KONP tables and get condition record number, Price, Currency, condition validity. The specific tables and fields have been fixed in the integration flows so that only required data are exposed to the cloud.
- BAPI\_MATERIAL\_GET\_ALL
- BAPI\_TRANSACTION\_ROLLBACK
- BAPI\_TRANSACTION\_COMMIT

## Import, Configure and deploy Integration Content

This Live Process content package require SAP Cloud Platform Integration in Neo Platform to create, modify and release purchase info record line items. An integration content package SAP Cloud Platform Workflow Management Integration with SAP ERP – Purchase Info Record is available in SAP API Business hub to integrate SAP Cloud Platform Workflow Management with SAP ERP. The following Integration models are available in this package. All integration models are using RFC Adapter to call the required APIs in SAP ERP.

**SAP Cloud Platform Integration** Integration Advisor

Design / SAP ERP Purchasing Integration with SAP Cloud Platform Workflow Management /

**SAP ERP Purchasing Integration with SAP Cloud Platform Workflow Management**

Create or update purchase info record in SAP ERP with an approval process using SAP Cloud Platform Workflow Management Vendor: SAP Mode: Editable  
Version: 1.0.0

Overview **Artifacts (14)** Documents (2) Tags Comments

Name	Type	Version	Actions
<input type="checkbox"/> <b>Create Purchase Info Record in SAP ERP</b> Creates a purchase info record in SAP ERP Modified	Integration Flow	1.0.1	>
<input type="checkbox"/> <b>Get Material Code from SAP ERP</b> Query to get available material code from SAP ERP Modified	Integration Flow	1.0.1	>
<input type="checkbox"/> <b>Get Material Group from SAP ERP</b> Query to get available material group from SAP ERP Modified	Integration Flow	1.0.1	>
<input type="checkbox"/> <b>Get Material Group from SAP ERP</b> Read material group from SAP ERP Modified	Integration Flow	1.0.1	>
<input type="checkbox"/> <b>Get Plant from SAP ERP</b> Query to get available plant from SAP ERP Modified	Integration Flow	1.0.1	>
<input type="checkbox"/> <b>Get Purchase Group from SAP ERP</b> Value Search help from ERP Unmodified	Integration Flow	1.0.0	>
<input type="checkbox"/> <b>Get Purchase Info Record Conditions Validity from SAP ERP</b> Read condition validity for purchase info record from SAP ERP Modified	Integration Flow	1.0.2	>
<input type="checkbox"/> <b>Get Purchase Information Record from SAP ERP</b> Read purchase info record data from SAP ERP Modified	Integration Flow	1.0.1	>
<input type="checkbox"/> <b>Get Purchase Organization from SAP ERP</b> Query to get available purchase organization from SAP ERP	Integration Flow	1.0.2	>

Import the Content package to your SAP Cloud Platform Integration tenant. To be able to import and deploy integration flows, you need the AuthGroup.IntegrationDeveloper role assigned in your tenant.

### Import Prepackaged Integration content using SAP Cloud Platform Integration

- Access your SAP Cloud Platform Integration Tenant management node (<https://<cpitenant>.hana.ondemand.com/itspaces>). Please refer [help documentation](#) on how to get tenant management node address.
- View all pre-packaged integration flow under *Discover->Integration* (<https://<cpitenant>.hana.ondemand.com/itspaces/shell/discover>).
- Search content package “SAP Cloud Platform Workflow Management Integration with SAP ERP – Purchase Info Record”
- Click to open on the package SAP Cloud Platform Workflow Management Integration with SAP ERP – Purchase Info Record.
- Click *Copy* to import the integration content package to your workspace.
- Navigate to *Design* to open the imported content package.

- Open all Integration models, select *Externalized Parameters*, set configured value as RFC Destination created in the section **Configure SAP ERP Destination** of this document.

Configure "Create Purchase Info Record in SAP ERP"

The screenshot shows a configuration window titled "Configure 'Create Purchase Info Record in SAP ERP'". It has a "Receiver" tab selected. Under "Receiver", there is a dropdown menu for "Receiver" set to "SAPERP" and another dropdown for "Adapter Type" set to "RFC". Under the "Connection" section, there is a text field for "Destination" containing "ECC" and a checked checkbox for "Send Confirm Transaction".

- Deploy the integration model

These Integration models are used from the SAP Cloud Platform Workflow Management Live Process content package Maintain Purchase Info Record.

## Import SAPUI5 Application

The Maintain Purchase Info Record process content package requires a SAPUI5 application in order to initiate the create or change process. You can download the source code of the SAPUI5 application from the [SAP Cloud Platform Workflow Samples repository in GitHub](#). Follow the instruction as maintained in the GitHub to import the SAPUI5 app into the SAP Cloud Platform account using SAP Web IDE or SAP Business Application Studio.

## Configure Roles and Authorization

To create or change purchase info record in SAP ERP the following authorization objects are used:

- M\_EINF\_EKG – Authorization Object for Purchasing Group in Purchasing Info Record
- M\_EINF\_EKO – Authorization Object for Purchasing Organization in Purchasing Info Record
- M\_EINF\_WRK – Authorization Object for Plant in Purchasing Info Record

If the same authorization should be available in SAP Cloud Platform, then create a corresponding role template & scopes should be added to the SAPUI5 application. Role collections should be created with the role template and assigned to the required users. Only those users who have that role collection should be able to access the app Purchase Info Record – Manage in SAP Fiori Launchpad.

## Limitations

Below are the limitations for Maintain Purchase Info Record content package:

- The application can only handle Purchase Info Record with plant specific data.

- When a creation or change request is in-process with SAP Cloud Platform Workflow Management, the corresponding purchase info record is not 'locked' for modification in SAP ERP. Any changes directly made in SAP ERP during the approval process will be overwritten by the data submitted from the application. If the use case requires both SAP ERP as well as the cloud application to be used in conjunction, then implement appropriate locking mechanism.
- Mass maintenance of purchase info record is not supported.
- Archiving or deleting purchase info record is not supported.