

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Setup Guide

Maintain Purchase Info Record

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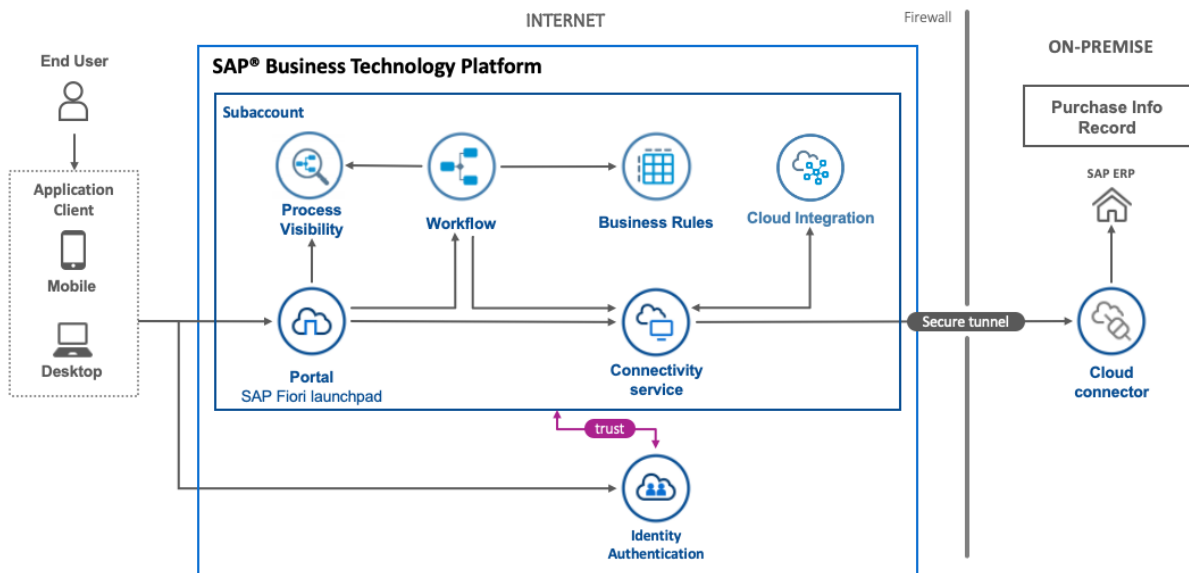
Overview

This document provides information about setting up the SAP Business Technology 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 ECC customers to automate the create and change of Purchase Info Record using SAP 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 Workflow Management.
- Out-of-the-box visibility into key process performance indicators.

SAP ERP – Maintain Purchase Info Record



Required SAP BTP 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 Business Technology Platform.

- SAP Workflow Management to orchestrate the process.
- SAP Integration suite to consume the RFC, BAPI from SAP ERP.
- SAP Cloud Connector to establish access to on-premise resources.
- SAP Cloud Portal Service or SAP Launchpad Service to access the apps that are involved in the process.
- SAP Cloud Identity Services - Identity Authentication (optional).
- SAP Web IDE or SAP Business Application Studio to modify/deploy the SAPUI5 applications.
- SAP BTP, Cloud Foundry runtime.

Setup and Configuration

Configure SAP Workflow Management

Maintain Purchase Info Record live process content package requires SAP Workflow Management subscription or a CPEA contract. Follow the setup and configuration section of SAP 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. Create a destination with name “BusinessRules” with the following configuration, if it doesn’t exist already. Please refer how to [create a HTTP destination](#) and [how to access business rules APIs](#) using OAuth 2.0 Authentication (client credentials)

Name	BusinessRules
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<rule_runtime_url>/rules-service
Client ID	
Client Secret	
Token Service URL	<uaa.url>/oauth/token

Configure OAuth2ClientCredentials Business Rules Destination (Service Instance)

Create new Destination to call Business Rules Service APIs using a Service route from SAP UI5 Component.

- Click New Destination.
- Select **Service Instance** as Destination Configuration.

- Select Service Instance as BusinessRules.
- Enter Name as BusinessRules_CFLP and click Next button.

Destination Configuration Blank Template Service Instance

Service Instance: *

Name: *

Description:

- Click Save button.

Destination Configuration

Name: *

Type:

Description:

URL: *

Proxy Type:

Authentication:

Client ID: *

Client Secret:

Token Service URL: *

Token Service User:

Token Service Password:

Additional Properties

endpoints	{ "rule_repository_url": ... }	<input type="button" value=""/>
html5-apps-r...	{ "app_host_id": "cbd0c...	<input type="button" value=""/>
saasregistrye...	true	<input type="button" value=""/>
sap.cloud.se...	com.sap.bpm.rule	<input type="button" value=""/>

Use default JDK truststore

Configure OAuth2ClientCredentials Workflow Destination (Service Instance)

Similarly, create new Destination to call Workflow Service APIs using a Service route from SAP UI5 Component. For more details, follow the official help document:

<https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/685f383cebb54c009b2fac633b32c90f.html>

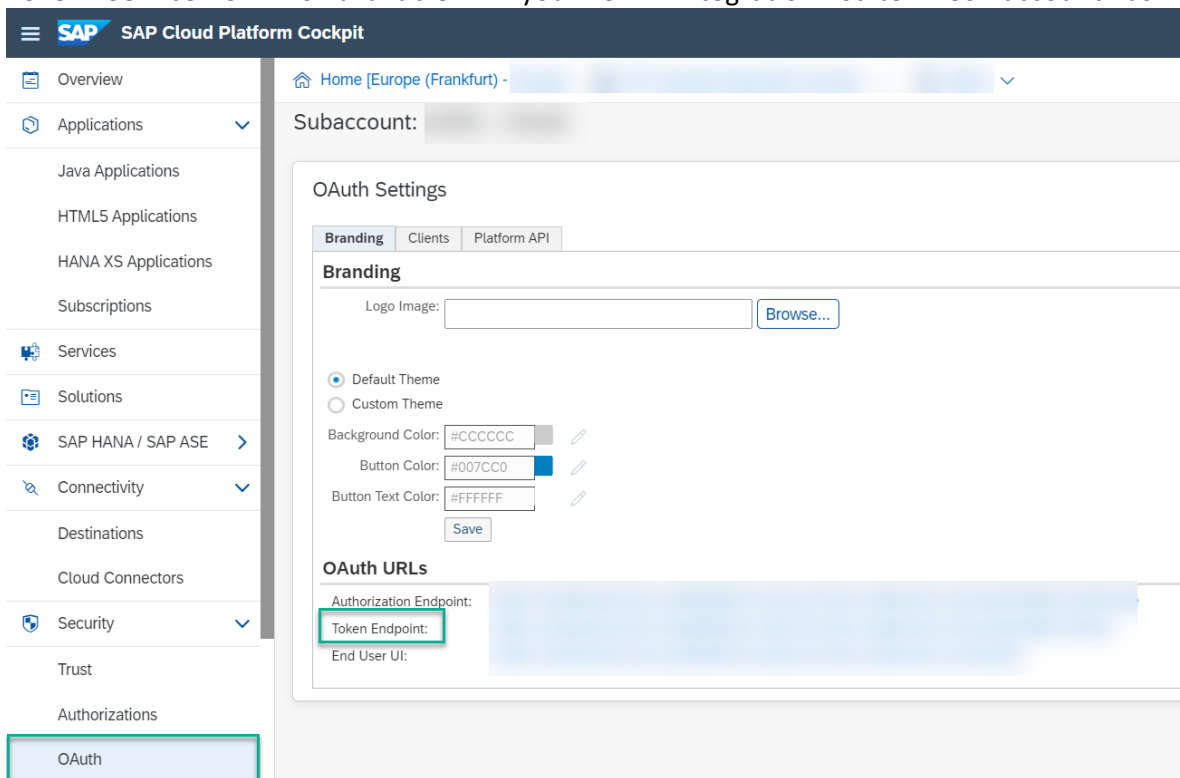
Configure Integration Destination

To call an integration flow, a HTTP destination is required in the SAP BTP tenant where the SAP Workflow Management is subscribed. Create a destination with name CPI with Type as HTTP, Proxy Type as Internet and Authentication as BasicAuthentication. Please refer how to [create a HTTP destination](#). The URL should be the runtime URL. Please refer how to get your SAP Integration Suite tenant [runtime URL](#).

You can also choose to configure the destination to use the Authentication as OAuth2ClientCredentials. If you are using SAP BTP Neo environment tenant, create an OAuth client and enter Client ID and Client Secret. Please refer [how to create an OAuth client in SAP BTP Neo environment](#).

Name	CPI
Type	HTTP
Proxy Type	Internet
Authentication	Basic Authentication OR OAuth2ClientCredentials
URL	<runtime.url>
Username OR Client ID	
Password OR Client Secret	
Token Service URL	<oauth.url.for.clientCredentials>

Token Service URL is available in your SAP Integration Suite Neo account as shown below.



Assign the required [Integration roles](#) to your OAuth client (with user id in the format oauth_client_<client ID>).

Configure SAP ERP Destination

An RFC destination is required in the account where Cloud Integration capability within SAP Integration Suite is subscribed. Configure destination, Type as RFC, Proxy Type as OnPremise. Please refer how to [create a RFC destination](#). Add Additioanl 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 Integration flows.

Name	ECC or <ANYNAME> Note: You can name it as you wish but maintain the destination name in the integration flow configuration.
Type	RFC
Proxy Type	OnPremise
User	<ECC USER>
Password	<ECC PASSWORD>
Repository User	
Repository Password	
Location ID	<optional>
Additional Property	Name: jco.client.ashost Value: <abapServerHost> Name: jco.client.client Value: <client id> Name: jco.client.sysnr Value: <systemNumber>

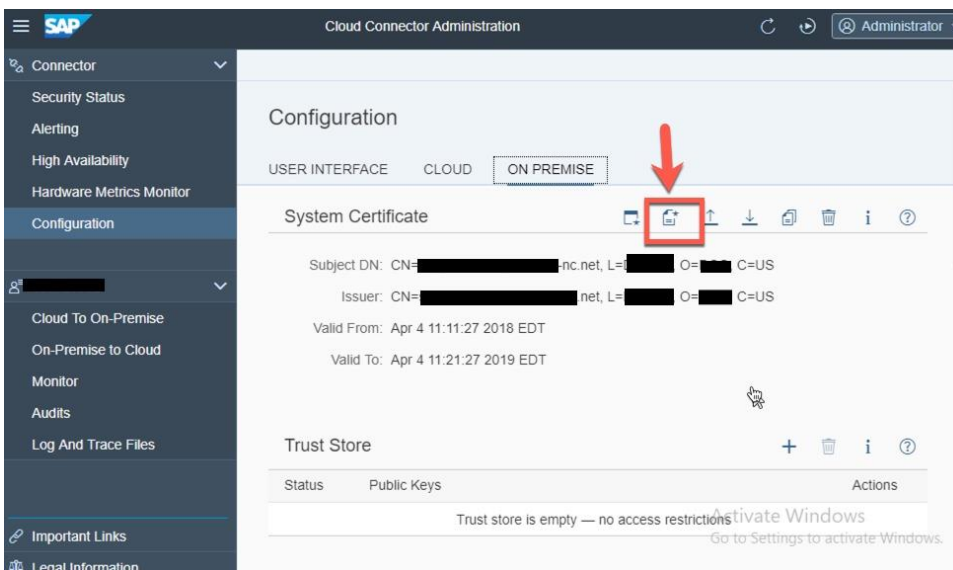
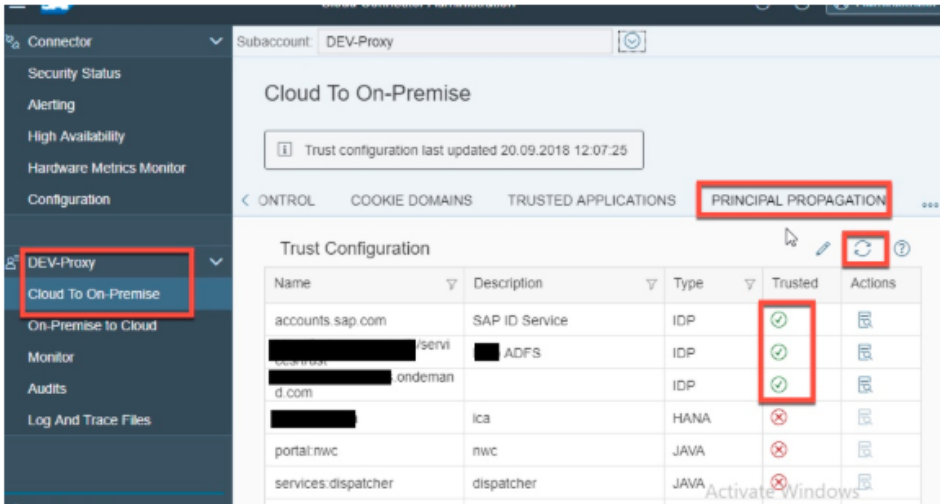
Configure Cloud Connector

Configure your SAP BTP tenant 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

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.

Import, Configure and deploy Integration Content

This live process content package requires Cloud Integration capability within SAP Integration Suite to

create, modify and release purchase info record. An integration content package SAP ERP Integration with SAP Workflow Management – Info Record is available in SAP API Business hub to integrate SAP Workflow Management with SAP ERP. All integration models uses the RFC Adapter to call the required RFC/BAPI in SAP ERP. The following Integration models are available in this package.

The screenshot shows the SAP Cloud Integration interface. The top navigation bar includes 'SAP Cloud Integration' and 'Integration Advisor'. The main header displays 'Design / SAP ERP Integration with SAP Workflow Management - Info Record / SAP ERP Integration with SAP Workflow Management - Info Record'. Below the header, there are tabs for 'Overview', 'Artifacts (14)', 'Documents (2)', 'Tags', and 'Comments'. A search bar labeled 'Filter Artifacts' is present. The main content area is a table with columns: Name, Type, Version, and Actions. Each row represents an integration flow artifact, including a checkbox, the artifact name, a brief description, the type 'Integration Flow', the version '1.0.1', and an 'Actions' icon.

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

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

Import Prepackaged Integration content in SAP Integration Suite

- Access your SAP Integration Suite 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 Workflow Management Integration with SAP ERP – Purchase Info Record”
- Click to open on the package SAP 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 with the following fields:

- Receiver:** SAPERP (dropdown menu)
- Adapter Type:** RFC (dropdown menu)
- Connection:**
 - Destination:** ECC (text input field)
 - Send Confirm Transaction:**

- Deploy the integration model

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

Configure SAP Central Fiori Launchpad Site

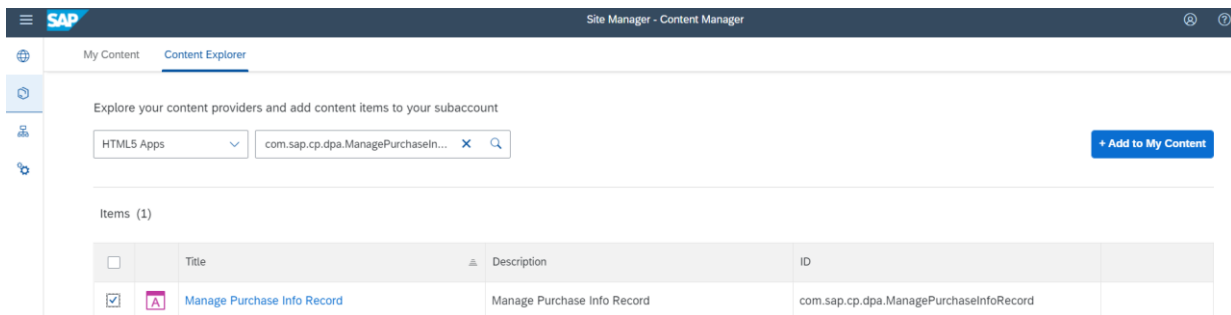
If you plan to use SAP Launchpad service, then configure [SAP Central Fiori Launchpad Site with Workflow Applications](#) using help documentation.

Import SAPUI5 Application

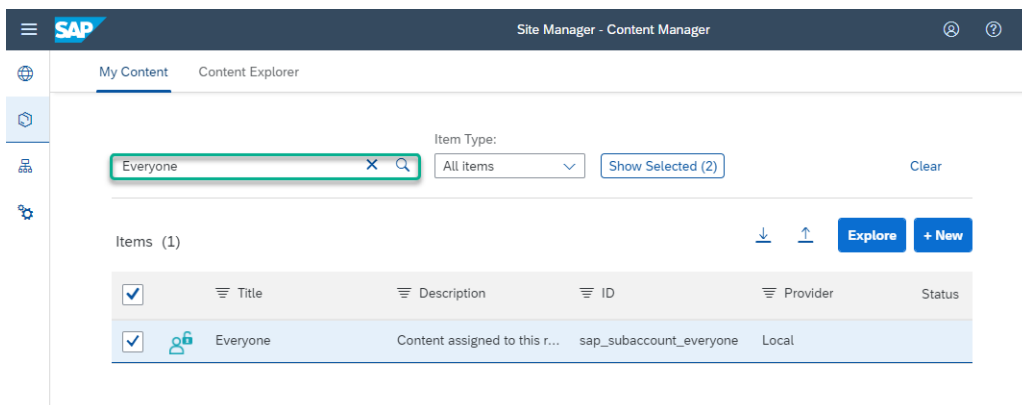
The Maintain Purchase Info Record process content package requires a SAPUI5 application in order to initiate the create or change process. You can download the source code of the SAPUI5 application from the [SAP Samples GitHub](#). Follow the instruction as maintained in the GitHub to import the SAPUI5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

Add Custom UI Application (as Workflow Start UI) in Fiori Launchpad Site

- Open SAP Launchpad site manager application.
- Select **Content Manager** and **Content Explorer**.
- Search com.sap.cp.dpa.ManagePurchaseInfoRecord and select SAP UI5 component.
- Click Add to My Content button to include the UI5 component.



- Select **My Content** tab and search **Everyone**.
- Click **Everyone** from the result and navigate to the details.



- Click **Edit** button to enable all users to access the new Start UI tile.
- In **Assignments** section on right, search for text **info** and select **Manage Purchase Info Record** from the **Results**.
- Click the **+** button and click **Save**.
- Under **My Content** tab, click **New** button and select **Group**.
- Add a **Title** for e.g.: **Manage Purchase Info Record** under **PROPERTIES**.
- In the **Assignments** section on right, search for text **info** and select **Manage Purchase Info Record** from the **Results**.
- Click **+** button and **Save** button.

Please refer help documentation to know more about [configuring start UI tile on Central Fiori Launchpad](#)

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 BTP, 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 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.