



PUBLIC

SAP Build Process Automation **Product Master Data Management**

Configuration & User Guide

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Change Log

Version	Date	Description
1.0.0	December 29 th , 2023	Document created

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

1. Overview: In this section, you will get a quick overview of the use case, what are high-level components used and how the template works in a nutshell. Prerequisite section provides information of different services of SAP Business Technology Platform that are required to use this template.
2. Configuration Guide: It contains sections which will guide you to setup your
 - (a) SAP Business Technology Platform (BTP) Account with destination.
 - (b) Import and configure the template using SAP Build Process Automation design studio.
3. User Guide: This section provides details about different artifacts that are used in this template like process definition, automations, forms, email notifications etc. to better understand how different capabilities are used in this template.

Note:

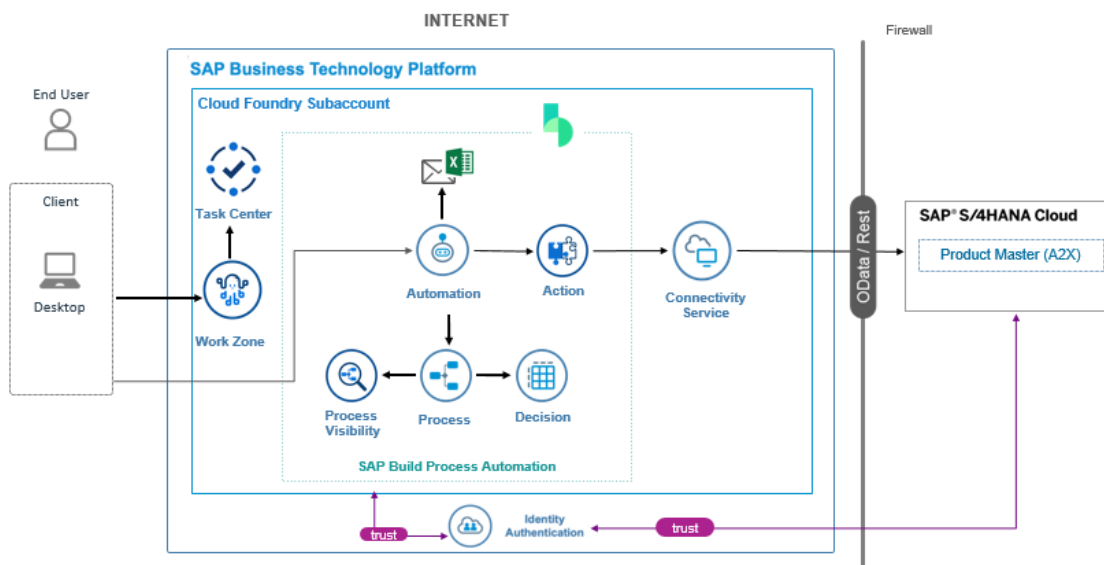
- This documentation is not a detailed guide to set up SAP Business Technology Platform services. It assumes that the IT admin who is setting the content is skilled with the SAP Business Technology Platform environment. The Configuration section must be mandatorily followed to import and configure the 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, SAP Integration Suite, and its capabilities.

Overview

The "**Product Master Data Management**" process streamlines and automates the process of creating, updating, and marking for deletion of product master data through SAP Build Process Automation within the SAP S/4HANA system.

It does so by downloading excel attachments from outlook, extracting the necessary data from the file and utilizing relevant APIs to create, update and mark for deletion of product master data using the details provided in the input excel. This end-to-end process not only reduces manual data entry and processing but also enhances the speed and efficiency of managing the product master data.

Solution Diagram:



The following steps are included as a part of Creating or Updating the Product Master Data:

- The template uses below API calls:
 - **Product Master(A2X) API**
 - **Post Method: /A_Product**
This API is used to create the product master data in the SAP S/4HANA system.
 - **Get Method: /A_Product({Product})**
This API is used to get the product master data of a product in the SAP S/4HANA system.
 - **PATCH Method: /A_Product({Product})**
This API is used to update the product master data in the SAP S/4HANA system. This is also used to mark the product master data for deletion in the SAP S/4HANA system.
More information can be found in [API PRODUCT_SRV/overview](#)
- **Start Process:** “Manage Product Master Data” automation will be scheduled to run the process automatically in unattended mode, no actions required from the end user to start the process.
- **Read operation:** “Manage Product Master Data” automation downloads the excel attachments from outlook inbox with the subject “Manage Product Master Data” into a predefined folder, then read values of worksheets from excel to get the details for create, and update, and mark for deletion.
- **Reminder Notification:** Email notification is sent to the respective stakeholder for review and approval.
- **Mail Task (Create/Update/Mark for Deletion):**
 - A Product Master Data approval request task is generated and sent to the designated approver’s SAP Build Process Automation Inbox.
 - The designated approver reviews the product master data request.
 - The approver has the option to either approve or reject the request.
- Based on the approver’s decision, corresponding action is triggered.
 - If “**Approve**” is chosen, based on the request create/update/mark for deletion of product master data will be performed and posted in the SAP S/4HANA system.
 - If “**Reject**” is chosen, bot will send the rejection notification with the approver's message to respective stakeholders.
- Email Notification will be sent to requestor/stakeholder in the following cases:
 - Successful mail - For creation/updating/mark for deletion of product master data will be shared to the respective stakeholder.
 - Rejection mail - notification email will be shared to stakeholder with comments.
 - Error mail - If errors occurred during the process execution.

This structured process ensures that the process moves through an efficient and automated workflow. This reduces human errors, increases the data consistencies with overall efficiency and throughput of the SAP S/4HANA Product Master data creating and managing process.

Prerequisites

The following SAP Business Technology Platform services are required to consume the content package of “**Product Master Data Management**”:

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

Other Prerequisites

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

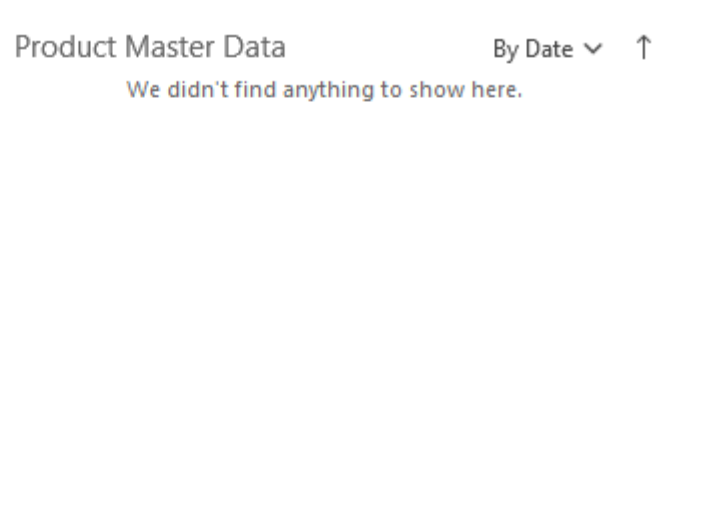
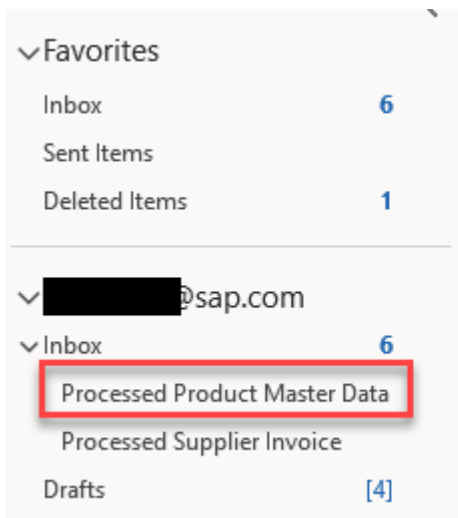
- SAP Desktop Agent 3.22.45 or higher
- Outlook mailbox configured on the system where the automations will run to read mails with attachments.

Note:

- This package is designed only to work with the provided input template file structures. **DO NOT CHANGE** any column properties and structure.
- If any changes are made in the input template structure, related process & automation implementation also need to be updated to manage those changes.

Product	ProductType	CrossPlantStatusValidityDate	crossPlantStatus	CreationDate	CreatedByUser	LastChangeDate	LastChangedByUser	LastChangeDateTime	IsMarkedForDeletion	ProductOldID	GrossWeight
String	String	Date	Text	Date	String	Date	String	Date	String(True/False)	String	String
Mandatory	Mandatory	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Mandatory	Optional	Mandatory
Input Data	Input Data	Input Data	Input Data	Input Data	Input Data	Input Data	Input Data	Input Data	Input Data	Input Data	Input Data

- The process will download a predefined Input excel file from the outlook inbox.
- You can decide the folder where the downloaded input excel file should be saved and configure the same in the process.
- Create a folder in the outlook inbox named **“Processed Product Master Data”**. The processed mails will be moved to this folder once input excel files are downloaded.



Process Flow

1) Scheduled Automation Trigger

The automation is scheduled to automatically run without human intervention. This ensures that it consistently checks emails and downloads the excel that contains product details to create, update, and mark the product master data for deletion.

2) Fetch Product Data

This automation searches outlook emails with subject "Manage Product Master Data" and saves the attached input excel file from the email to a specific folder. This excels file contains the requested details of product master data to process.

3) Iterating Through Request Data To Create/Update/Mark for Delete

For each record in the excel file having sheets for create, update, delete, the automation initiates another 3 sub-processes named "**Create Product Master Data**", "**Update Product Master Data**", "**Delete Product Master Data**" respectively which performs all the steps required to complete the creation, updating & marking for deletion of product master data.

a) Retrieve Product Master Data Details

- For the requested Input file, the '**Manage Product Master Data**' automation retrieves product master data details that will be used to create/update/mark for delete the product master data based on the input excel file.

b) Determine Approver

- Approver is determined using the decision table based on the product type. This information is essential for the next step.

c) Send Mail Notification

- Reminder mail notification will be sent to approver with the email address retrieved from the previous step.

d) Sending Approval Request Task to Approver

- A form named "**Approval Form - Create Product Master Data**" or "**Approval Form - Update Product Master Data**" or "**Approval Form - Mark Product Master Data For Deletion**" is sent to the determined approver.
- The form includes information about the Product Master Data that needs to be created, updated, or marked for deletion, allowing the approver to **Approve** or **Reject** the request.

e) Approver's decision

• Create Product Master Data

- If the approver decides to approve the request, the '**Create Product Master Data**' automation is executed to create a new product master data.
- If the approver decides to reject the request, a rejection email notification is sent to the approver/stakeholder and the process comes to an end.

• Update Product Master Data

- If the approver decides to approve the request, the '**Updating Product Master Data**' automation is executed to update the existing product master data.
- If the approver decides to reject the request, a rejection mail notification is sent to the approver/stakeholder and the process comes to an end.

• Delete Product Master Data

- If the approver decides to approve the request, the '**Delete Product Master Data**' is executed to mark the existing product master data as "Mark for deletion."
- If the approver decides to reject, a rejection email notification is sent to the approver/stakeholder and the process comes to an end.

f) Notification

- After the approver's decision the automation sends a confirmation notification email to the requestor.

g) Error Handling

- If any of these steps fail or encounter issues, the process sends an error email to the requestor.

4) Saving Processed Mails and Input file

- After downloading excel attachment from the emails, those emails will be moved to the inbox folder named "Processed Product Master Data" in the outlook.
- Downloaded excel document (Input file) will be saved in the local system under predefined folder.
- Once the input file(s) have been processed from the predefined folder, it is moved to the "Processed" folder which is in same predefined folder and is renamed to '<FileName_TimeStamp>'. Processed folder will be created if not present already.

Configuration Guide

Product Master Data Management requires SAP Build Process Automation subscription. Follow the [setup and configuration section](#).

Setup SAP Business Technology Platform Cockpit

Destination Configuration

Configure SAP S/4HANA Cloud, public edition Destination

To access the SAP S/4HANA system for read and update operations, an HTTP destination is required in the SAP BTP account where the SAP Build Process Automation is subscribed.

Create a destination with Basic Authentication. Make sure the communication user has the appropriate communication strategy to edit product master data assigned to it in the SAP S/4HANA system.

Destination with Basic Authentication

Name	< Product Master Data Management>
Type	HTTP
Proxy Type	Internet
Authentication	Basic Authentication
URL	<S/4HANA_Cloud_PRODUCT_SRV/_endpoint> Example: https://<host>:<port>/sap/opu/odata/sap/API_PRODUCT_SRV/
Username	<username> of the S/4HANA Communication User
Password	<Password> of the S/4HANA Communication User

Additional Properties to Destination

Additionally, add the following properties in the destination for cloud integration.

sap.applicationdevelopment.actions.enabled	true
sap.processautomation.enabled	true

Setup Communication

To run this template, you must have a communication user, create communication arrangements between the communication user and the following communication scenario, 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.](#)

Communication scenarios to be configured.

Communication Scenario	Related API
Product Master (A2X)	Overview Product Master Data SAP Business Accelerator Hub

Configure SAP Build Process Automation Email Destination

Mail notifications are used in this template to send notifications to notifiers at various stages of the process. Follow the instructions to set up mail destination in your SAP BTP Account.

Configuring destination, see [Configure a SMTP Mail Destination.](#)

For more information refer to [Create HTTP Destinations](#)

IMPORTANT NOTE: This template content is to accelerate your solution development. You can modify this template according to your own requirements to achieve your business goals. To use this template content, you need to have basic knowledge and understanding of SAP Build Process Automation and its capabilities.

Setup SAP Build Process Automation Content

Import Content

This template can be downloaded from the Store:

- 1) Navigate to the Store in your SAP Build Process Automation application.
- 2) Select the Project Type filter as **"Process Automation"**.
- 3) In the Search bar type **"Product Master Data Management"**
- 4) Select the **"Create from Template"** button to add the template into your lobby.

After successfully adding the template, navigate back to the lobby to find the **"Product Master Data Management"** project available for use.

Caution: Be sure to select the Project Type as "Process Automation" in the filters.

Configure Agent Management Settings

This configuration is required to execute the Process with Automation. Kindly follow the steps explained [here](#).

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.

Configure Process

Folder path needs to be configured to save the downloaded files from the outlook inbox in **Manage Product Master Data** automation.

To edit the automation:

1. Double click on the **Manage Product Master Data** automation.
2. Click on **step 7** in the flow named as **Store Folder Path**.
3. In the **Parameters** tab change the value to the desired folder path.
4. Click on **Save**.

The screenshot shows the SAP Studio interface for editing an automation. On the left, a flowchart lists steps 1 through 7. Step 7, 'Store Folder Path', is highlighted with a red box. On the right, the 'Create Variable' configuration window is open. The 'Step name' is 'Store Folder Path'. The 'Parameters' tab is selected. Under 'Input Parameters', the 'value' field is highlighted with a red box and contains the text: "C:\\Users\\ + Step6.userName + "\\Documents\\Product Master Data". The 'Output Parameters' section shows 'folderPath' as the output.

There is no configuration needed in the process if the outlook subject is maintained as **"Manage Product Master Data"** from where the attachments excel file needs to be downloaded, but it can be changed based on your requirement by making changes to the **Manage Product Master Data** automation.

To edit the automation:

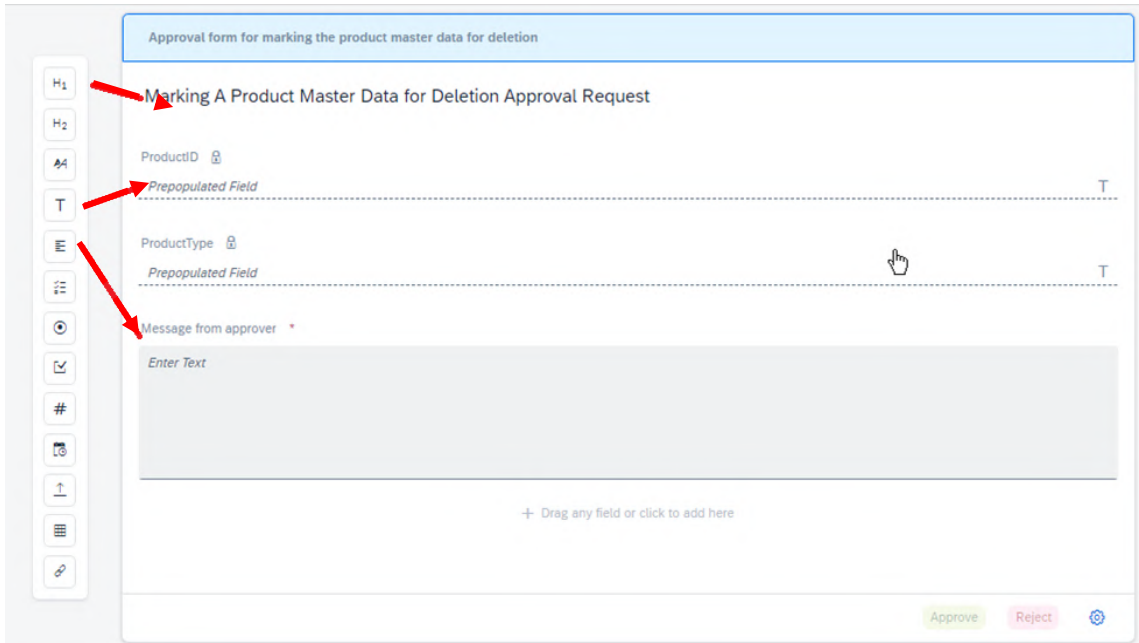
1. Double click on the **Manage Product Master Data** automation.
2. Click on step 9 in the flow named **Search Email (Outlook)**.
3. In the **Parameters** tab change the value to the desired subject line.
4. Click on **Save**.

The screenshot shows the SAP Studio interface for editing an automation. On the left, a flowchart lists steps 4 through 11. Step 9, 'Search Email (Outlook)', is highlighted with a red box. On the right, the 'Search Email (Outlook)' configuration window is open. The 'Step name' is 'Search Email (Outlook)'. The 'Parameters' tab is selected. Under 'Custom Data', the 'value' field is highlighted with a red box and contains the text: 'Manage Product Master Data'. The 'element' is set to 'subject' and the 'operand' is set to 'contains'.

Configure Forms

You can update or extend the forms based on your requirements. To edit the form:

- Double click the form to open the Form Editor
- You can configure existing fields, add new layout, or input fields to the form by simply dragging-and-dropping them from the side menu.



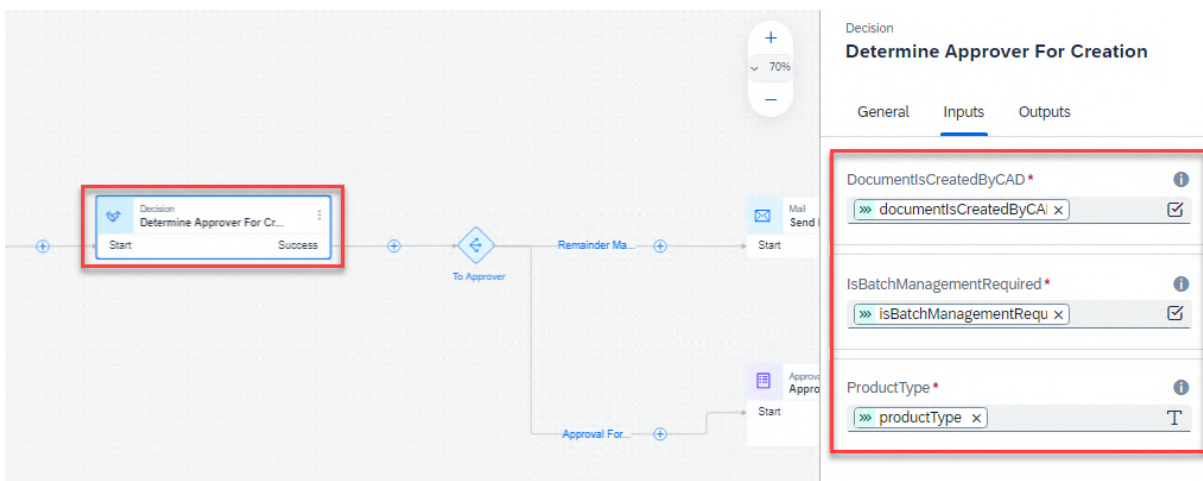
Configure Decision

Below are the decision artifacts in the process to determine the approver, admin email address to whom the approval task and notification mails are to be shared for creating, updating/marketing for deletion of Product Master Data.

1. Determine Approver For Creation
2. Determine Approver For Update and Delete
3. Determine Admin

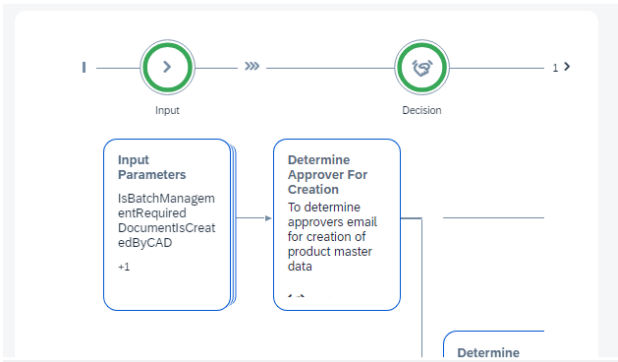
Decision must be modified for conditions and result values based on your business policies and requirements.

To modify the decision:



- In the process editor, double click to open the Decision.

Determine Approver For Creation



Determine Approver For Creation

Inputs/Output Rules Variables

Input Parameters

Name*	Description:*	Type*	List
IsBatchManagement...	IsBatchManagementRequired	Boolean	<input type="checkbox"/> <input type="checkbox"/>
DocumentsCreated...	DocumentsCreatedByCAD	Boolean	<input type="checkbox"/> <input type="checkbox"/>
ProductType	ProductType	String	<input type="checkbox"/> <input type="checkbox"/>

[Add Input Parameter](#)

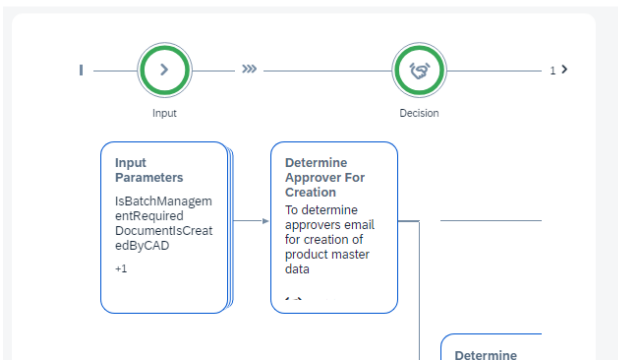
Output Parameter

Name*	Description:*	Type*	List
Approver Email	Approver Email	String	<input type="checkbox"/> <input type="checkbox"/>

[Add Output Parameter](#)

- Select the rule from the decision diagram.

Determine Approver For Creation



Determine Approver For Creation

Inputs/Output Rules Variables

Rules

Name	Type	Execution Order
<input type="checkbox"/> Determine Approver for ...	Decision Table	1

- Click on **Determine Approvers** and click on pencil icon to edit.
- The attributes used in the decision rule can be selected as per requirement.
- Edit the rule to add more rows or update existing values.

Edit Rule

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

Search vocabulary or it...

Input / Output

Approver Email

ProductType

IsBatchManagementRequired

DocumentsCreatedByCAD

Condition Attributes

ProductType

IsBatchManagementRequired

DocumentsCreatedByCAD

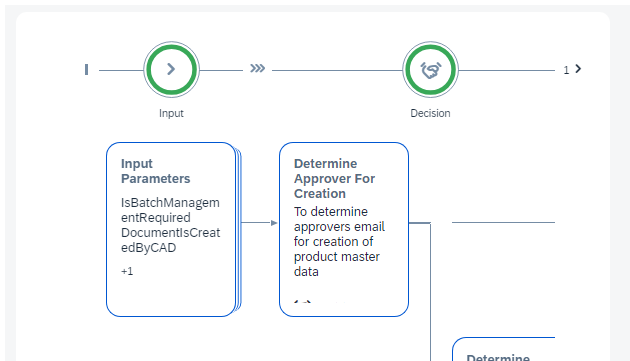
In the decision table, you will see the conditions as columns (left to right) in the order configured here (top to bottom).

[Previous Step](#) [Next Step](#) [Cancel](#)

- Add conditions to determine approver and assign approver email address/group.

- Click on Save.

Determine Approver For Creation



Determine Approver for Creation

General Information:
Status: Draft
Hit Policy: **FIRST MATCH**

Description:
A rule to determine the approver email to create the product master data

Decision Table	Add Row	Delete Row	Copy Row	Cut Row	...
If				Then	
<input type="checkbox"/> ProductType	IsBatchManagem...	DocumentsCreate...	Approver Email		
<input type="checkbox"/> = 'SERV'	= True	= True			
<input type="checkbox"/> = 'SERV'	= False	= False			

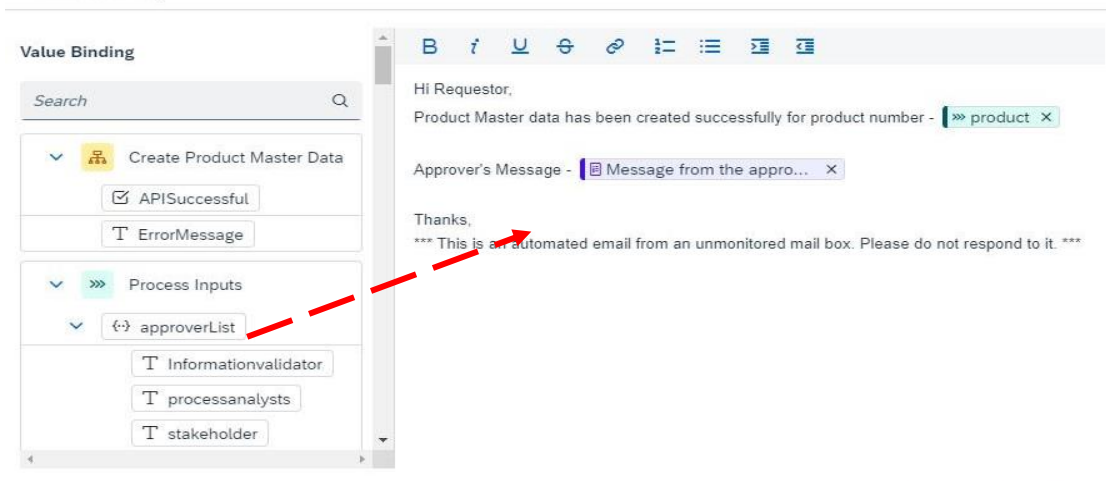
Configure Email

Email notifications are sent to stakeholders after task execution. All the email artifacts in the process have a default template body which can be changed.

To update the email body content, do the following:

- Select the mail artifact 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 on 'Open Mail Body Editor'.

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.



Configure Visibility Scenario

This configuration is required to track processes for Product Master Data Management that are submitted for creation, updation and deletion.

Below are the visibility scenarios configured in the process:

- Product Master Data Creation
- Product Master Data Update
- Product Master Data Delete

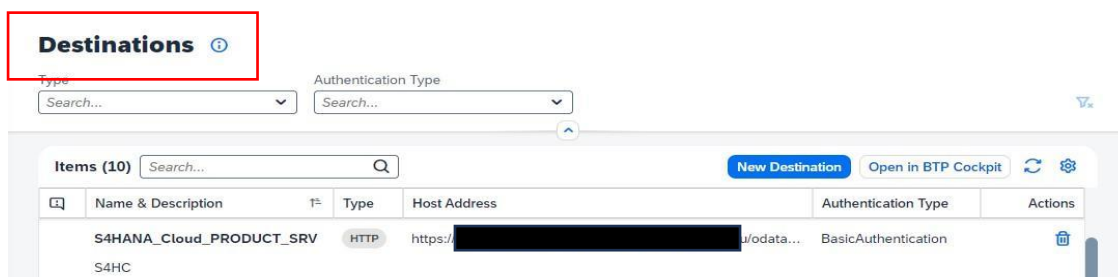
To modify the visibility scenario configuration, please follow the [tutorial link](#)

Configure Destination Settings

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

To configure destination:

- Click on **Control Tower**.
- Select **Destinations** from the right panel.
- Click **New Destination**
- Select the destinations to be added.



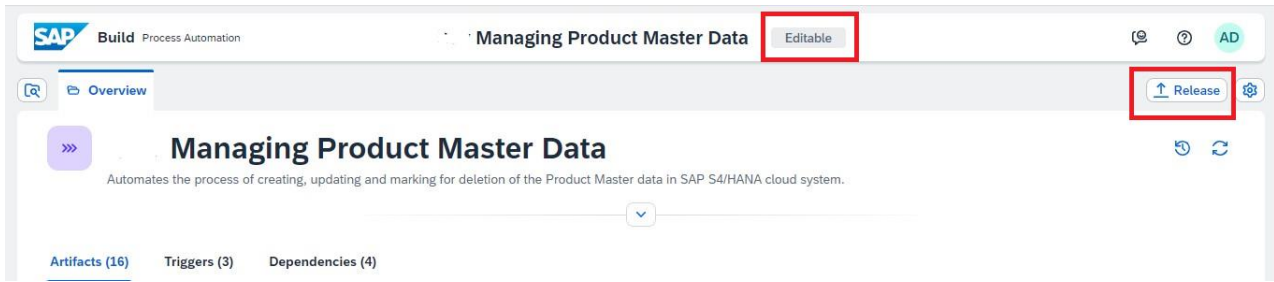
Release and Deploy Process

After configuring your process, it is time to publish, evaluate 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 cannot 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'**:

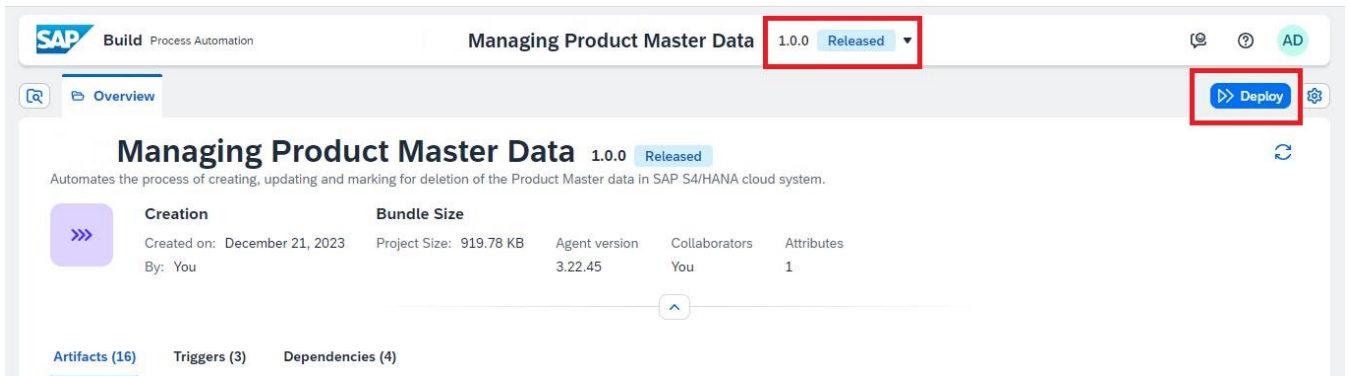


If this is the first time you have released the process, a version labeled 1.0.0 is released. For subsequent releases, you are prompted to select a version type before the process is released.

Deploy – This takes a released version of a process and enables it to be actively run and monitored. A deployed version of this process triggers automation, allowing to create/update/mark for deletion of the product master data and send out a successful email to stakeholders.

To deploy a released version of your process,

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



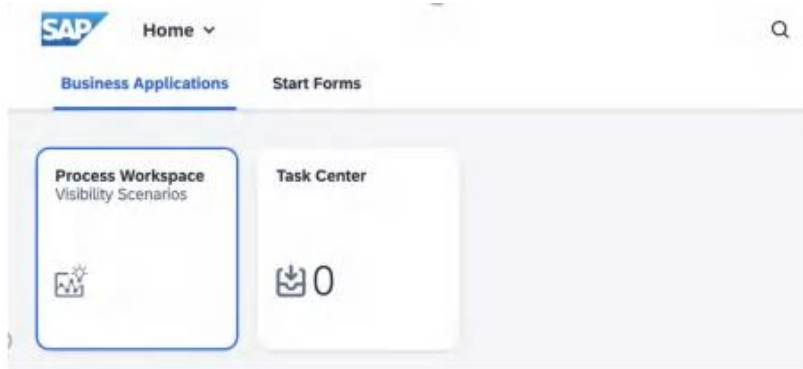
To deploy your project, you will be prompted to provide a destination as an environment variable. Select the destination from the drop-down.

Note: If you do not map your destination environment variable with the actual SAP BTP destination during deployment, then the process will enter an Erroneous state when it tries to connect to the external system. For more details about the Destination artifact, please read our [documentation](#).

Configure SAP Work Zone

Now that the process is released and deployed, you can configure SAP Work Zone standard or advanced edition to give access to your business users to track the process and business KPIs using process visibility workspace.

To configure SAP Work Zone standard edition - add Process Workspace and Task Center tile in SAP Work Zone to access the visibility dashboard. Follow the [tutorial](#) to configure Work Zone with visibility tiles.








User Guide

Capabilities

This template content contains the following key artifacts:
Please refer to [help documentation](#) about these different artifacts.

Icon	Type	Name	Description
	Process	Product Master Data Creation Process	Process to send requested product master data details for approval and create new product master data.
	Process	Product Master Data Update Process	Process to send requested product master data for approval and update the requested product master data.
	Process	Product Master Data Deletion Process	Process to send the requested data for approval and marking the product master data for deletion.
	Automation	Manage Product Master Data	Main Automation to retrieve the product details from excel which is downloaded from outlook. Excel has three worksheets: Create, Update, Delete and Notifier. Based on the data entries in respective sheets, an approval process is triggered. Notification is sent to notifier if the product master data record is successfully created, updated, and deleted or if there are any errors.
	Automation	Create Product Master Data	Automation to add new product master data record in backend system. If there are any errors during creation, it will return an error message with reasons for the failure
	Automation	Update Product Master Data	Automation to update existing product master data record in backend system. If there are any errors during updation, it will return an error message with reasons for the failure.

	Automation	Delete Product Master Data	Automation to enable mark-for-deletion flag in existing product master data record in backend system. If there are any error during marking. it will return an error message with reasons for the failure.
	Decision	Determine Approver For Creation	Decision to determine user(s) who will review and approve the new product master data requests based on product types.
	Decision	Determine Approver For Update and Delete	Decision to determine user(s) who will review and approve the product master data requests for updation or deletion, based on product types.
	Decision	Determine Admin	Decision to determine process administrator who will assign approvers when no approver is maintained in determine approver decision.
	Form	Approval Form - Create Product Master Data	Form that is sent to designated user(s) to review and approve creation of the new product master data
	Form	Approval Form - Update Product Master Data	Form that is sent to designated user(s) to review and approve changes in the existing product master data.
	Form	Approval Form - Mark Product Master Data For Deletion	Form that is sent to designated user(s) to review and confirm deletion of the existing product master data
	Mail	Error Notification	This notification email is sent to the requestor/stakeholder, if there were any issues during the execution of the process.
	Mail	Send Product master data Created Notification	This email is sent to the approver/stakeholder to confirm the successful creation of the new product master data and posted.
	Mail	Send Product Master data Updated Notification	This email is sent to the approver/stakeholder to confirm the successfully updating the product master data detail.
	Mail	Send Product Marked For Deletion Notification	This email is sent to the approver/stakeholder to confirm the successful marking of the product master data for deletion.
	Mail	Send Rejected Notification	This email is sent to the approver/stakeholder to confirm the rejection of creation, updating or mark for deletion of the product master data.
	Data type	Product (create)	Data type to store product master data for creation. It capture the entries from Create worksheet of MS Excel Template
	Data type	Product (delete)	Data type to store product information needed for deletion. It capture the entries from Delete worksheet of MS Excel Template

	Data type	Product (update)	Data type to store product information that is needed for update. It capture the entries from Update worksheet of MS Excel Template
	Data type	Approver	Data Type to store approvers details.
	Visibility Scenario	Product Master Data Creation	Visibility scenario to track processes for Product Master Data Management that are submitted for creation
	Visibility Scenario	Product Master Data Delete	Visibility scenario to track processes for Product Master Data Management that are submitted for deletion flag
	Visibility Scenario	Product Master Data Update	Visibility scenario to track processes for Product Master Data Management that are submitted for updation

Forms

The approval request form seeks approval, providing details about product master data. The approver must take a decision based on the details provided in the form by giving comments for their action.


There are 3 Approval forms for creation, updating and marking for deletion in the process.

- Approval Form - Create Product Master Data:


Approval - Create Product Master Data

Creation Of Product Master Data - Approval Request


Below are the details of Product master data for creation. Kindly review and the select required acti...

Product Number 


Prepopulated Field T

Product Type 


Prepopulated Field T

Item Category Group 


Prepopulated Field T

Product Description 

Prepopulated Field T

Product Language Key 

Prepopulated Field T

Base Unit 

Prepopulated Field T

Comment from the approver *

Enter Text

+ Drag any field or click to add here

Approve Reject ⚙

- Approval Form - Update Product Master Data

Approval - Update Product Master Data

Updating A Product Master Data - Approval Request

Below are the details of Product master data. Kindly review and the select required action with a comment.

Product Number	T
<i>Prepopulated Field</i>	
<hr style="border-top: 1px dashed #ccc;"/>	
Product Type	T
<i>Prepopulated Field</i>	
<hr style="border-top: 1px dashed #ccc;"/>	
Product Group	T
<i>Prepopulated Field</i>	
<hr style="border-top: 1px dashed #ccc;"/>	
Item Category Group	T
<i>Prepopulated Field</i>	
<hr style="border-top: 1px dashed #ccc;"/>	
Product Old ID	T
<i>Prepopulated Field</i>	
<hr style="border-top: 1px dashed #ccc;"/>	
Base Unit	T
<i>Prepopulated Field</i>	
<hr style="border-top: 1px dashed #ccc;"/>	

Comment from the approver on update the master data *

Enter Text

+ Drag any field or click to add here

Approve
Reject
⚙️

- Approval Form - Mark Product Master Data For Deletion

Approval - Mark Product Master Data For Deletion

Marking A Product Master Data for Deletion - Approval Request

Below are the details of Product master data. Kindly review and the select required action with a co...

Product ID	T
<i>Prepopulated Field</i>	
<hr style="border-top: 1px dashed #ccc;"/>	
Product Type	T
<i>Prepopulated Field</i>	

Comment from approver *

Enter Text

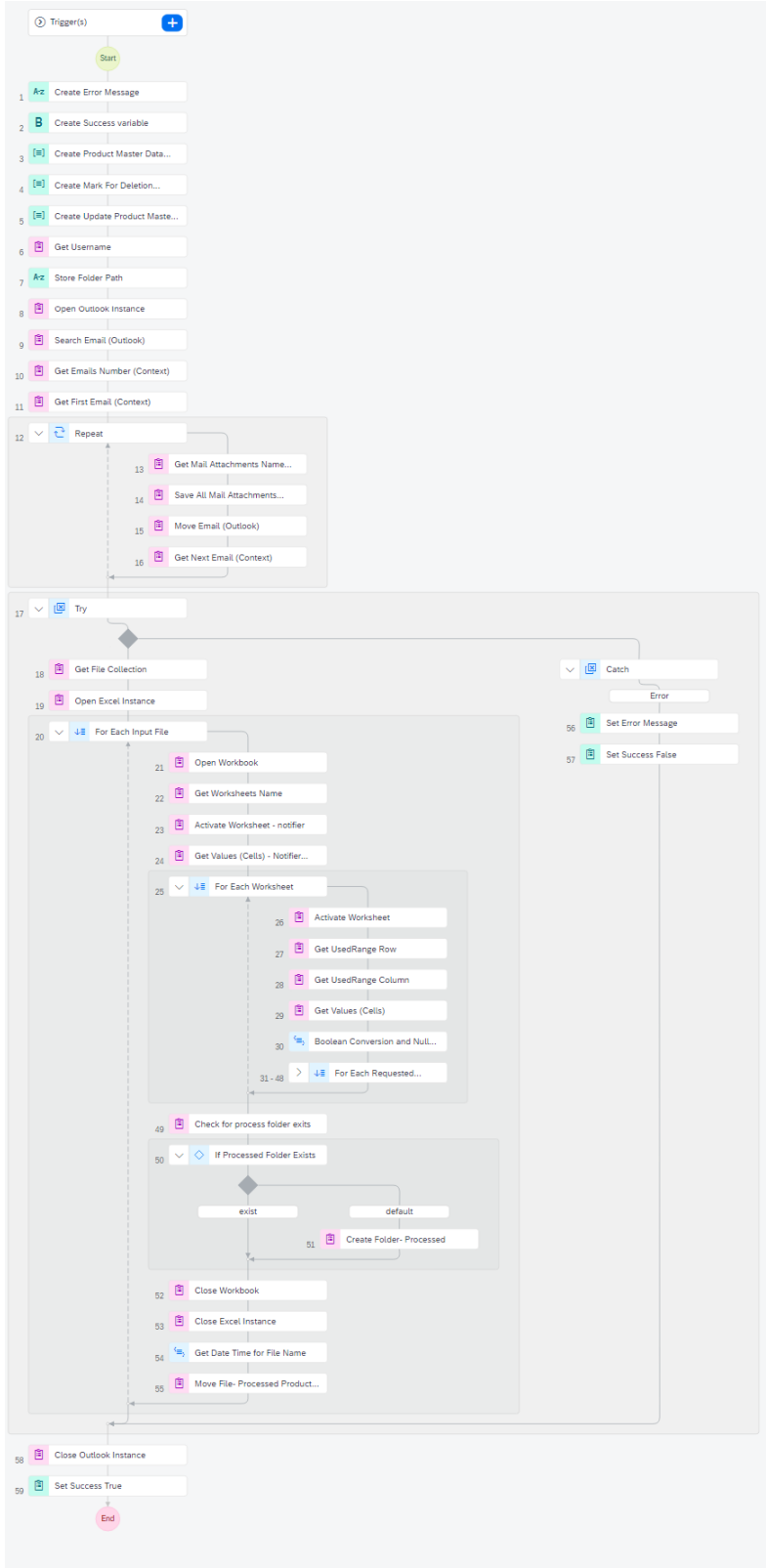
+ Drag any field or click to add here

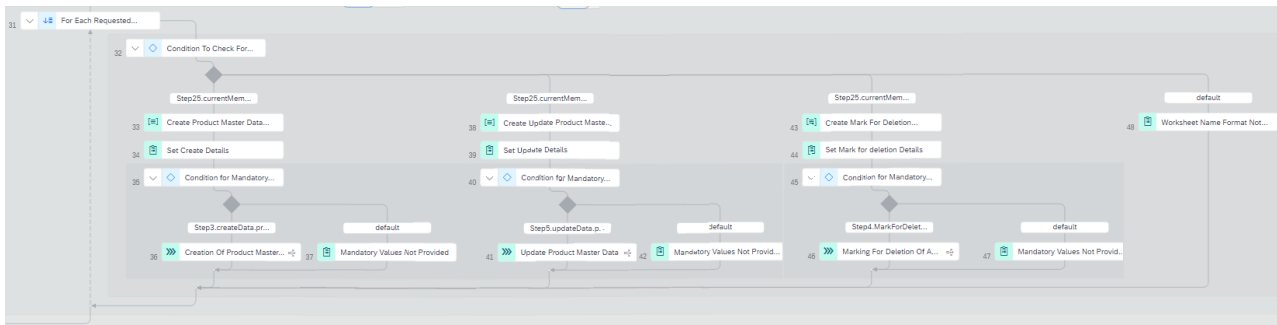
Approve
Reject
⚙️

Automations

Manage Product Master Data

Main automation to download input excel file attachment from Outlook inbox and iterate through each request data in the excel file to create/update/mark for deletion of product master data.





Step 1 to Step 2: Create variables for error log and Success log.

Step 3 to Step 6: Create data type variables of create, update and mark for deletion to assign values from the input excel file.

Step 7: Stores folder path.

Step 8 to Step 16: Bot opens outlook, downloads, and saves excel attachment from outlook Inbox with subject mentioned as **“Manage Product Master Data”** into predefined folder structure. Moves the processed email to the folder in the outlook from inbox to **“Processed Product Master Data”** folder.

Step 17 to Step 24: Get each file from the folder. Open excel file and read each product master data records and notifier email address.

Step 25 to Step 48: Checks for each worksheet for the data to create/update/mark for deletion of the product master data and stores the values in the appropriate data type, based on the condition of mandatory values check for the product master data details, the sub process for creation/updating/mark for deletion is called with the provided input data.

Step 49: Check if the folder named “Processed” exists in the folder path where the files are stored. If not, create the folder named Processed in the folder.

Step 50 to 51: Check for the folder exist are not, if not create folder called Processed

Step 52: Close workbook

Step 53: Close the excel instance.

Step 54: Get time to name the file.

Step 55: Move the file to the processed folder appending the time to the file name.

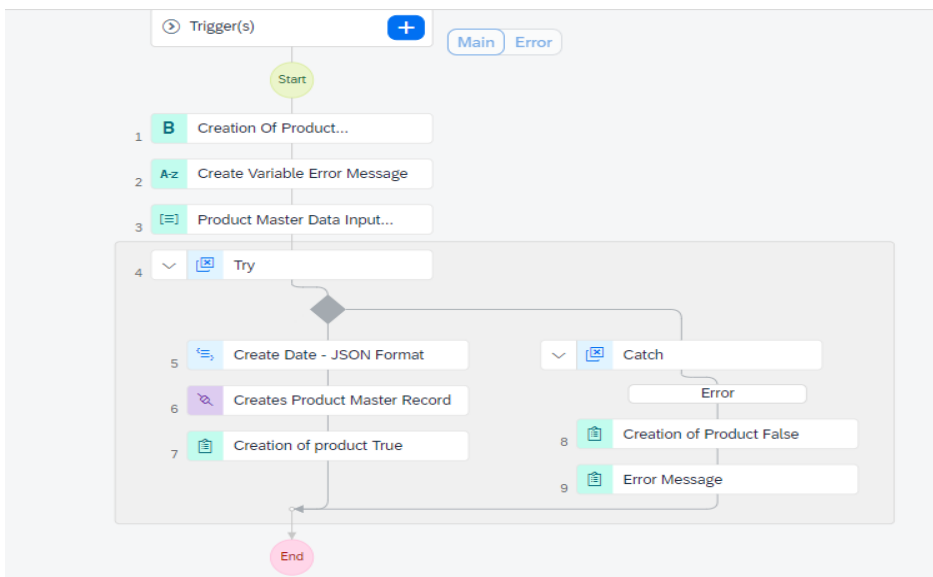
Step 56 to Step 57: Sets error log if anything fails during the execution of the process.

Step 58: Close the outlook instance.

Step 59: Sets success log.

Create Product Master Data

This sub automation is to create product master data details using the request provided through input excel file in the SAP S/4HANA system.



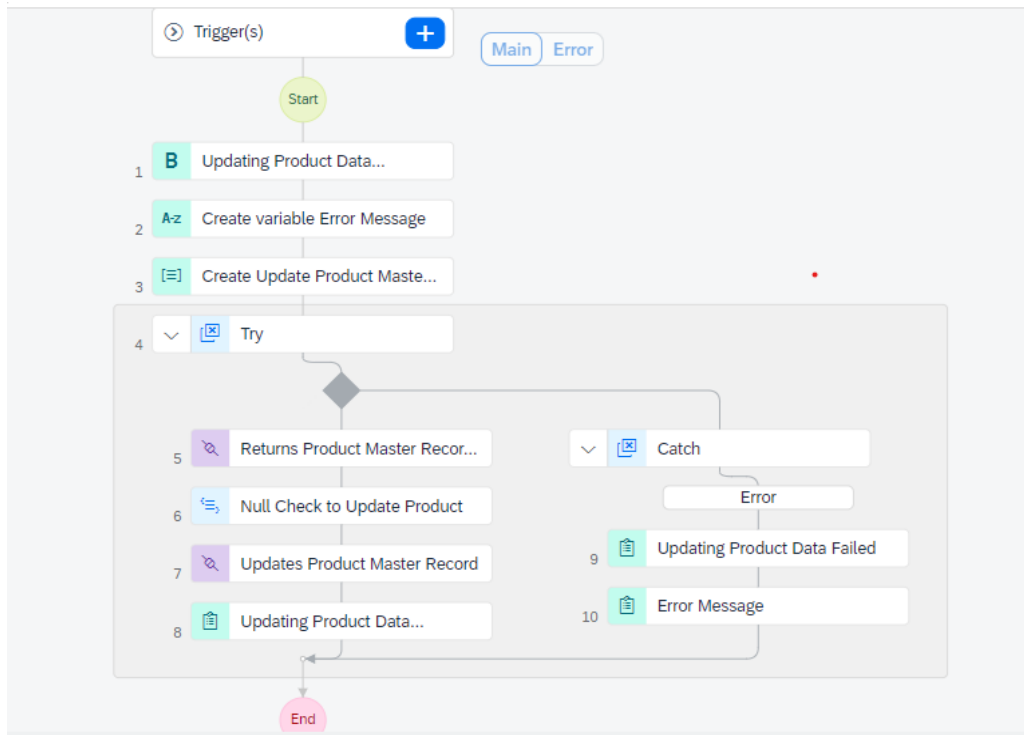
Step 1 to Step 3: Creating data type variables for product master data details, creation of product successful and error message.

Step 5 to Step 7: Creates the product master data details by calling the API with input parameters sourced from the input excel file.

Step 8 to Step 9: Sets the error log, if any errors are found while calling an API.

Update Product Master Data

This sub automation is to update product master data details using the request provided through the input excel file in the SAP S/4HANA system.



Step 1 to Step 3: Creating data type variable for product master data details, Updating the product successful and error message.

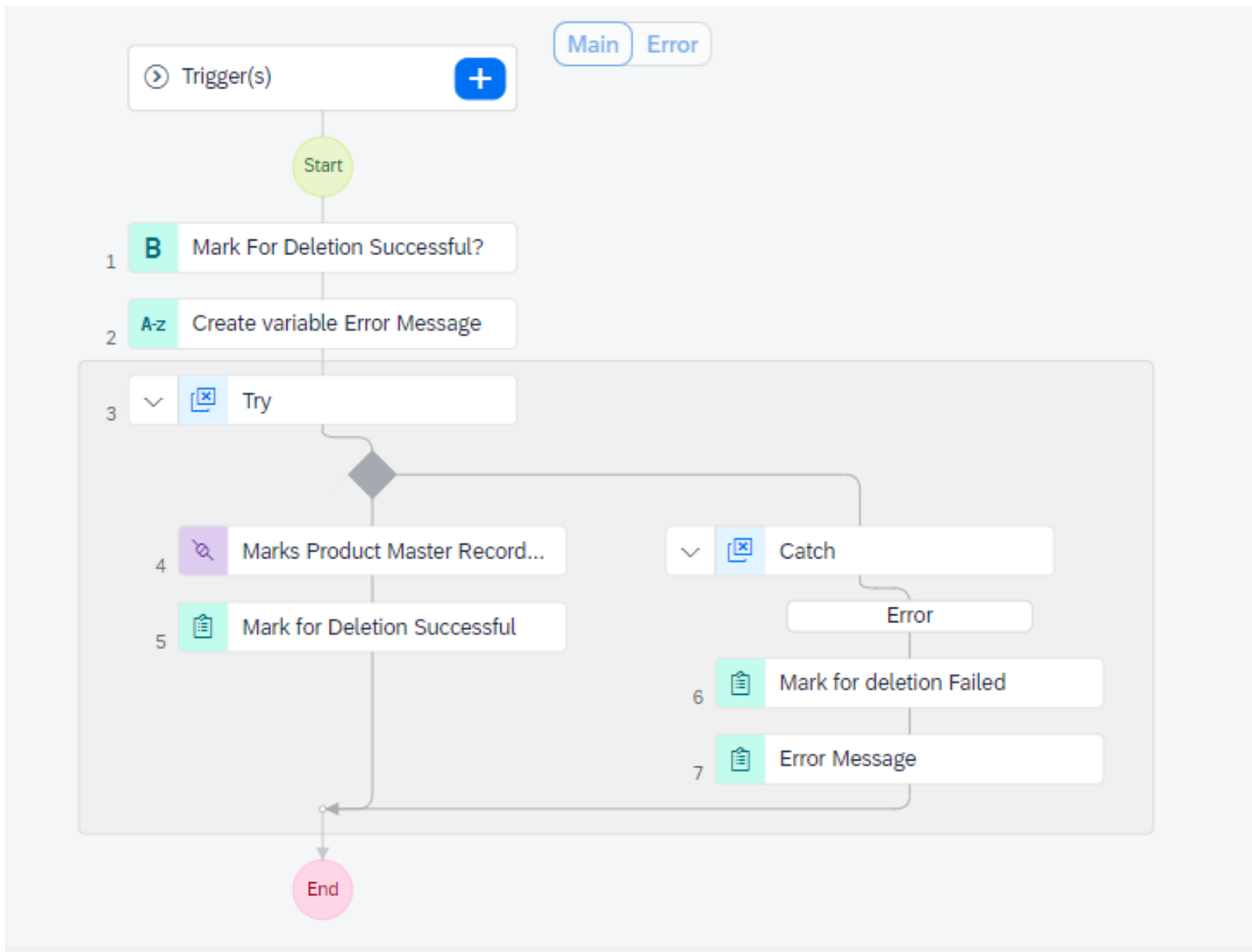
Step 5 to Step 6: Fetch the data of a product from the SAP S/4HANA cloud and compare with the input data for null values. If null values are found in the input data those values are updated with the data from the SAP S/4HANA cloud.

Step 7: Updates the product master data details by calling the API with input parameters sourced from the input excel file.

Step 9 to Step 10: Sets the error log, if any errors are found while calling an API.

Delete Product Master Data

This sub automation is to mark deletion of product master data using the request provided through input excel file in the SAP S/4HANA system.



Step 1 to Step 3: Creating data type variables for product master data details, API successful and error message.

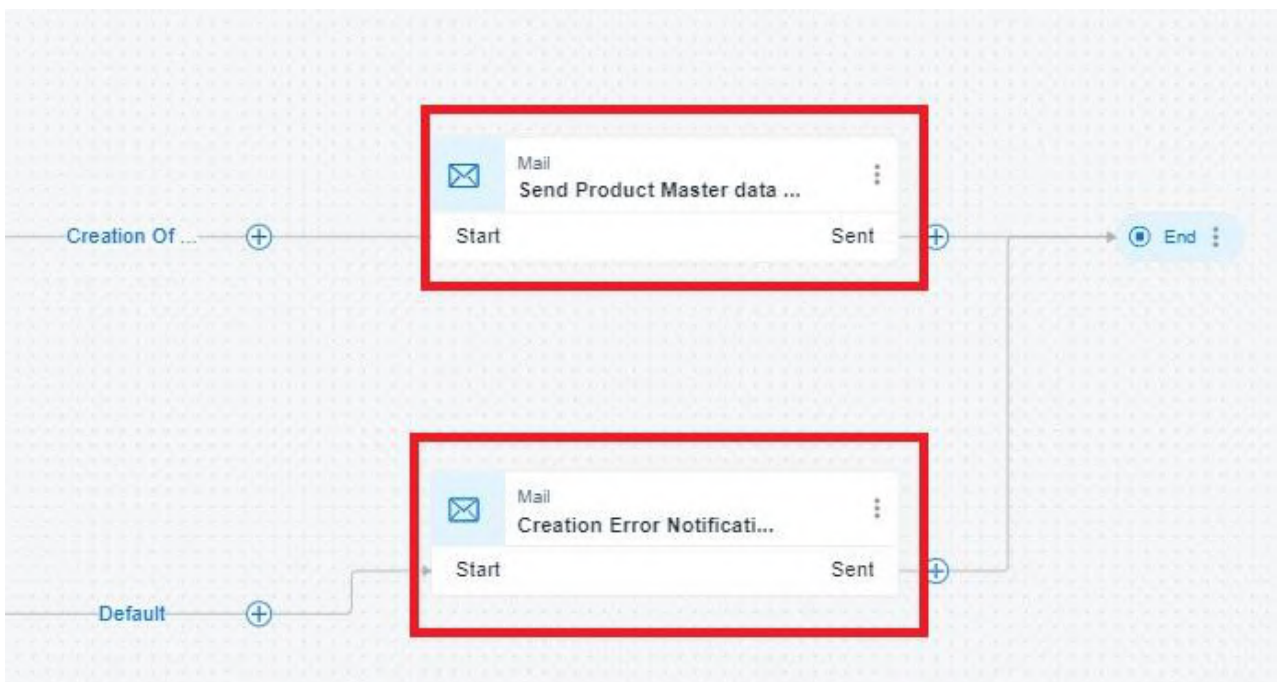
Step 5 to Step 6: Marks the product master data for deletion by calling the API with input parameters sourced from the input excel file.

Step 7 to Step 8: Sets the error log, if any errors are found while calling an API.

Email Notifications

The process contains below email tasks,

1. Send Mail Notification: To send a mail to the approver to remind them about the approval requests waiting in SAP Build Process Automation Inbox.
2. Error Notification: To send mail notification to the approver/stakeholder, if any error occurs in APIs during the process execution.
3. Send Product Master data Created/Updated/Marked for deletion Notification: To send mail notification to the approver/stakeholder if the product master data is created/updated/marked for deletion in the SAP S/4HANA system.
4. Send Rejected Notification: To send mail notification to the approver/stakeholder if the creation/updating/ marking for deletion the product master data is rejected by the approver.



Schedule an Automation to run in unattended mode.

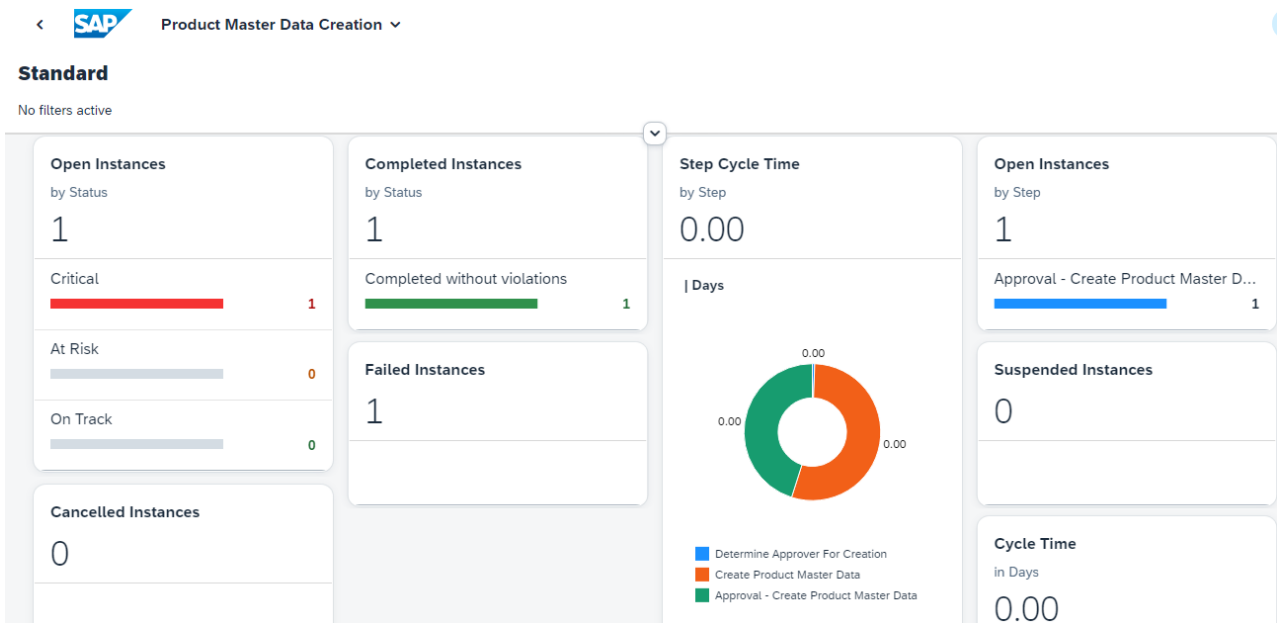
A scheduled trigger creates jobs that are based on the schedule you define in the trigger. These jobs run fully automatically. The following table provides steps to run the automation in scheduled mode.

Step	Instruction
Launch Desktop Agent	Launch Desktop Agent. Make sure that the Unattended mode is selected in the Projects tab of the Desktop Agent.

Open SAP Build Process Automation	<p>Perform the following to release and deploy the task automation:</p> <ul style="list-style-type: none"> • Navigate to the Store and search for the Product Master Data Management package. • Click Add to add the package to the Lobby. • In the Lobby, click the project to open the Overview page. • Click Release and then click Deploy. <p>For steps to release and deploy a project, see the Managing Existing Projects topic.</p>
Add a Scheduled Trigger	Add an unattended trigger to “ Manage Product Master Data ” automation. Refer to the Add a Scheduled Trigger topic for more information.
Monitor the Job	Open SAP Build Process Automation and click Monitor > Automation Jobs . You should see your job on the list. If not, adjust the date range on the Jobs page and refresh the page. For more details, refer to the Automation Jobs topic.
Check for Report	After your job status is Complete, verify notification emails sent to the respective stakeholders.

Process Visibility Scenario

The visibility scenario is a dashboard which allows business users to track relevant process KPIs and statuses. A default dashboard is provided with this template, and it can be customized by selecting attributes from your process which you want to track in the process dashboard. You can read more [here](#).



Support

There is no support available for the 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 a decision to determine the approver based on a certain business logic or add an action to post collected information to the backend SAP system. Refer [Help Portal](#) for more details.