



PUBLIC

SAP Build Process Automation

Mass Fixed Asset Acquisition

Configuration and User Guide

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Change Log

Version	Date	Description
1.0.0	November 1, 2023	Document Created
1.0.3	February 23, 2024	Bug Fix in the UI

This document contains 3 sections. Each section covers different information about this template content package.

1. Overview: In this section, you will get quick overview of the use case, what are high-level components used and how the template works in nutshell. Prerequisite section provides information of different services of SAP Business Technology Platform (BTP) that are required to use this template.

2. Configuration Guide: It contain sections which will guide you to setup your (a) SAP BTP Account with destination, cloud connector, user roles etc., (b) SAPUI5 application via SAP Business Application Studio and (c) Import and configure the template using SAP Build Process Automation design studio and (d) SAP Work Zone to access the My Inbox or Task Center and other applications.

3. User Guide: This section provides details about different artefacts that are used in this template like process definition, decision diagram, action project details, forms, email notifications etc. to better understand how different capabilities are used in this template.

Notes:

- This documentation is not a detailed guide to setup SAP BTP services. It assumes that IT admin who is setting the content is skilled with SAP BTP environment. Configuration section has to be mandatorily followed to import and configure the template.
- This template content is to accelerate your solution development. You must modify this template according to your requirements to achieve the desired business goal. To use this template content, you need to have basic knowledge and understanding of SAP Build Process Automation and its capabilities.

Overview

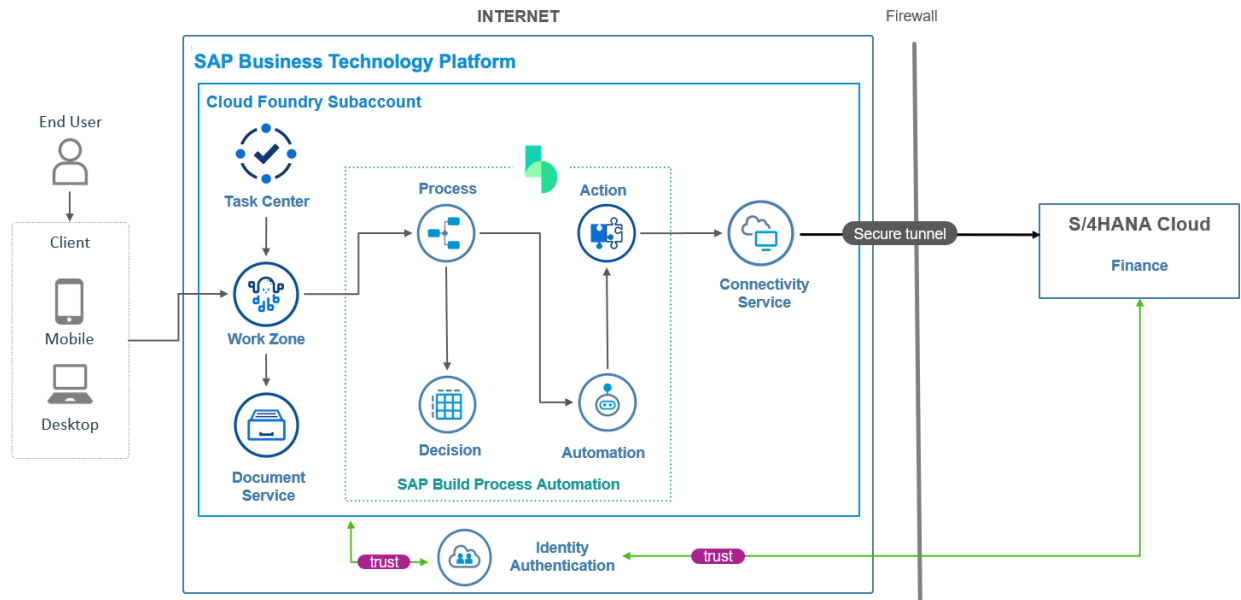
This document provides information about setting up the SAP Business Technology Platform account to consume the SAP Build Process Automation **Mass Fixed Asset Acquisition Template**. The main audience of this document are technical IT/system administrators.

Automation facilitates to create the Mass Fixed Asset Acquisition.

Features:

- The Automation must be able to automatically get Fixed Asset Acquisition Details from SAP S/4HANA system to fill the excel template and send the mail.
- Update the required additional data in excel template.
- After uploading the excel template, will be sent for the approval.
- Approver will be determined and notified for the approval.
- Automation must be able to automatically generate the log file once the uploaded file is approved and send the email with Log File

Process Flow Diagram



Steps:

1. In Start UI, fill required selection criteria and request for extraction of Fixed Asset Acquisition data.
2. Read Fixed Asset Acquisition from SAP S/4HANA system and fill excel template.
3. Send the pre-filled excel template as attachment via email.
4. User will fill required additional data in excel template and upload in the Start UI then submit for approval.
5. Approver determined from Decision table and approver will receive a Task UI for approving the changes.
6. Once tasks are approved, Fixed Asset Acquisition excel file is stored in predefined folder.
7. Another Automation will read these excel files and POST Fixed Asset Acquisition data to SAP S/4HANA.
8. Execution logs created in excel format and send email to the requester.

The following steps are included as a part of Mass Fixed Asset Acquisition Creation template and provide a brief overview about the process flow & features of Mass Fixed Asset Acquisition Creation template:

- This package provides automation for fetching the Asset Acquisition details from SAP S/4HANA and will be entered automatically in **MassAssetAcquisitionTemplate** excel template file (MassAssetAcquisitionTemplate.xlsx)
- The fetched data will be saved in the excel file "**FixedAssetAcquisition_<Timestamp>.xlsx**" in the folder where you have defined in the key parameters then it allows user to update details for Fixed Asset Acquisition.
- After POST call the Log report will be generated in the name of "**FixedAssetAcquisitionLogReport_<Timestamp>.xlsx**" and will be placed in the folder "**LogReport**" inside the base folder path provided by user and notifies the requester through email about the completion with the log report attached to it.

Prerequisites

The following SAP Business Technology Platform services are required to consume the content package.
Mass Fixed Asset Acquisition Creation:

- SAP Build Process Automation to orchestrate the process.
- SAP Cloud Identity Services - Identity Authentication (Optional)
- SAP Connectivity service to establish access to SAP S/4HANA, Public Edition.
- SAP Business Technology Platform, Cloud Foundry runtime
- SAP Work Zone, standard or advanced edition for accessing MyInbox and Process Visibility workspaces.
- SAP Business Application Studio for SAP UI5 application

Other Prerequisites

For this template to run successfully the following other prerequisites are needed

- SAP Desktop Agent 3.13 or higher
- Outlook mailbox configured on the system where the automations will run to send mails with attachments.

Notes:

- This package is designed only to work with the provided folder structure & input template file structures. DO NOT CHANGE any column properties and structure.
- If any changes done in the input template structure, related process & automation implementation also need to be updated to handle those changes.
- You can decide the folder by the key parameters where the input template should be placed.
- The input template **MassAssetAcquisitionTemplate.xlsx**
- The input excel has 2 sheets 'FieldList' and 'Asset Acquisition'.

In Field List sheet, mandatory fields details are updated. Please fill mandatory fields and upload input template. If mandatory fields are not filled, then Automation will throw errors.

Configuration Guide

Mass Fixed Asset Acquisition template requires SAP Build Process Automation subscription or CPEA contract. Follow the [setup and configuration section](#)

Setup SAP S/4HANA

Configure SAP S/4HANA Destination

Configure Destination to Connect to SAP S/4HANA Cloud System

Destination Property	Value
Name	<Name>
Type	HTTP
URL	<SAP S/4HANA endpoint> Example: https://<s4system-name>-api.xxxxxxxx
Proxy Type	Internet
Authentication	Basic Authentication
Username	<Username> of the SAP S/4HANA Communication User
Password	<Password> of the SAP S/4HANA Communication User

Note: For SAP S/4HANA Cloud and on-premises, the API should be accessible over internet proxy type, as iRPA Automation does not support on-premises as proxy type as explained in the SAP Note.

Note: Add the following additional properties to the destination

Destination Additional Property	Value
HTML5.DynamicDestination	True
sap.applicationdevelopment.actions.enabled	True
sap.processautomation.enabled	True

Destination Configuration

Name: *	<input type="text" value="S4HANA"/>	Additional Properties	
Type:	<input type="text" value="HTTP"/>	<input type="text" value="HTML5.Dynami..."/>	<input type="text" value="true"/>
Description:	<input type="text" value="S/4 Hana System"/>	<input type="text" value="sap.application..."/>	<input type="text" value="true"/>
URL: *	<input type="text"/>	<input type="text" value="sap.processaut..."/>	<input type="text" value="true"/>
Proxy Type:	<input type="text" value="Internet"/>	<input type="text" value="TrustAll"/>	<input type="text" value="true"/>
Authentication:	<input type="text" value="BasicAuthentication"/>		
User: *	<input type="text"/>		
Password:	<input type="password"/>		

Setup Communication

To run this template, you must have a communication user, create communication arrangements between the communication user and the following communication scenarios, and assign those communication arrangements to a communication system.

Steps to Create Communication System and Communication Arrangement are available in below documentation links:

[How to Create Communication Systems | SAP Help Portal](#)

[How to Create a Communication Arrangement | SAP Help Portal](#)

[Configuration and Role Details for accessing "Communication Systems" application.](#)

[Configuration and Role Details for accessing "Communication Arrangements" application.](#)

List of communication scenarios to be configured.

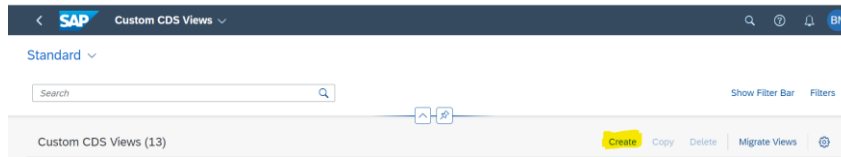
Communication Scenario	Related API
Finance - Fixed Asset Integration (SAP_COM_0563)	https://api.sap.com/api/CE_FIXEDASSETACQUISITION_0001/overview
An additional communication scenario assigned with custom inbound services	You need to create custom CDS views in your SAP S/4HANA Cloud system, expose them as external APIs, and then create a communication scenario and add these inbound services to this scenario. For details, see next section.

Configure Custom CDS Views and Create Additional Communication Scenario

[Configuration and Role Details for accessing "Custom CDS View" application.](#)

[Configuration and Role Details for accessing "Communication Scenario" Application.](#)

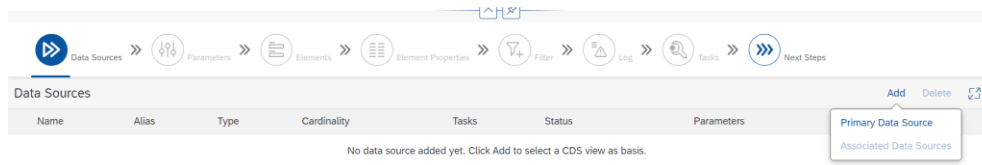
1. Open the Custom CDS Views app.



2. Click Create and select the scenario External API.

Name – YY1_FixedAsset

3. Select your Primary Data Source – I_FixedAsset



If I_FixedAsset is not available in the search list, Change the Filter Criteria “Recommended Data Source” to “No”

Select: Primary Data Source

Recommended Data Source: No

Status:

Protection:

Analytics Category:

Parameter:

Masterdata View:

Text View:

Data Sources (9)

Name	Label	Source Origin	Modeling Source	Modeling Association
I_FixedAsset	Fixed Asset	ABAP Development Tools		

- Go To Elements Tab and add Elements – CompanyCode, MasterFixedAsset, FixedAsset, FixedAssetDescription, AssetClass

Elements (4)

Key	Alias	Type	Path	Label	Calculation	Task
☒	CompanyCode	CHAR (4)	I_FixedAsset.CompanyCode	Company Code		
☒	MasterFixedAsset	CHAR (12)	I_FixedAsset.MasterFixedAsset	Asset		
☒	FixedAsset	CHAR (4)	I_FixedAsset.FixedAsset	Subnumber		
☐	FixedAssetDescription	CHAR (50)	I_FixedAsset.FixedAssetDescription	Description		

- Check and Publish**
- Open the Communication Scenarios app and create a new communication scenario.
(We have referred to -[Create an Additional Communication Scenario | SAP Help Portal](#))
- Add the inbound services *CustomCDSViewName*_CDS to the communication scenario and publish it:
 - YY1_FixedAsset_CDS**
- Open the Communication Arrangements app and create a communication arrangement based on this newly created custom communication scenario.
- In the Communication System field under Common Data, select the communication system that you have created following the Create Communication System step mentioned in [Set Up Communication](#).
- Save your entries.

Setup Business Technology Platform Cockpit

Configure SAP Document Management Service

In this template, the Input Template document for Mass Fixed Asset Acquisition and any supporting documents can be uploaded in the approval form which are then made available as attachments for review and approval to the respective participants. To upload the document from the form, you will need SAP Document Management Service or equivalent CMIS repository and a corresponding destination in SAP BTP to connect to the repository.

- Follow the instructions to configure [SAP Document Management Service for Attachments](#)
- Add service instance and service key (follow [this](#)) and repository (follow [this](#)) to Configure the Destination
- Configuring destination, refer [Configure SAP Document Management Service Destination](#)

Note: The destination needs to be created with **sap_process_automation_document_store** name.

User Roles Configuration

To access this template, the business user will need these roles:

Role Collection Name	Purpose
Process Automation Developer	Standard Business User, can model and publish processes
TaskCenterAdmin	Permission to execute calls to the Connector Status API and monitor configured destinations and running background jobs.
ProcessAutomationParticipant	To execute (like accessing MyInbox, running the automations, etc.) this content package, you need to have this role assigned to the respective user.
ProcessAutomationAdmin	To perform process admin activities like accessing monitoring application etc., you need to have this role assigned to the respective user.
Business_Application_Studio_Administrator	Allows administrators to manage (export and delete) user data.
Business_Application_Studio_Developer	Allows developers to load and develop applications using SAP Business Application Studio.

For more information about SAP Build Process Automation roles, see [Authorizations](#).

Setup Build Process Automation Content

Standard automation packages released by SAP will be available at the [SAP Build Store](#)

Import Content

This template can be downloaded from the Store:

1. Navigate to the Store in your SAP Build Process Automation account.
2. Select the Project Type filter as “process automation”.
3. In the Search bar type “**Mass Fixed Asset Acquisition**”
4. Select the “Create from Template” button to add the template into your lobby.
5. After successfully adding the template, navigate back to the lobby to find the “Mass Fixed Asset Acquisition” template available for use.

Caution: Be sure to select the **Project Type** as “**Process Automation**” in the filters.

Configuration & Modification

Once you have added the content to your lobby, you will find the project in your project list. Adapt the content template based on your requirements, and then release and deploy from the Lobby. In case any enhancement needs to do then follow the below reference links.

Create an Automation

<https://help.sap.com/docs/build-process-automation/sap-build-process-automation/create-automation-process-automation>

Create a Business Process

<https://help.sap.com/docs/build-process-automation/sap-build-process-automation/create-business-process>

Create a Forms

<https://help.sap.com/docs/build-process-automation/sap-build-process-automation/create-form>

Create a Decision

<https://help.sap.com/docs/build-process-automation/sap-build-process-automation/create-decision>

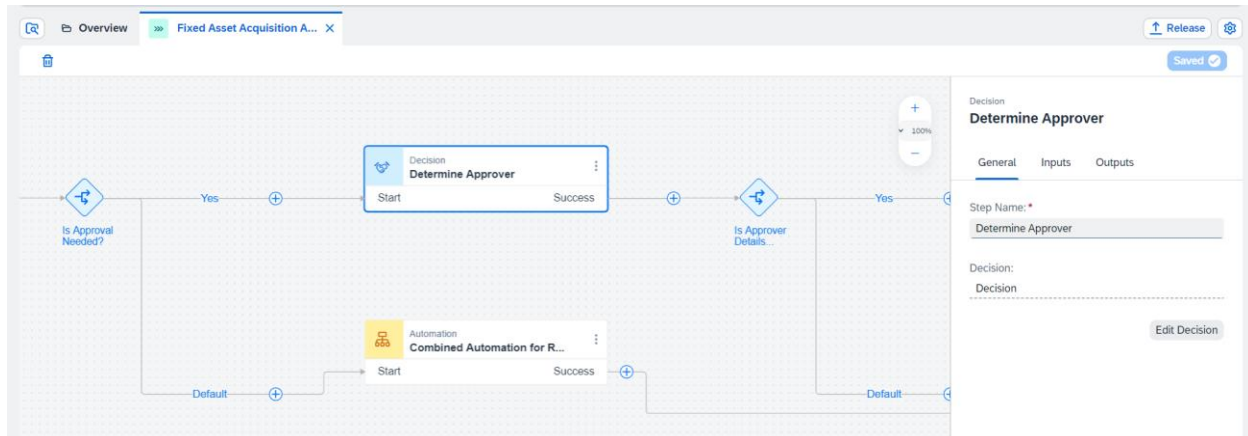
Create a Datatype

<https://help.sap.com/docs/build-process-automation/sap-build-process-automation/create-data-type-process-automation>

Configure Decisions

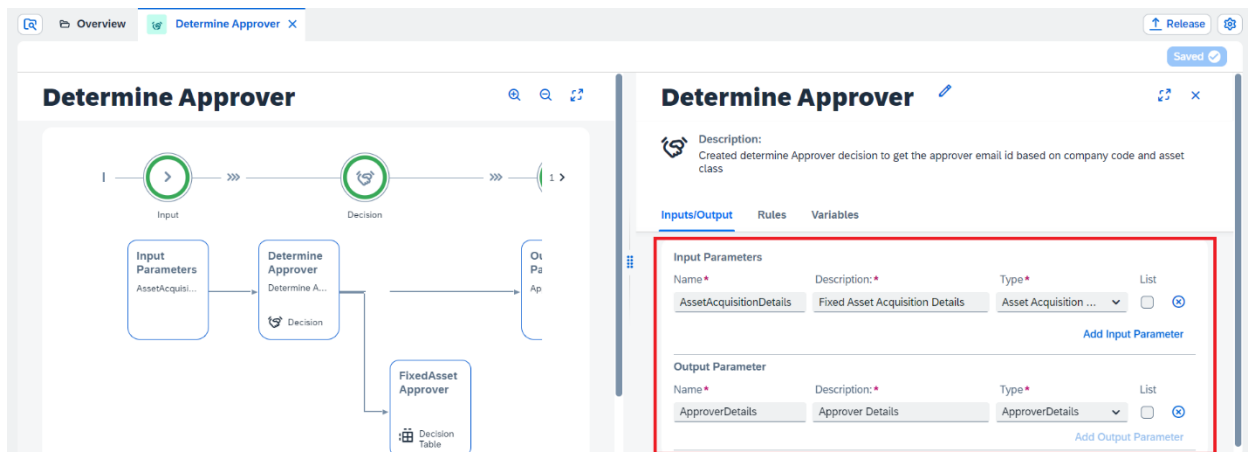
We have following decisions in this template.

Determine Approver - This decision is used to determine the approver email id, user id, user group based on company code and asset class where the approval task for the grouped Asset Acquisition will be sent.



These decisions must be modified for conditions and result values based on your business policies and requirements. To modify the decision:

- In process editor, double click to open the Decision.
- Select the rule from the decision diagram.



The attributes used in the decision rule can be selected as per requirement.

Edit Rule

1 Rule Details — **2 Configure Conditions** — 3 Configure Results — 4 Review

2. Configure Conditions

Click a vocabulary or its fields to configure the conditions.

Vocabulary

Search vocabulary or its fields

Input / Output

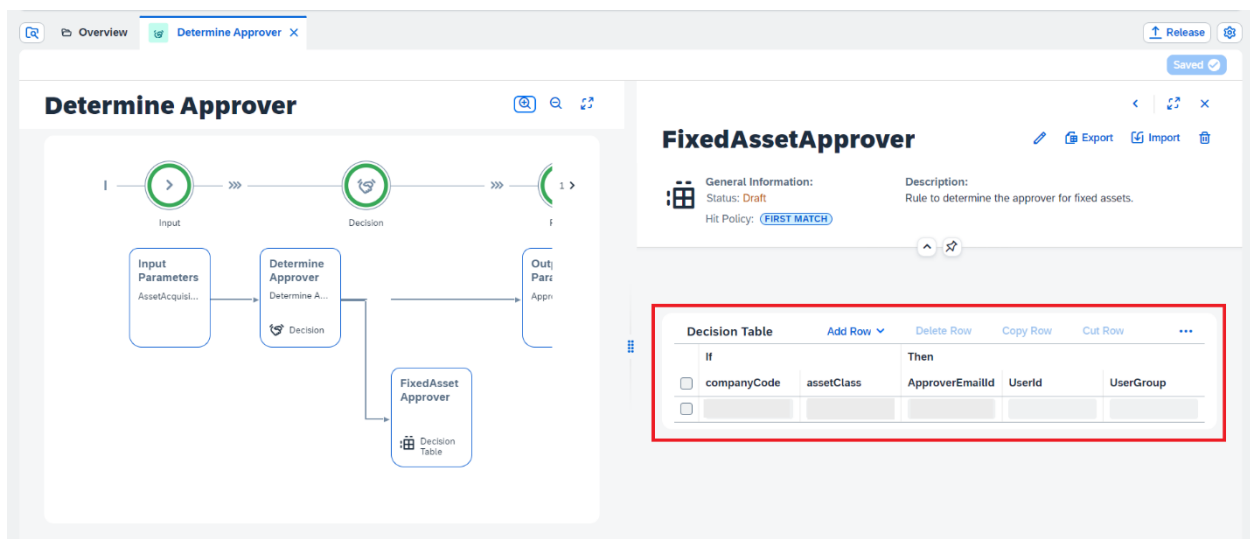
- ApproverDetails
- AssetAcquisitionDetails

Condition Details

Condition Attributes	Label	Operator (Optional)
☐ AssetAcquisitionDetails.companyCode	companyCode	<input type="text" value=""/>
☐ AssetAcquisitionDetails.assetClass	assetClass	<input type="text" value=""/>
☐ Use vocabulary or Ctrl+Space for expressions		<input type="text" value=""/>

Previous Step Next Step Cancel

- Edit the rule to add more rows or update existing values.



Determine Approval Needed – This decision is used to determine whether the approval is required or not for Asset Acquisition. If required, it will group the Asset Acquisition and send for the approval else it will create or update the Fixed Asset Acquisition.

This decision can be selected from process “**Fixed Asset Requisition Approval Process**” and these decisions must be modified for conditions and result values based on your business policies and requirements. To modify this decision, follow similar steps as those mentioned for Decision **Determine Approver**.

Determine Admin- This decision is used to determine the admin email id, user id, user group based on company code and asset class if approver is not maintained in Determine approver decision.

This decision can be selected from process “**Fixed Asset Requisition Approval Process**” and these decisions must be modified for conditions and result values based on your business policies and requirements. To modify this decision, follow similar steps as those mentioned for Decision **Determine Approver**.

Configure Email

Email notifications are sent to requestor and approver at different places during process and task execution. All the email artefacts in the process have default template body which can be changed.

To update the email body content, do the following:

- Open “**Fixed Asset Requisition Approval Process**” process artefacts
- Select the mail artefact in the process.
- From the **Settings** in the right-side panel, check the **Mail Header** to confirm the **To** field (or email recipients) and the **Subject**. You can adjust the subject and recipient, if needed.
- You may also add someone in **CC**.
- Click to ‘**Open Mail Body Editor**’.

Edit Mail Body

Value Binding

Search

Determine Admin

AdminDetails

EmailId

UserGroup

Userld

Determine Approver

ApproverDetails

ApproverEmailId

UserGroup

Userld

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Dear Admin,

The approval process is blocked for the below company code and asset class for Fixed Asset Acquisition as the approver is not maintained. Please assign an appropriate user or group to the process instance for the approval process to continue from the monitoring application.

Company Code: » companyCode x

Asset Class: » assetClass x

Process Instance Id: » Process Instance Id x

Please follow below steps to assign approver:

1. Open "SAP Build Process Automation"
2. Go to "Monitoring" tab
3. Open "Process and Workflow Instances" app
4. Search for above mentioned "Process Instance Id"
5. Click on the searched process instance
6. Click on "Additional Options" (denoted by three dots i.e. "...")
7. Click on "Show Tasks"
8. Click on "Assign Processor"
9. Enter the approver user-id

Apply

Cancel

- The mail editor allows you to write and adjust text according to your needs. You can also reuse information that has been collected during the process. If you want to use additional process context data, you can simply drag the fields from the left menu to the editor on the right.

For more information on email configuration and text, refer to the below link:

<https://help.sap.com/docs/build-process-automation/sap-build-process-automation/add-mail-notifications-to-process?q=email%20body>

Configure Destination Settings

Actual destinations that are created in SAP BTP cockpit will be required when you deploy the process. This actual destination will be mapped the destination environment variables during deployment.

For this package following destination needs to be configured in the SAP BTP cockpit:

- **S4HANA_CLOUD**
- **sap_process_automation_document_store**

Note: Above destination names have been configured in BTP but can be named as per the project requirement.

To configure destination,

- Click on **Settings**.
- Select **Destinations** from the left panel.
- Click **New Destination**

Select these destinations to be added (Created in the above section). For more information and screen shots, please refer to the below link:

<https://help.sap.com/docs/build-process-automation/sap-build-process-automation/manage-destinations?q=destination%20setting>

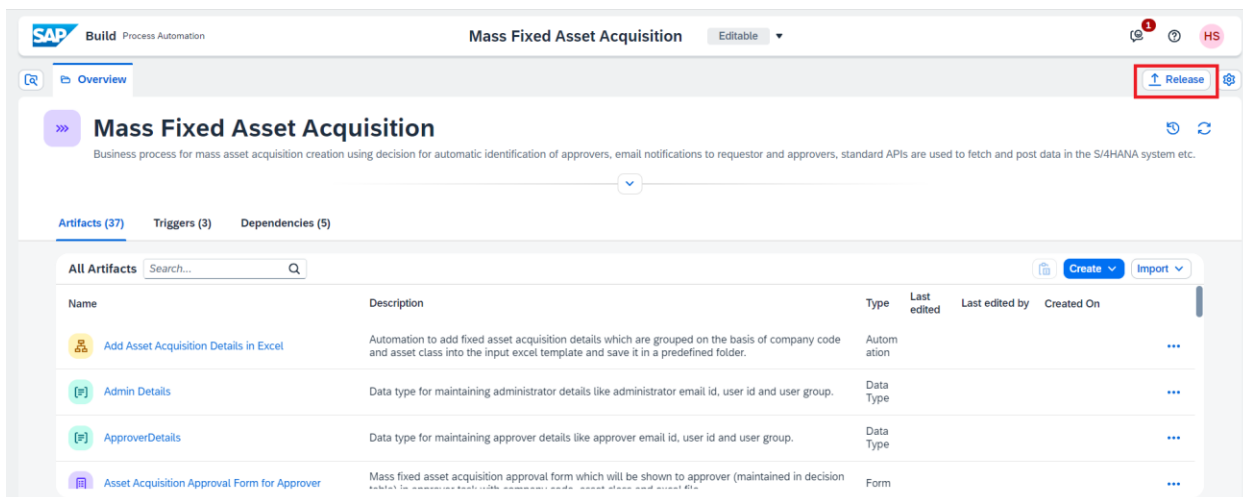
Release and Deploy the Process

After configuring your process, it's time to publish, test and run it. To run a process, you must first release and deploy it.

Release - This locks the version of your process, meaning that no further edits can be made to that version. At this stage, the process can't be run and isn't available to participants yet.

To release a version of your process,

- First ensure that the status is listed as 'Editable'.
- Then click 'Release'.

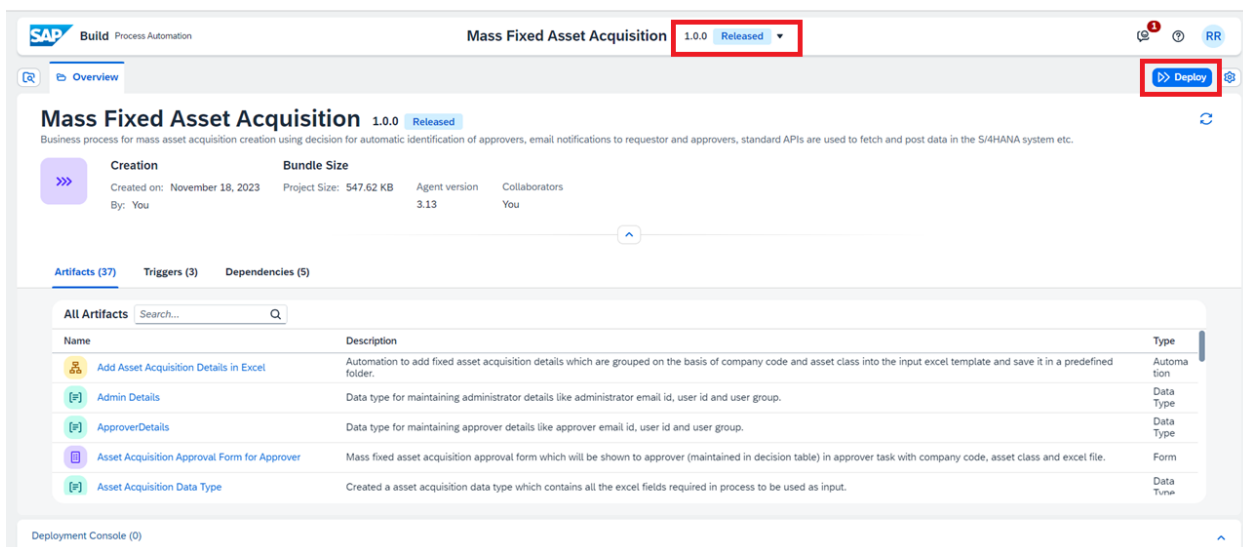


If this is the first time you've released the process, a version labelled 1.0.0 is released. For subsequent releases, you're prompted to select a version type before the process is released.

Deploy – This takes a released version of a process and enables it to be actively run and monitored. A deployed version of this approval process unlocks the request form, allowing participants to submit requests and the approvers to view items in their inbox.

To deploy a released version of your process,

- First ensure that the status is listed as 'Released'.
- Then click "Deploy"



To deploy your project, you will be prompted to provide a Destination as an environment variable. Select the destination from the drop-down.

1. **BaseFolderPath:** provide base folder path where all log reports and processed excel files will be stored.

2. **Destination:** Destination to connect to SAP S/4HANA System
3. **DMS_Destination:** Destination to connect to Document Management Service

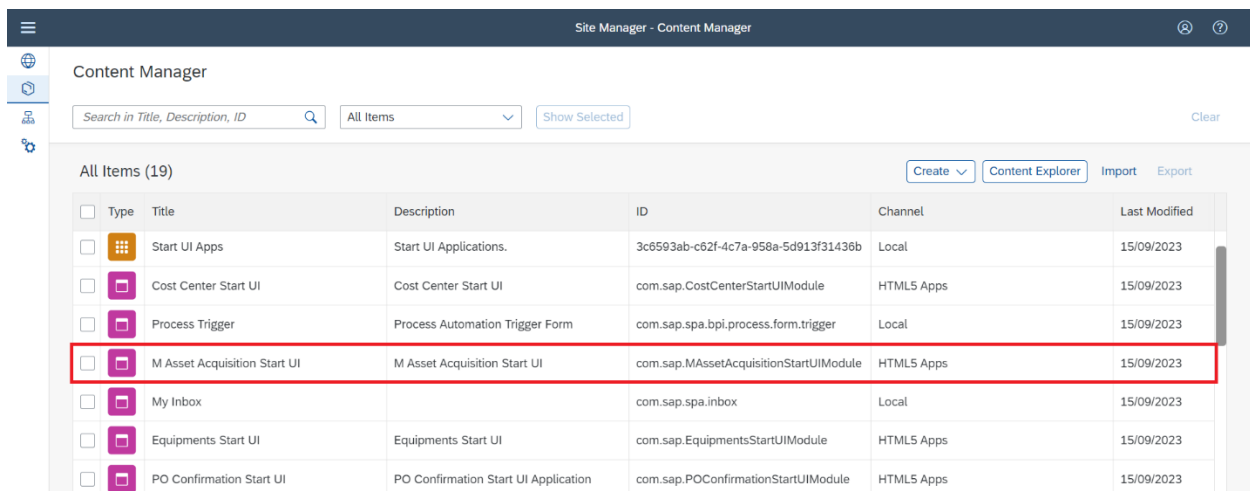
Note: If you do not map your destination environment variable with actual SAP BTP destination during deployment, then the process will enter Erroneous state when it tries to connect to the external system.

Configure SAP Build Work Zone

Configure SAP Build Work Zone to access the start UI for this automation. Please refer help documentation [Configuring SAP Build Work Zone](#)

Once SAP Build Work zone is configured, perform the following steps to create the tile for the start UI:

1. Open Content Manager and click on the HTML5 Apps
2. Select the M Asset Acquisition Start UI from the list of apps and choose Add.



The screenshot shows the SAP Content Manager interface. At the top, there's a header 'Site Manager - Content Manager'. Below it, a search bar and filters are visible. The main area displays a table of 'All Items (19)'. The table has columns: Type, Title, Description, ID, Channel, and Last Modified. The 'M Asset Acquisition Start UI' is highlighted with a red box.

Type	Title	Description	ID	Channel	Last Modified
Start UI Apps	Start UI Applications.	Start UI Applications.	3c6593ab-c62f-4c7a-958a-5d913f31436b	Local	15/09/2023
Cost Center Start UI	Cost Center Start UI	Cost Center Start UI	com.sap.CostCenterStartUIModule	HTML5 Apps	15/09/2023
Process Trigger	Process Automation Trigger Form	Process Automation Trigger Form	com.sap.spa.bpi.process.form.trigger	Local	15/09/2023
M Asset Acquisition Start UI	M Asset Acquisition Start UI	M Asset Acquisition Start UI	com.sap.MAssetAcquisitionStartUIModule	HTML5 Apps	15/09/2023
My Inbox			com.sap.spa.inbox	Local	15/09/2023
Equipments Start UI	Equipments Start UI	Equipments Start UI	com.sap.EquipmentsStartUIModule	HTML5 Apps	15/09/2023
PO Confirmation Start UI	PO Confirmation Start UI Application	PO Confirmation Start UI Application	com.sap.POConfirmationStartUIModule	HTML5 Apps	15/09/2023

3. Add the relevant roles to the user. The M Asset Acquisition application start UI will be available to the user as a tile in the launchpad.

SAP Business Application Studio for SAP UI5 Application

Import and deploy SAPUI5 application:

Following steps can be followed to utilize the SAP UI5 application provided with this process package:

- Download the SAPUI5 application file from the imported store project, it will available under the file section in the package.
- Open Business Application Studio and import the previously downloaded SAPUI5 project.
- Ensure that you have already created the SBPA instance and the same instance details need to be updated in the mta.yaml file available in the SAP UI5 application project.

- Update your process definition id (Package needs to be deployed) in the Property.json file (property: readDefinitionId, uploadDefinitionId) as shown in the following snippets (definition id only needs to be updated in start UI application).
- **readDefinitionId** process will be used to read and download the data.
- **uploadDefinitionId** process will be used for approval process.

```

1  {
2    "downloadButtonSelected": true,
3    "uploadButtonSelected": false,
4    "attachmentFlag": false,
5    "uploadInvisibleFlag": false,
6    "sendEmailTo": "",
7    "saveToFolder": "C:\\",
8    "userEmailId": "",
9    "url": "",
10   "readDefinitionId": "eu10.store-content-dev-acc.massfixedassetacquisition2.processToGetFixedAssetAcquisitionDetails",
11   "uploadDefinitionId": "eu10.store-content-dev-acc.massfixedassetacquisition2.processToUploadTheFixedAssetAcquisition",
12   "companyCodeAPI": {
13     "service": "API_COMPANYCODE_SRV",
14     "entityset": "A_CompanyCode"
15   },
16   "assetClassAPI": {
17     "service": "YY1_AssetClass_CDS",
18     "entityset": "YY1_AssetClass"
19   },
20   "assetNumberAPI": {
21     "service": "YY1_MasterFixedAsset_CDS",
22     "entityset": "YY1_MasterFixedAsset"
23   },
24   "assetSubNumberAPI": {
25     "service": "YY1_FixedAsset_CDS",
26     "entityset": "YY1_FixedAsset"
27   }
28 }

```

- Build SAPUI5 project using mta.yaml file & the generated project (generated mtar file will be available in the mta_archives folder) file can be deployed.
- After successful deployment of the project, it can be accessed using through SAP standard work zone & user can provide the required asset acquisition details & submit the form for the approval & posting.

User Guide

Capabilities

The following are the capabilities of this template:

Icon	Type	Name	Description
	Automation	Add Asset Acquisition Details in Excel	Automation to add fixed asset acquisition details which are grouped on the basis of company code and asset class into the input excel template and save it in a predefined folder.
	Automation	Combined Automation for Read Excel and Post Data	Combined automation for read excel after approval process and post the data to create mass asset acquisition in system and generate log report

	Automation	Create Excel and Upload in DMS	Automation to create fixed asset acquisition input excel by adding grouped company code and asset class details in fixed asset input excel template and call the automation to upload the excel in document management service which is displayed in asset acquisition approval form to help the approver to review the fixed asset acquisition details.
	Automation	Create Folder	Automation to create a new folder only if the folder doesn't already exist in the base folder path provided by user.
	Automation	Create Folder in DMS	Automation to create folder in document management service to store the excel file
	Automation	Create Log Report for Download Operation	Generates log report which indicates how many records being fetched from api after getting data from api and put it in excel sheet
	Automation	Delete item from DMS	Automation to delete item from document management service using object id
	Automation	Download DMS Document	Automation to download excel from document management service and fill the data coming from get api into the excel.
	Automation	Folders Deletion in DMS	Automation to delete file folder from document management service after the processing using folder object id
	Automation	Generated Excel File After Download Operation	Automation to fill data of fixed asset from download operation into Excel template file and save as new filename.
	Automation	Generating Log file for Upload Operation	Automation to generate log report for fixed asset acquisition upload operation which will show how many records are success or failed and give the detailed information regarding each and every record
	Automation	Get Fixed Asset Acquisition Detail	Automation to get fixed asset acquisition details using get api and prepare a log report and send it to user through email
	Automation	Get folder content	Automation to get folder content like object id, object name, object type from document management service
	Automation	Move Files from ToBeProcessed Folder to Processed Folder	Automation to move input excel template from to be processed folder to processed folder.
	Automation	On Rejected Task Send Email to Requestor	Automation to send task rejected email to user with attachment if approver rejects the task.
	Automation	Prepare Payload and Post the data	Automation to prepare payload using excel data and post the data to create fixed asset acquisitions after approval

	Automation	Process Input Excel Document from DMS	Automation to download and read document from document management service and grouped the data based on company code and asset class and call fixed asset acquisition approval process
	Automation	Read the Excel and Get Data	Automation to read the excel file after approval and get the data from the excel sheet
	Automation	Remove Folder content in DMS	Automation is to remove the folder content and folder details in document management service after the approval process.
	Automation	Sending Email with Input Template and Log Report for Download Operation	Automation to send generated excel file with data after download operation to the user with log report
	Automation	Upload DMS Document	Automation to upload excel with data in document management service which is being used to show in approver task as attachment
	Process	Fixed Asset Acquisition Approval Process	Process to send approval request to approver using form and post the data into SAP S/4HANA system after approver approves the task and send email to requestor if task is rejected
	Process	Process to Get Fixed Asset Acquisition Details	Process to call automation to get asset acquisition details and create log report for complete data and send email to requestor with log report
	Process	Process to Upload the Fixed Asset Acquisition	Initial process to trigger automation to post the mass asset acquisition details in SAP S/4HANA
	Form	Asset Acquisition Approval Form for Approver	Mass fixed asset acquisition approval form which will be shown to approver (maintained in decision table) in approver task with company code, asset class and excel file.
	Decisions	Determine Admin	Decision to determine process administrator who will assign approvers when no approver is maintained in determine approver decision.
	Decisions	Determine Approval Needed	Decision to determine whether approval process is needed or not for the fixed asset acquisition.
	Decisions	Determine Approver	Created determine Approver decision to get the approver email id based on company code and asset class
	Data type	Admin Details	Data type for maintaining administrator details like administrator email id, user id and user group.
	Data type	Approver Details	Data type for maintaining approver details like approver email id, user id and user group.

	Data type	Asset Acquisition Data Type	Created a asset acquisition data type which contains all the excel fields required in process to be used as input.
	Data type	Asset Acquisition Grouping fields	Created a data type (asset acquisition grouping fields) which is having company code and asset class grouping fields to use it in process
	Data type	DMS Objects	Data type used to store objectid, name and objecttype for document management service file and folders
	Data type	Document Folder Path	Data type to store document folder path which will be used in processes to pass the file from one artifact to another artifact
	Data type	ReadScreenData	Created a data type for download operation to get the fields like url, requestor email id, save to folder from download ui
	Data type	UploadScreenData	Create a data type to store the user email id, file object id, file name which is coming from upload operation ui and use it in the process
	File	MassAssetAcquisitionTemplate	Standard input template used in mass fixed asset acquisition scenario

Actions

Get Fixed Asset Acquisition:

This action is responsible to read the fixed asset acquisition details for the given filter query.

Fixed Asset – Post Asset Acquisition:

This action is responsible to create the fixed asset acquisition details for the provided data in the payload.

Automation

Get Fixed Asset Acquisition Details:

Automation to get fixed asset acquisition details using get api and prepare a log report and send it to user through email.

API	API Path	Purpose
YY1_FixedAsset_CD S	/sap/opu/odata/sap/YY1_FixedAsset_CDS/YY1_FixedAsset?\$format=json&\$select=CompanyCode,AssetClass,MasterFixedAsset,FixedAsset&\$filter=(CompanyCode eq '1010') and (AssetClass eq '1200')&\$format=json	Get the Fixed Asset Acquisition data based on the selection criteria

Create Excel and Upload in DMS:

Automation to create fixed asset acquisition input excel by adding grouped company code and asset class details in fixed asset input excel template and call the automation to upload the excel in document management service which is displayed in asset acquisition approval form to help the approver to review the fixed asset acquisition details.

Combined Automation for Read Excel and Post Data:

This Automation will read the excel file by automation "Read the Excel and Get Data" and post the data to SAP S/4HANA and it will generate the log file for the posted data by executing the automation "Prepare Payload and Post the data".

API	API Path	Purpose
API_FIXEDASSETACQUISITION	/sap/opu/odata4/sap/api_fixedassetacquisition/srvd_a2x/sap/fixedassetacquisition/0001/FixedAssetAcquisition/SAP__self.Post'	POST API to Create the maintenance orders

Create Log Report for Download Operation:

Generates log report which indicates how many records being fetched from api after getting data from api and put it in excel sheet.

Generated Excel File After Download Operation:

Automation to fill data of fixed asset from download operation into Excel template file and save as new filename.

Generating Log file for Upload Operation:

Automation to generate log report for fixed asset acquisition upload operation which will show how many records are success or failed and give the detailed information regarding each record.

On Rejected Task Send Email to Requestor:

Automation to send task rejected email to user with attachment if approver rejects the task.

Sending Email with Input Template and Log Report for Download Operation:

Automation to send generated excel file with data after download operation to the user with log report.

Process

Fixed Asset Requisition Approval Process:

This process will notify the approver to approve the Fixed Asset Acquisition Request with the Approval Process Form and Automate the Log Files when it's approved else it will send the reject email notification to the requestor.

Process to Upload the Fixed Asset Acquisition:

The process "Process to upload the Mass Fixed Asset Acquisitions" will trigger via UI. This process will call the "Process input excel document from DMS" Automation to read data from SAP Document Management Service.

Process to Get Fixed Asset Acquisition Details:

In Start UI whenever User triggers the Fixed Asset Acquisition request after filling Selection Criteria, this Process will be triggered to get all the Fixed Asset Acquisition that matches based on the selection criteria.

Forms

Asset Acquisition Approval Form for Approver:

Mass fixed asset acquisition approval form which will be shown to approver (maintained in decision table) in approver task with company code, asset class and excel file to approve the task.

The screenshot displays the 'Asset Acquisition Approval Form for Approver' within the SAP S/4HANA interface. The form is titled 'Review and approve fixed asset acquisition' and includes instructions: 'Download the attached excel to review the request to post the fixed asset acquisitions in SAP S/4HANA. Approve or reject the request with appropriate comments.' The form contains three main sections: 'Company Code' with a 'Prepopulated Field' and a 'T' icon; 'Asset Class' with a 'Prepopulated Field' and a 'T' icon; and 'Fixed Asset Acquisition Details' with an 'Uploaded File(s)' section. Below these is a 'Comments' section with a text area and a '+ Drag any field or click to add here' prompt. At the bottom right, there are 'Approve' and 'Reject' buttons. A sidebar on the left shows a list of icons, and a top bar includes 'Overview', 'Asset Acquisition Approval...', 'Release', and 'Save' buttons.

User Interface

Start UI

Users can select from F4 Value Help or can enter data manually for filter criteria then click “Download” button to trigger Process to Get Fixed Asset Acquisition Details and get the data from SAP S/4HANA System and download the excel file.

The screenshot shows the SAP Mass Asset Acquisition interface. At the top, there is a navigation bar with the SAP logo and the title 'Mass Asset Acquisition'. On the right, there is a search icon and a user profile icon labeled 'HS'. Below the navigation bar, there is a section for 'Request Type' with two radio buttons: 'Download' (selected) and 'Upload'. Below this, there is a form with several input fields: 'Company Code' (with a red asterisk and a copy icon), 'Asset Class', 'Asset Number', 'Asset SubNumber', 'Send Email To' (with a red asterisk), and 'Save To Folder' (with a red asterisk). At the bottom right of the form, there are two buttons: 'Download' and 'Cancel'.

Choose “Upload” Request Type and upload the Fixed Asset Input Template and click “Submit” button. It will trigger Process to Upload the Fixed Asset Acquisition.

Note: Multiple files upload is not supported.

The screenshot shows the same SAP Mass Asset Acquisition interface, but with the 'Upload' radio button selected under 'Request Type'. The form fields are the same as in the previous screenshot. Below the form, there is a section titled 'Attachments (0)' with an 'Upload' button on the right. In the center of this section, there is a large document icon and the text 'No files found.' Below this text, it says 'Drop files to upload, or use the "Upload" button.' At the bottom right of the form, there are two buttons: 'Submit' and 'Cancel'.

Support

There is no support available for template content. If you experience general issues with SAP Build Process Automation, raise an incident via SAP Support Portal on **BPI-PA-BPC** component.

This template can be modified using SAP Process Automation. For example: add business rules to determine the approver based on a certain business logic or add an action to post collected information to backend SAP system. Refer [Help Portal](#) for more details.

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