



SAP® PartnerEdge®

Partner Certification Academies for SAP BTP
Low-Code/No-Code Developer - SAP Build

Creating Processes and Automations with SAP Build Process Automation

FOR INTERNAL SAP AND PARTNER USE ONLY

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Slides: Milton Chandradas

Explaining SAP Build Process Automation

Concepts

Participants in an average Business Process

3 main types of participants

Primary participant

Secondary participant

Need to be kept informed of process

Process Owner

Is overall, responsible for a process from the business perspective. Needs to trigger process adjustments when something does not run smoothly.

Process Initiator

Starts the process by performing an action. This can happen knowingly or unknowingly.

Decision Maker

Is responsible for taking decisions that influence the direction of the process. Approvals or rejections naturally lead to different process outcomes.

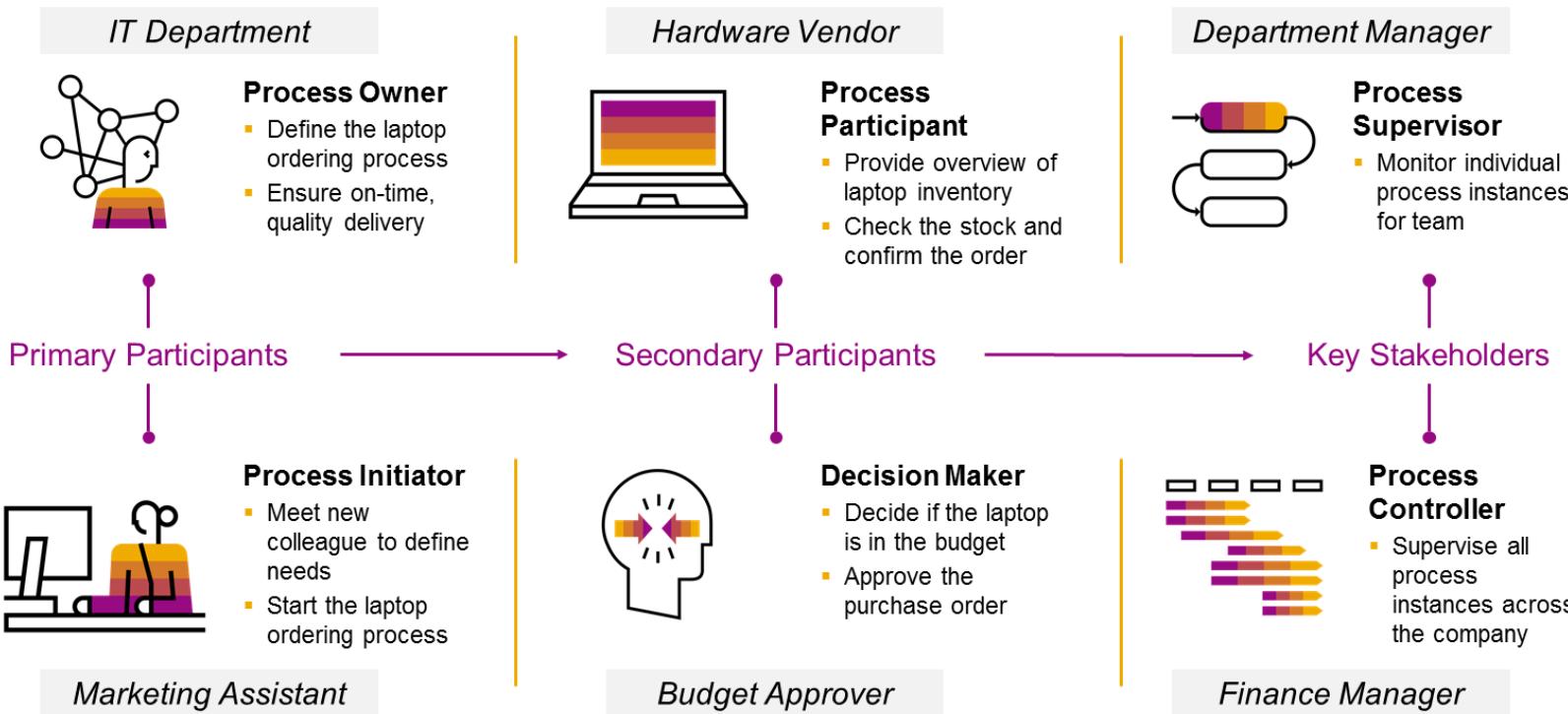
Process Participants

Need to perform certain tasks within the process. These can be physical tasks or tasks performed within software systems.

Process Instance Reviewer and Process Metrics Reviewer

Has a particular interest in certain process runs or the overall process metrics due to their job description.

Roles Involved in a Laptop Ordering Process



Primary Participant	Secondary Participant	Need to be kept informed
Process owners, Process initiators	Process Participants, Decision makers	Instance status, Metrics visibility
Example. Ordering a new laptop	Example. Ordering a new laptop	Example. Ordering a new laptop
Process owner <ul style="list-style-type: none"> Defines and owns the entire process IT department Process initiator <ul style="list-style-type: none"> Hiring manager, HR, New employee 	Process participant <ul style="list-style-type: none"> Hardware vendor Decision maker <ul style="list-style-type: none"> Approver 	Informed about individual instance <ul style="list-style-type: none"> Manager Informed about wider overview <ul style="list-style-type: none"> Financial controller

Benefits of Business Process Management

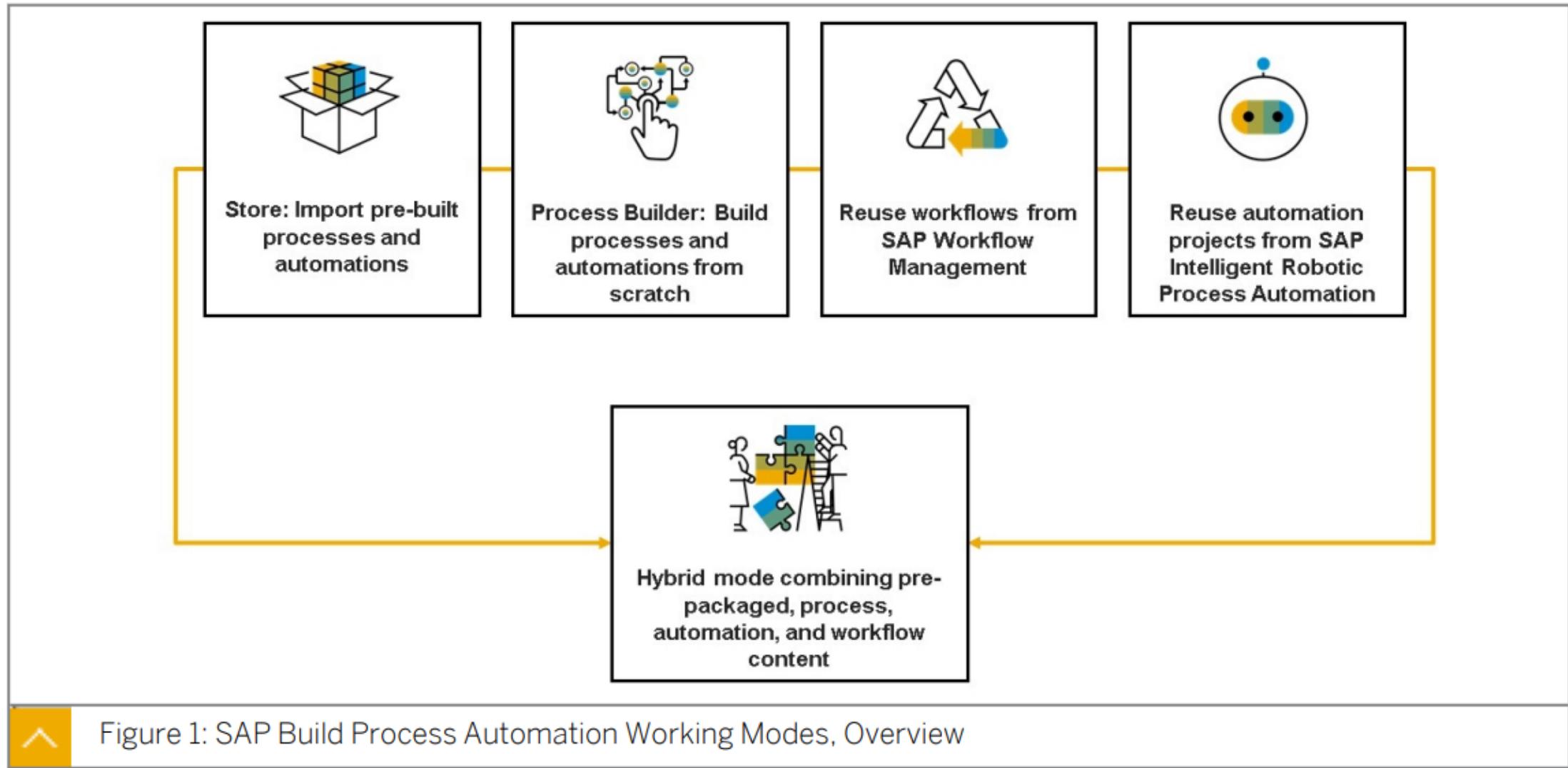
There are several benefits that come with managing the business process lifecycle with BPM:

- Enhanced visibility into organizational activity and control over the key business tasks.
- Ability to identify and solve bottlenecks or blockers saving time or costs.
- Improved communication and collaboration across the business allowing the staff to focus on important work.
- Agility due to the adaptability of transparent and well documented processes.
- Helps the business to strive for organizational efficiency.

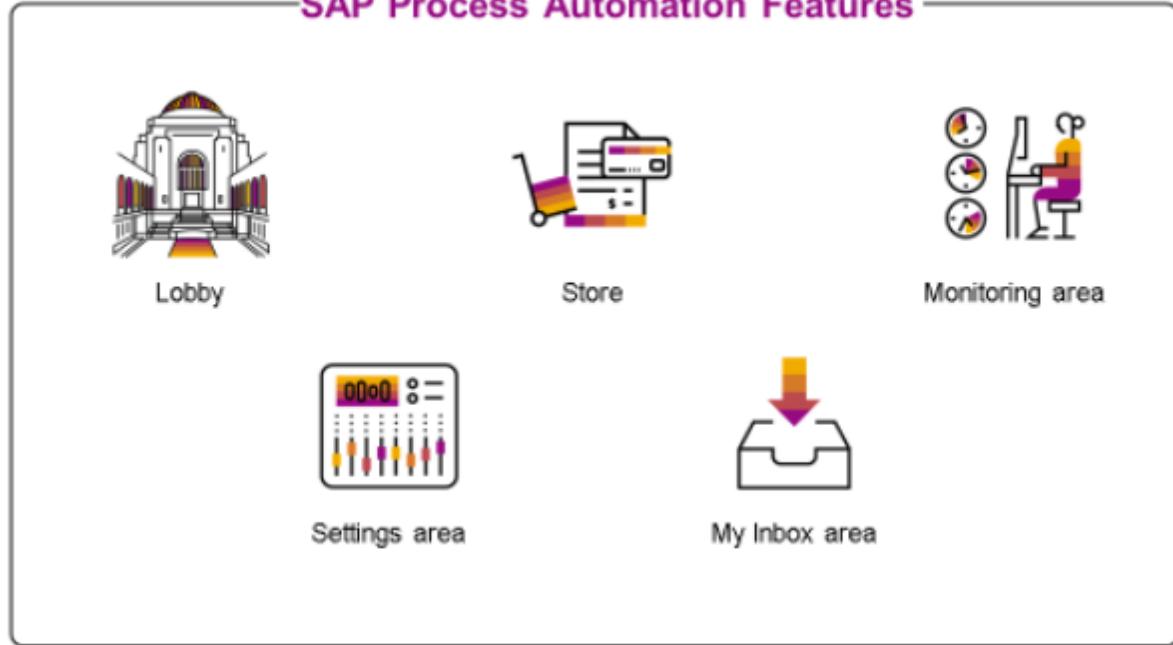
Benefits of Business Process Management System

- BPMS offers employees a set of standardized tools to manage processes
- Help problems become visible quicker
- BPMS drives efficiency
- Faster identification of breakdowns and processes means quicker response times and quicker fixes
- This leads to organizational agility, which is a competitive advantage
- Collaboration between departments becomes easier

SAP Build Process Automation Working Modes



SAP Build Process Automation Features



Lobby

Create, manage, deploy business processes

Store

Browse, add and use pre-packaged projects offered by SAP

Monitor

View and manage specific processes, automation jobs

Settings

Configure and manage desktop agents, backend settings, API keys

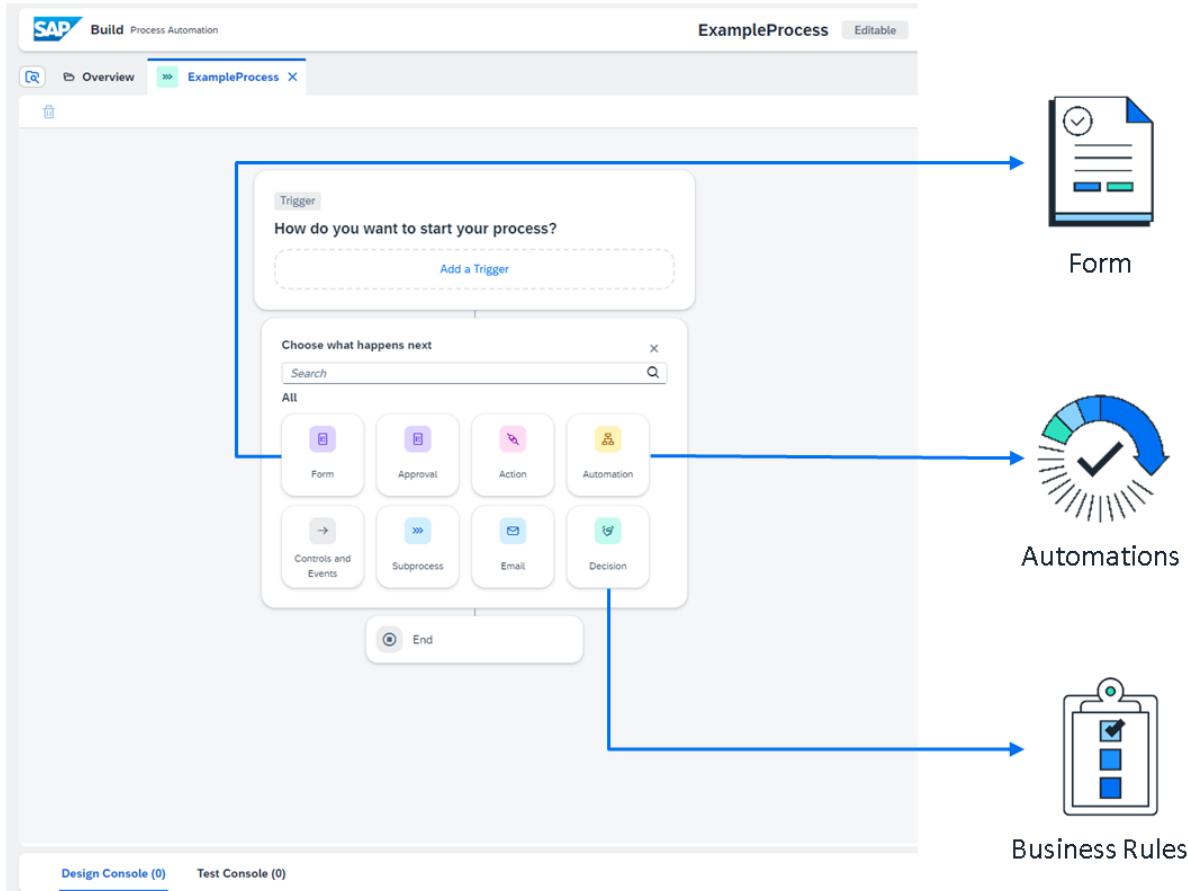
My Inbox

Displaying processing your tasks

The screenshot shows the SAP Application Development interface with the following elements:

- SAP Application Development** logo
- Lobby** (underlined)
- Store**
- Monitor**
- Settings**
- Quick Start** button
- 1**, **2**, **3**, **4** (yellow circles with numbers, likely part of a navigation sequence)
- 5** (yellow circle with number, highlighted)
- HS** (blue circle)
- Hide** button

Process Builder Tool



The Process Builder supports the creation and use of:

- Forms and approval forms
- Automations (bots)
- Decisions (business rules)
- Actions (also called skills)
- Controls
- Workflows developed in SAP Business Application Studio.

Set up

environment

BTP account:

Trial account

Get an Account on SAP BTP Trial <https://developers.sap.com/tutorials/hcp-create-trial-account.html>

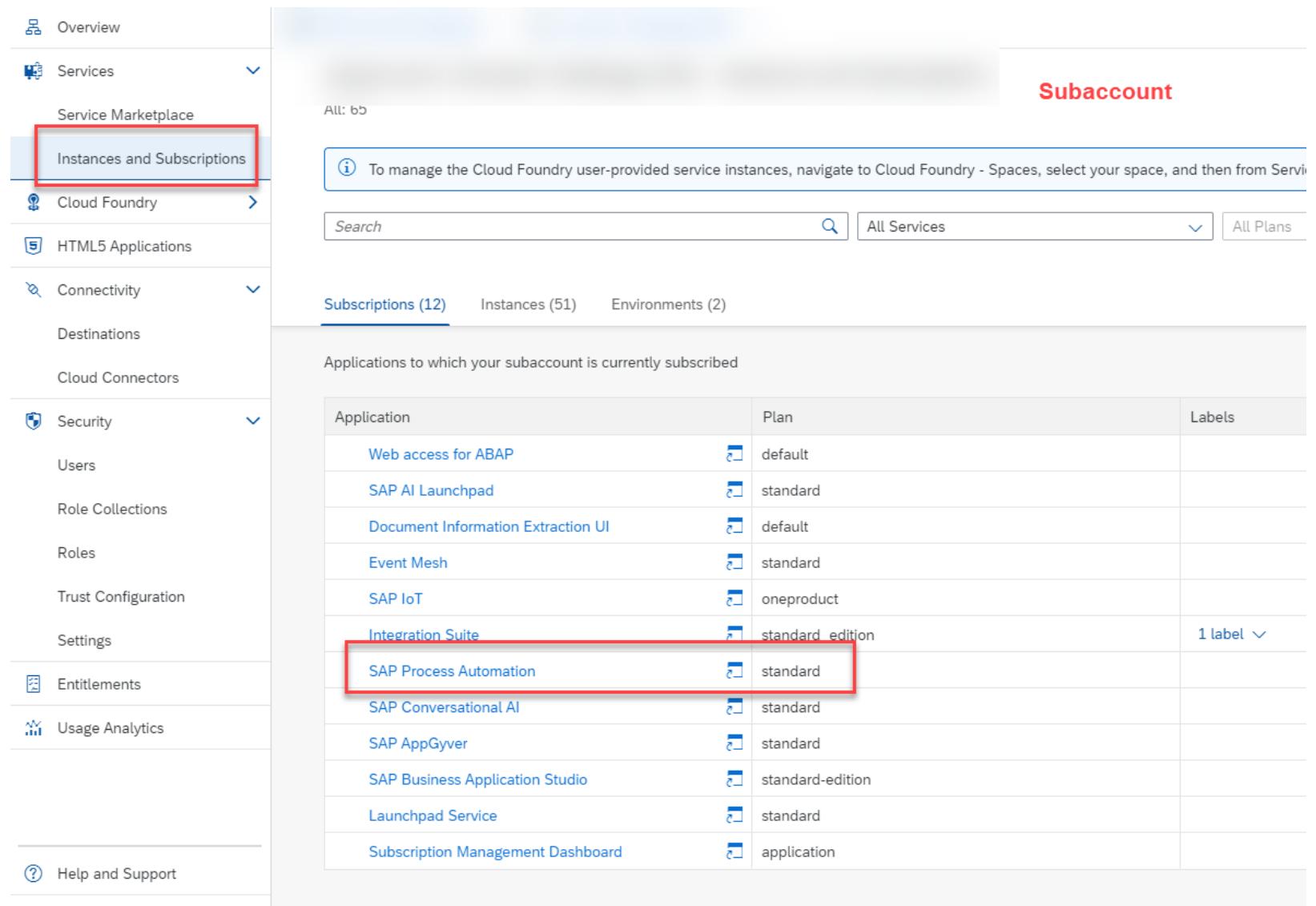
<https://www.sap.com/products/technology-platform/trial.html>

Free Tier

Subscribe to SAP Build Process Automation free tier <https://developers.sap.com/tutorials/spa-subscribe-booster.html>

Getting started with SAP Build Process Automation

Setting up SAP Build Process Automation using the Booster



The screenshot shows the SAP Build Process Automation interface. On the left, a sidebar menu is open under the 'Services' section. The 'Instances and Subscriptions' item is highlighted with a red box. The main area is titled 'Subaccount' and displays a list of applications to which the subaccount is currently subscribed. The 'SAP Process Automation' application is also highlighted with a red box.

All: 65

To manage the Cloud Foundry user-provided service instances, navigate to Cloud Foundry - Spaces, select your space, and then from Service Marketplace, choose Instances and Subscriptions.

Search All Services All Plans

Subscriptions (12) Instances (51) Environments (2)

Applications to which your subaccount is currently subscribed

Application	Plan	Labels
Web access for ABAP	default	
SAP AI Launchpad	standard	
Document Information Extraction UI	default	
Event Mesh	standard	
SAP IoT	oneproduct	
Integration Suite	standard_edition	1 label
SAP Process Automation	standard	
SAP Conversational AI	standard	
SAP AppGyver	standard	
SAP Business Application Studio	standard-edition	
Launchpad Service	standard	
Subscription Management Dashboard	application	

Desktop Agent for Automation

SAP Build

Lobby

Connectors

- Actions
- Events
- Automation SDK

Store

Monitoring

Control Tower

Agents

The domain for SAP Build Process Automation has changed. You might need to update your firewall rules to allow access to the tenant. For more information, see Super Domain Changes.

Register Agent

Go to Download Page

Items (3) Search

Mach Alias

1. Install the Agent

Open the file once the download is finished.

Agent Documentation

Download for macOS Arm64 (3.25.43)

2. Allow Extension

After installation, allow the browser extension and restart your browser.

3. Register

The Desktop Agent could not be reached. Make sure your browser extension is activated and is up-to-date.

Link to documentation

Register Agent

Desktop Agent for Automation

Pre-requisites

Install and setup desktop agent

<https://tools.hana.ondemand.com/#cloud>

SAP Process Automation: Desktop Agent 3 for Trial

SAP Process Automation is a hybrid solution composed of both cloud and desktop components.

Find below the Desktop Agent 3, that is required to execute your automations.

For more information on how to install and configure the Desktop Agent 3, see the [documentation](#).

Operating System	Version	File Size	Download
Windows (x86_64)	3.24.54	270.9 MB	sap-process-automation-3.24.54.exe (sha1)
Mac OS X (arm64)	3.24.57	155.2 MB	sap-process-automation-3.24.57_darwin-arm64.pkg (sha1)
Mac OS X (arm64)	3.24.57	157.3 MB	sap-process-automation-3.24.57_darwin-arm64.zip (sha1)
Mac OS X (x64)	3.24.57	161.9 MB	sap-process-automation-3.24.57_darwin-x64.pkg (sha1)
Mac OS X (x64)	3.24.57	164.0 MB	sap-process-automation-3.24.57_darwin-x64.zip (sha1)

Existing Contents

Live Process, Business Process, Task Automation

Store for Process Automation Content

- The Store is a central component within SAP Build Process Automation
- Offers prebuilt content created and curated by SAP that can be used free of charge

The screenshot shows the SAP Build Store interface. The left sidebar includes links for Lobby, Connectors, Store (which is selected), Monitoring, and Control Tower. The main area has a 'Filter By' section with options like Added Projects, Project Type, Format Type, Content Type (Free or Paid), Catalog, Product, Publisher, Line Of Business, and Industry. A search bar at the top right allows filtering by project name and sorting by last updated. The central part of the screen displays a grid of content packages:

- Manage Employee Central Stalled Workflows**: Automates the process of managing stalled workflows in the SAP SuccessFactors employee central. Publisher: SAP Build Process Automation. Buttons: Template, Create from Template.
- SuccessFactors Workflow Action**: Action that utilizes the SAP SuccessFactors employee central API. This action is used to fetch the pending... Publisher: SAP Build Process Automation. Buttons: Ready to use, Add.
- Employment Information Action**: Action that utilizes the SAP SuccessFactors employee central API. This action is used to fetch the employee's jo... Publisher: SAP Build Process Automation. Buttons: Ready to use, Add.
- Position Management Action**: Action that utilizes the SAP SuccessFactors employee central API. This action is used to fetch the employee's... Publisher: SAP Build Process Automation. Buttons: Ready to use, Add.
- User Management Action**: Action that utilizes the SAP SuccessFactors employee central API. This action is used to fetch the employee's... Publisher: SAP Build Process Automation. Buttons: Ready to use, Add.
- Mass Fixed Asset Acquisition**: Automates mass asset acquisition posting in SAP S/4HANA system. Publisher: SAP Build Process Automation. Buttons: Template, Create from Template.
- Manage Asset Creation Requests**: Manage Asset Creation Requests content package for SAP S/4HANA and SAP S/4HANA Cloud enables to automate... Publisher: SAP. Buttons: Ready to use, Add.
- Excel SDK**: The Excel SDK package is a collection of activities allowing you to create automations using Microsoft Excel. Publisher: SAP Build Process Automation. Buttons: Ready to use, Open.
- Powerpoint SDK**: The PowerPoint SDK package is a collection of activities allowing you to create automations using Microsoft... Publisher: SAP Build Process Automation. Buttons: Ready to use, Open.

[!\[\]\(9215a40c916c06eb7383cdd1fe97b4e5_img.jpg\) Lobby](#)[!\[\]\(cb81769881af651ccb735a5045b47375_img.jpg\) Connectors](#)[Actions](#)[Events](#)[Automation SDK](#)[!\[\]\(d4e92a70a184987c4cee61bbacf99330_img.jpg\) Store](#)[!\[\]\(898a81de9c4aff71234b2158571b7213_img.jpg\) Monitoring](#)[!\[\]\(2b0f02b4a70afa75816b328a8d32ffe7_img.jpg\) Control Tower](#)

Filter By

[Clear filters \(0\)](#) Added Projects**Project Type** Process Task Automation Live Process Business Process Actions**Format Type** Ready to use Template[Content Type \(Free or Paid\)](#)[Catalog](#)

Project Types

Feature	Live Process	Business Process	Task Automation
Purpose	Automate and optimize predefined, configurable processes, including a Process Template, Decisions, and a Visibility Scenario	Automate end-to-end, customizable workflows across departments.	Automate repetitive tasks and manual work using bots.
Complexity	Medium complexity; predefined with some configuration options.	High complexity; fully customizable workflows with multiple steps.	Low complexity; focused on single, repetitive tasks.
Customization	Minimal, through configuration options.	High, built from scratch or heavily customized.	Focused on specific tasks, minimal customization.
Involvement	Involves configuration by business users.	Involves design and orchestration by developers or process owners.	Bot-driven; automates user-level, repetitive tasks.
Integration with Systems	Limited to predefined integrations.	Full integration with multiple systems, including SAP and non-SAP.	Typically limited to automating interactions with specific applications.
Example	Approval workflows, employee onboarding.	Order-to-cash, procurement-to-pay, cross-department workflows.	Data entry automation, form filling, report generation.

Activate Process + Task Automation Content

Excel Document 1

Data about goods and materials

Excel Document 2

Data about goods and materials

Excel Document n

Data about goods and materials

Create Purchase Requisition

Retrieve data about goods and material from Excel documents

Filters

Project Type

Process

Format Type

Template

Products

Microsoft Excel
SAP S/4HANA

Line of Business

Sourcing and
Procurement

Create Purchase Requisitions from Excel

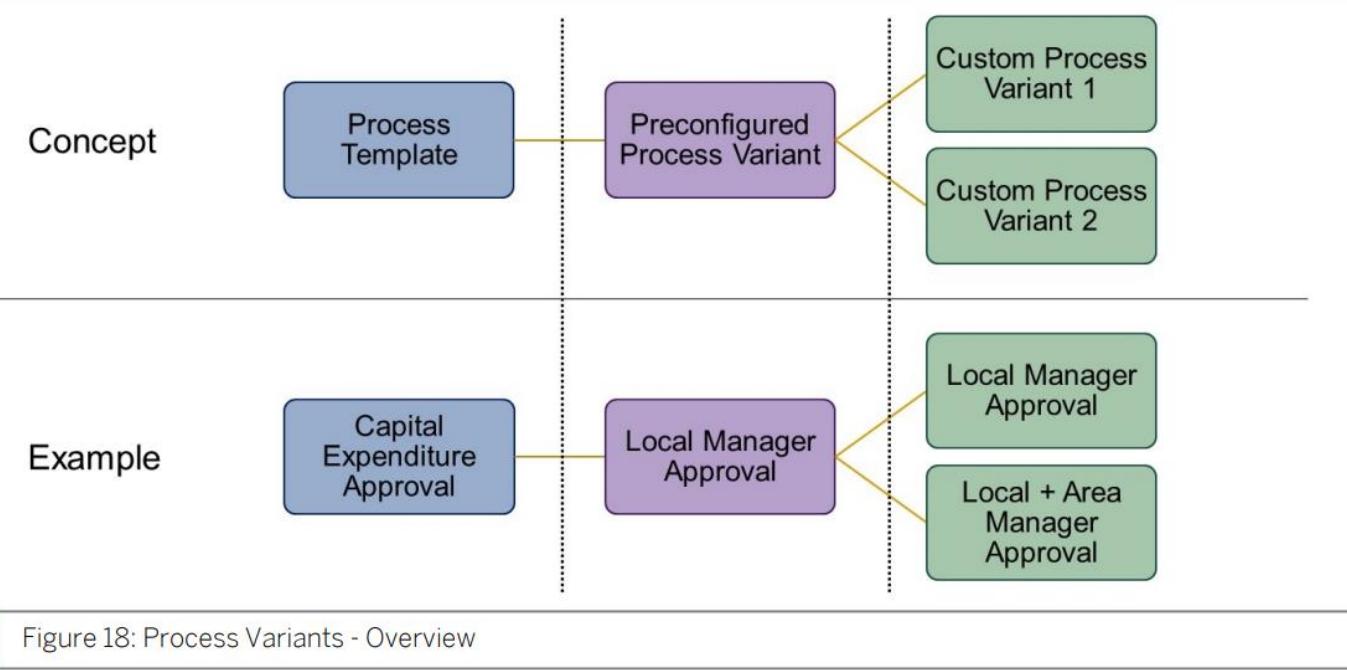


Figure 18: Process Variants - Overview

Process Variants - Concept

Live Process from the store

Typically includes

- Process template
- Decision
- Visibility Scenario

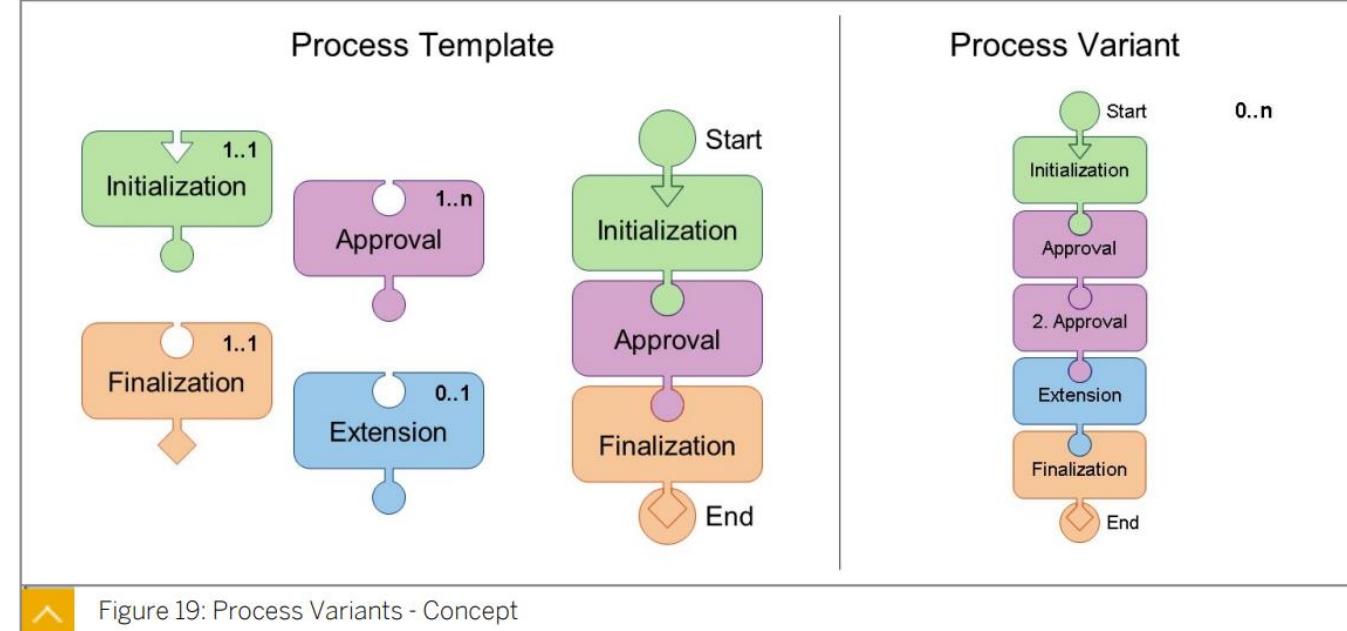


Figure 19: Process Variants - Concept

Process Template

- Consists of process steps and a preconfigured process variant, which represents a minimum viable process.
- Can be used to configure any number of so called process variants. Process variants represent individual use cases of a process (for example, when the total request amount is lower than 10,000 Euro, only one approval is required but when the total request amount is higher than 10,000 Euro, two approvals are required. (these will be explained in more detail soon)).

Decision

- Contains business rules that are relevant for the process flow. For example, Determine Process Variant contains a rule that determines the process variant to be executed, depending on the request data (for example, process variant 1 when the total request amount is lower than 10,000 Euro, process variant 2 when the total request amount is higher than 10,000 Euro).
- Is configurable based on business requirements.

Visibility Scenario

- Contains a preconfigured Process Visibility Scenario for the underlying process template.
- Can be adjusted based on business requirements.

Activate Process + Live Process Content

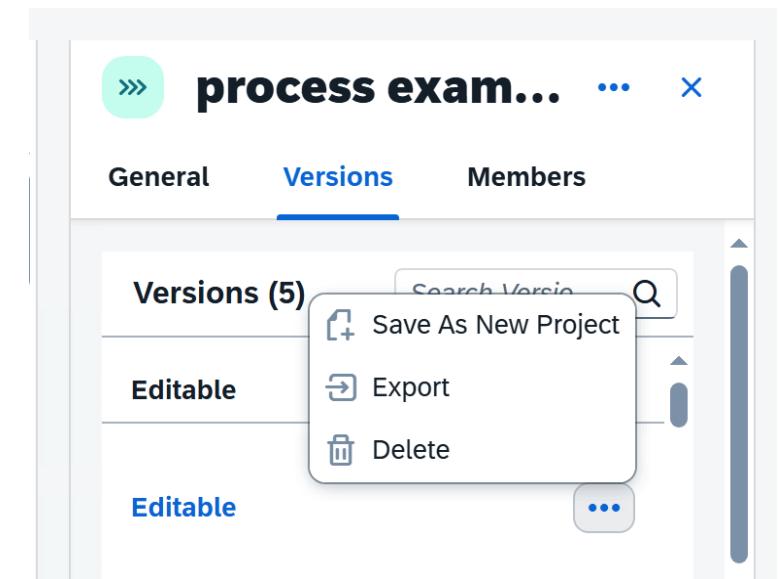
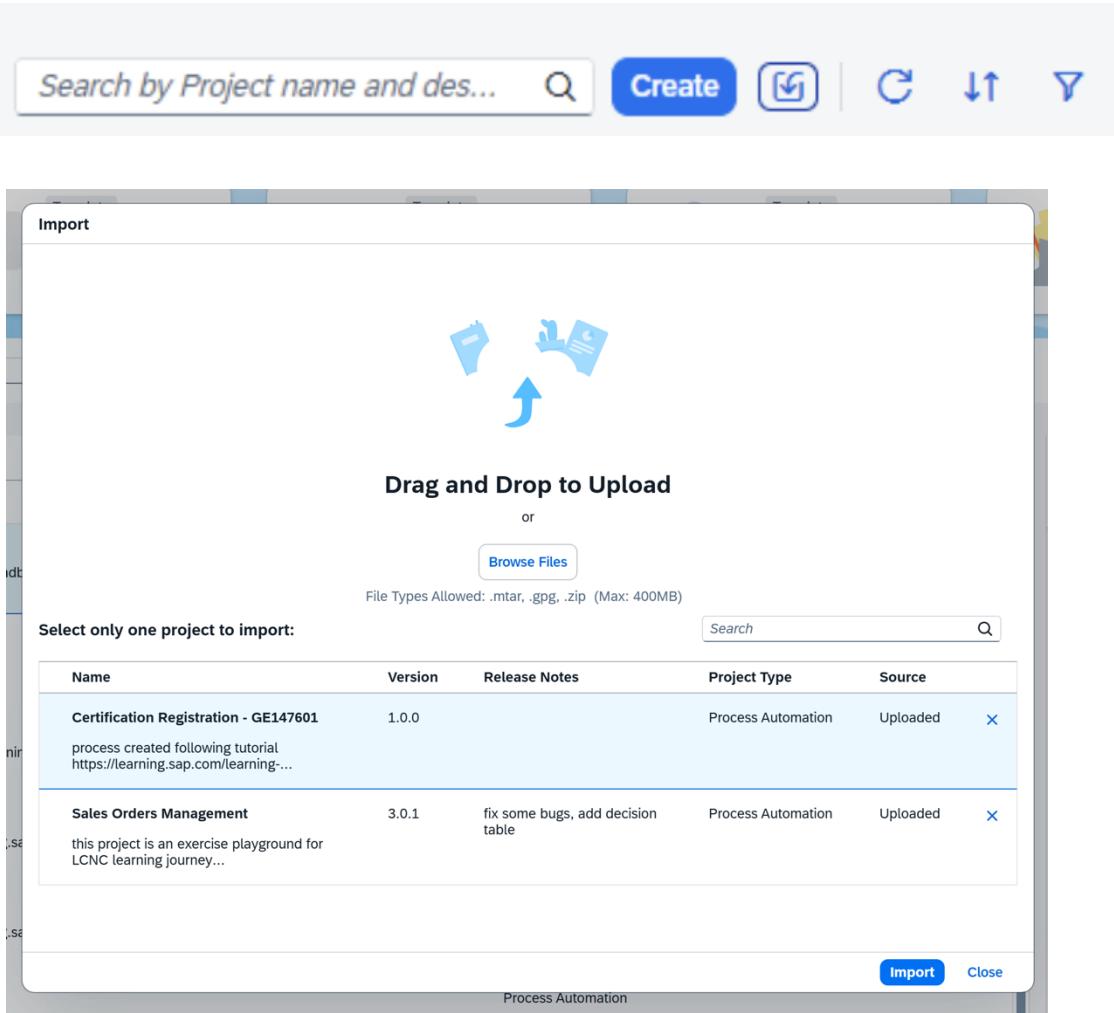


Filters	
Project Type	Process
Journal Entry Posting Approval	

Import and Export

import

export

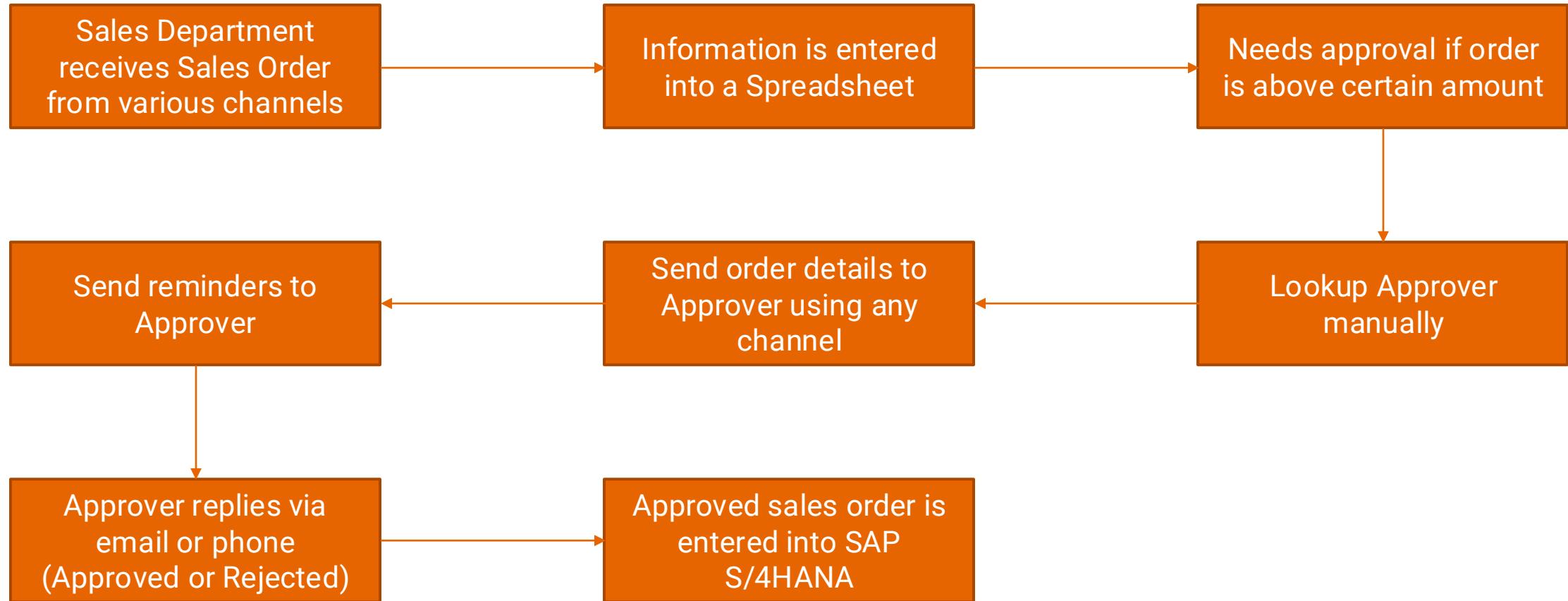


Build a process

Process, Forms, Automation, Control, Decision Table

Sales Order Management Approval

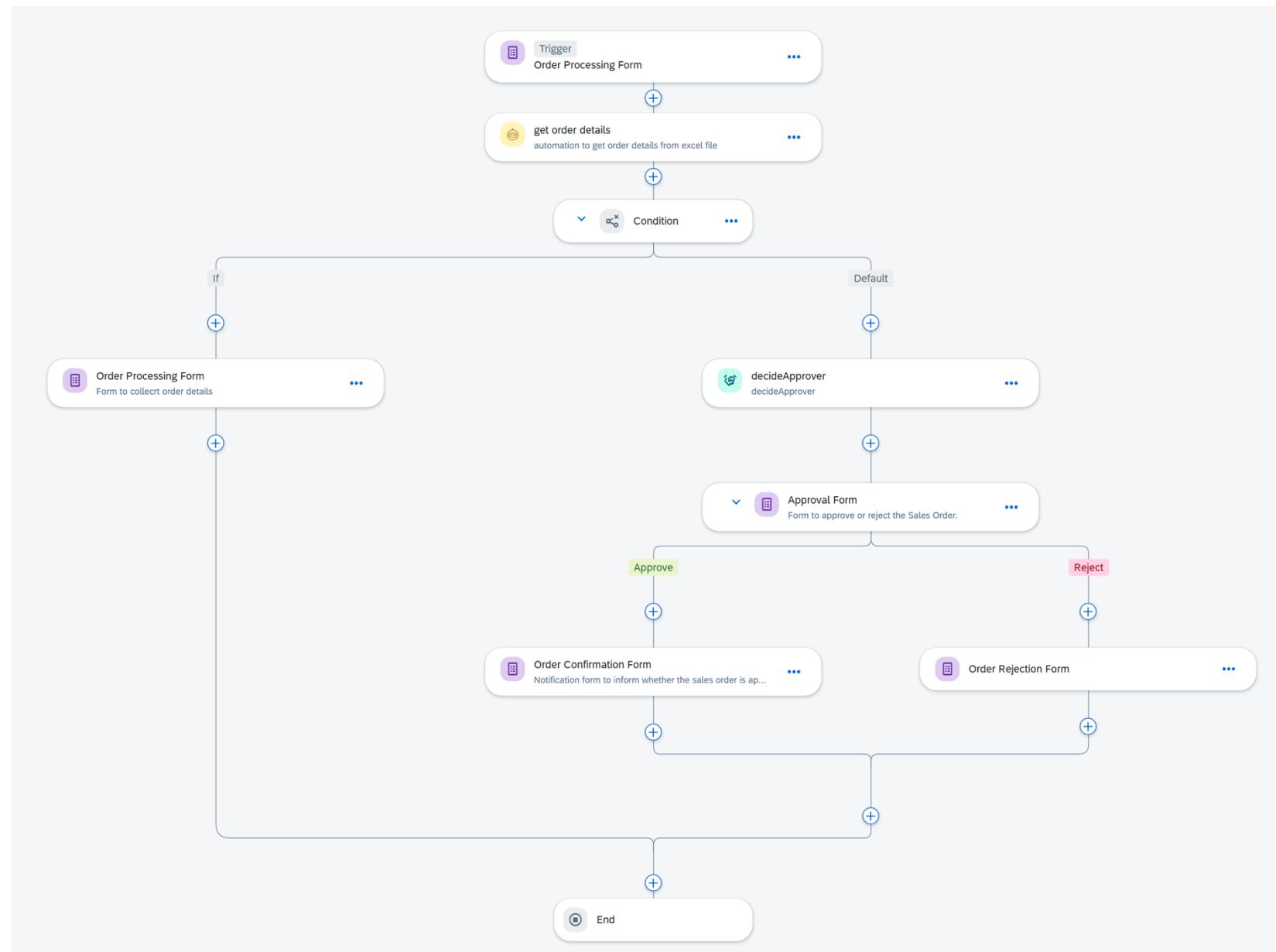
original business process with manual steps



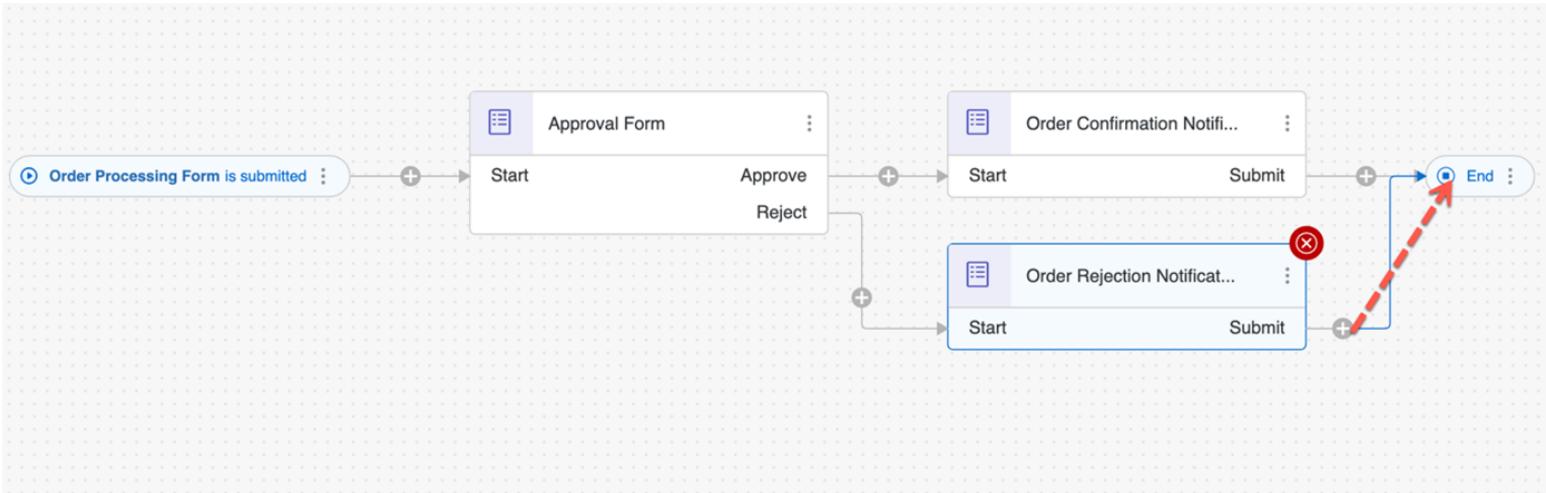
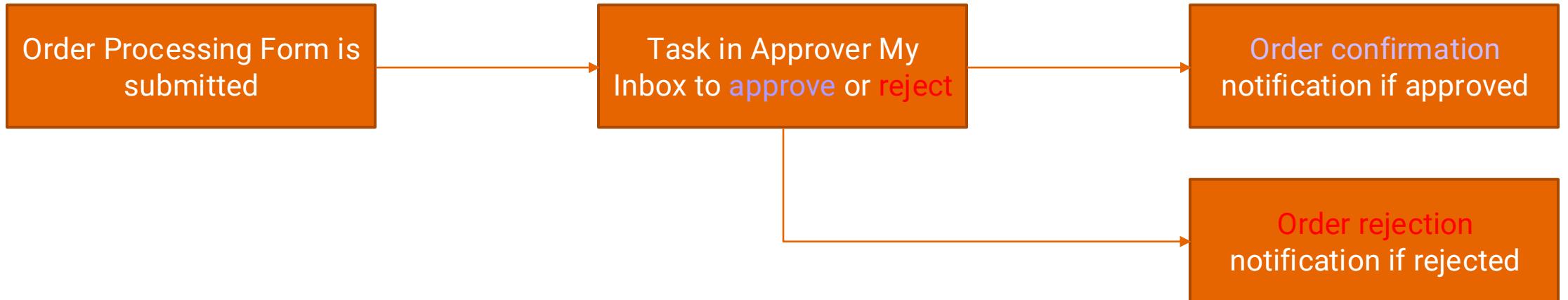
Process automation

Steps:

- create forms
- build automation
- add condition
- add decision
- release and deploy



1. Get started with a Business Process



Steps involved

Create 4 forms

- Order Processing Form
- Approval Form
- Order Confirmation Notification Form
- Order Rejection Notification Form
- Connect them all together
- Set general/input/output properties

The screenshot shows the SAP Build Process Automation interface for Sales Order Management. The top navigation bar includes tabs for Overview, *Order Processing, Approval Form, and *Order Confirmation Form. The current form is titled "Order Confirmation Form". The main content area displays a message: "Your order has been received and accepted for delivery. We will send you the details as soon as the order is shipped. You can find the details of your order below. Please review and verify your request." Below this message is a large text area labeled "My Text Area" with the placeholder "Enter Text". A yellow circle with the number "14" is placed over the "Enter Text" placeholder. To the left of the text area is a vertical toolbar with icons for H1, H2, A+, T, E, and other form elements. On the right side, there is a sidebar titled "New Text Area" with sections for "Character Limit" and "Input Validation", and checkboxes for "Required" and "Read Only". At the bottom of the form, there is a "Submit" button and links for "Design Console (0)" and "Test Console (0)".

 Approval Form X

General Inputs Outputs Attributes

Step Name: *
Approval Form

Approval Form:
Approval Form

Subject: *
Review and approve order  Order Number from  

Description:

Priority: *
Medium

Recipients *  
Provide at least one

Users   

Groups   

Allow Forwarding

Due Date

Choose the type of due date: *
Static Duration

After the task was created, it is due in or on: *
2 Days

2. Boosting Business Process with Automation



Automation set up

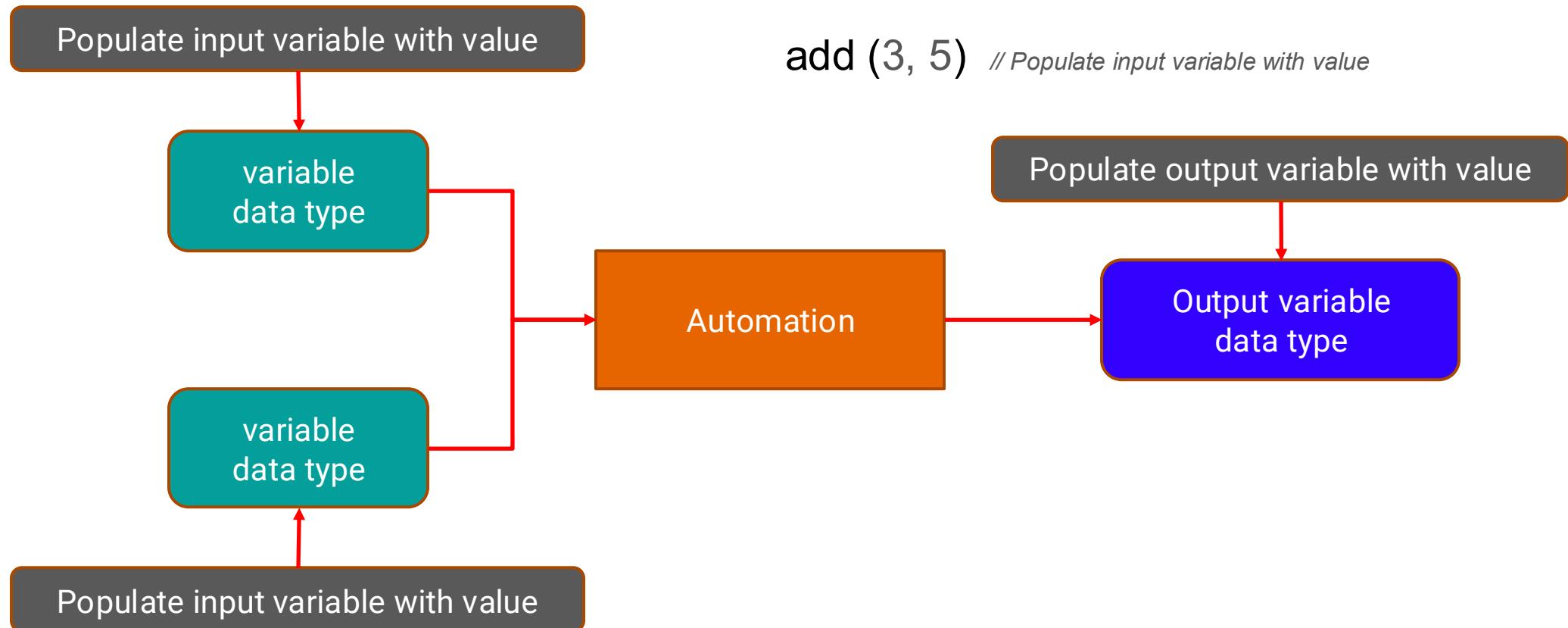
Set up steps:

- download desktop agent installer
- install desktop agent and browser extension
- enable browser extension
- register desktop agent
- add desktop agent to environment
- set desktop agent mode from design to unattended

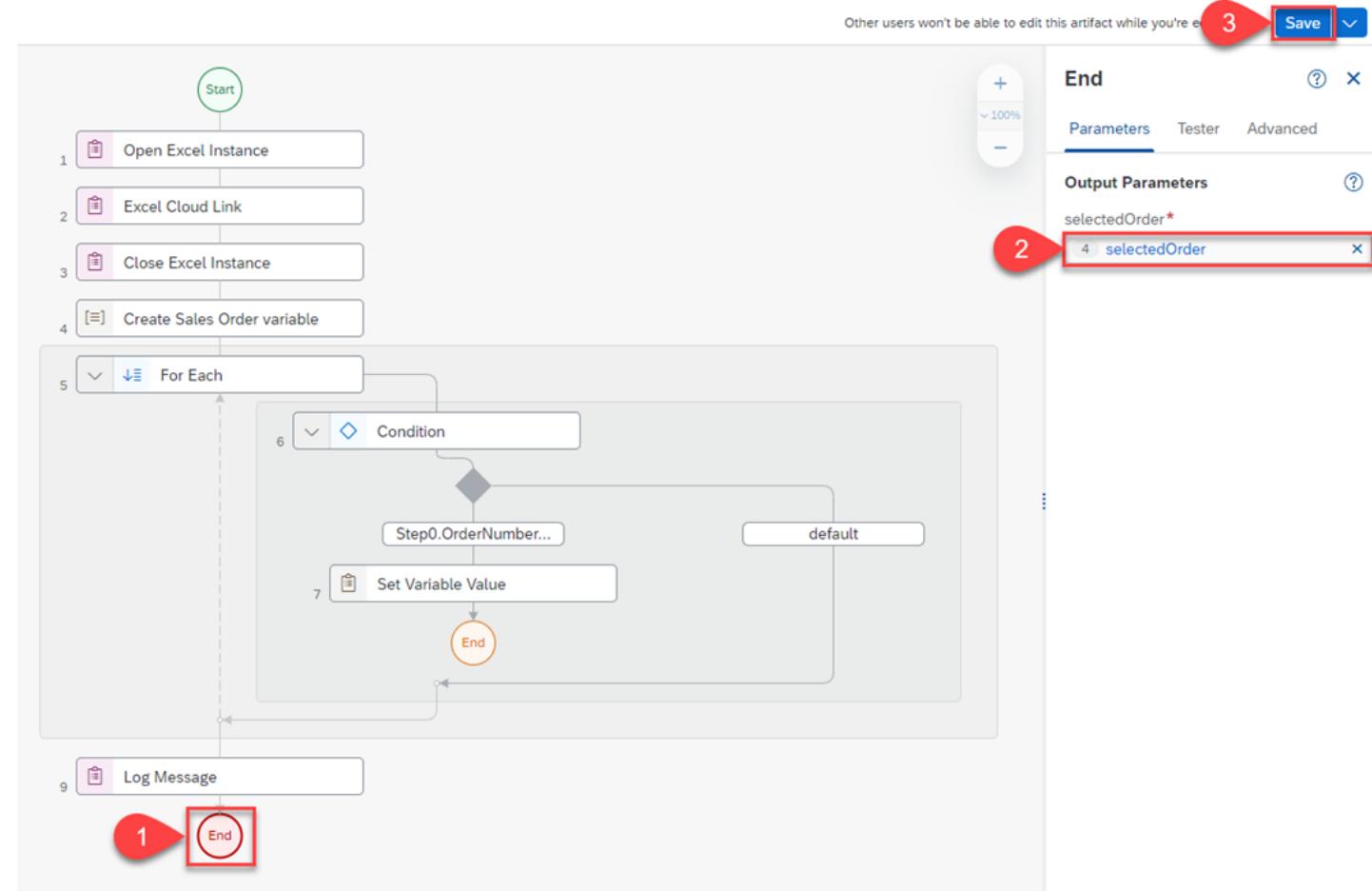
The screenshot shows the SAP Build Control Tower interface. The left sidebar has sections for Lobby, Connectors (Actions, Events, Automation SDK), Store, Monitoring, and Control Tower (which is highlighted). The main area shows a Public environment with details like Last Updated (Jul 29, 2025 8:22 PM), Author, Members (1 member), Identifier (default), and Description (This public environment can be accessed by all registered users for this tenant). Below this, the Agent Management tab is selected in a navigation bar with options: Projects, Triggers, Automation Launchers, Agent Management (selected), Alert Handlers, Variables, API Keys, and More. The Agent Management table lists one agent: Type (Agent), Login / Group Name (I505432), Machine / Alias (dewdfm0025), Status (Busy), Attributes, Version (3.44.58), Last Updated (Just now), and Actions (trash icon).

Type	Login / Group Name	Machine / Alias	Status	Attributes	Version	Last Updated	Actions
Agent	I505432	dewdfm0025	Busy		3.44.58	Just now	

Automation



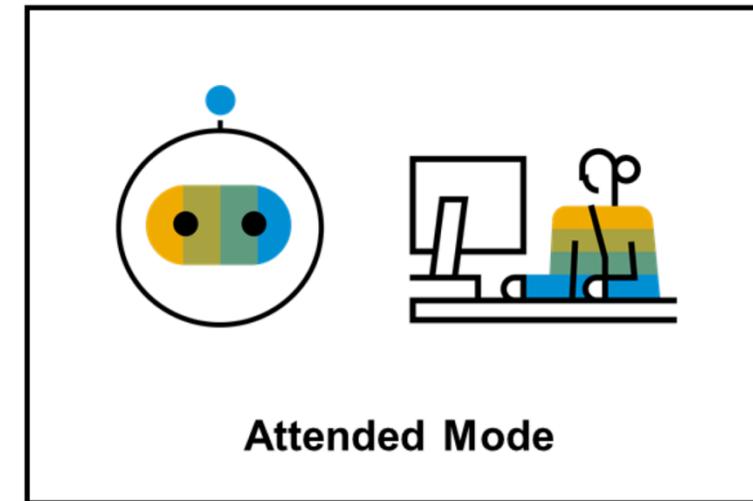
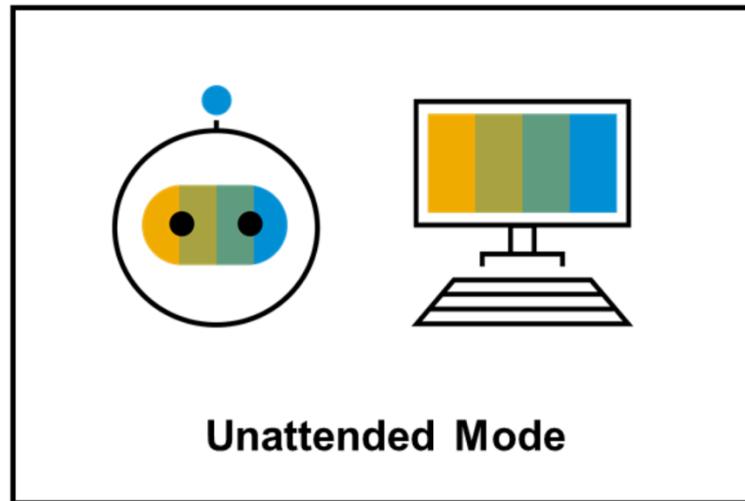
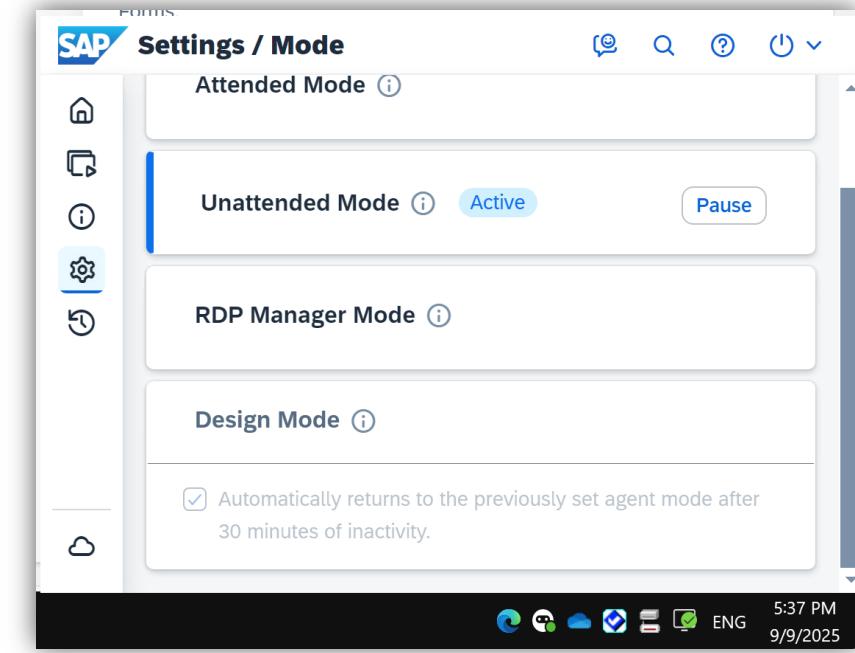
Boosting Business Process with Automation



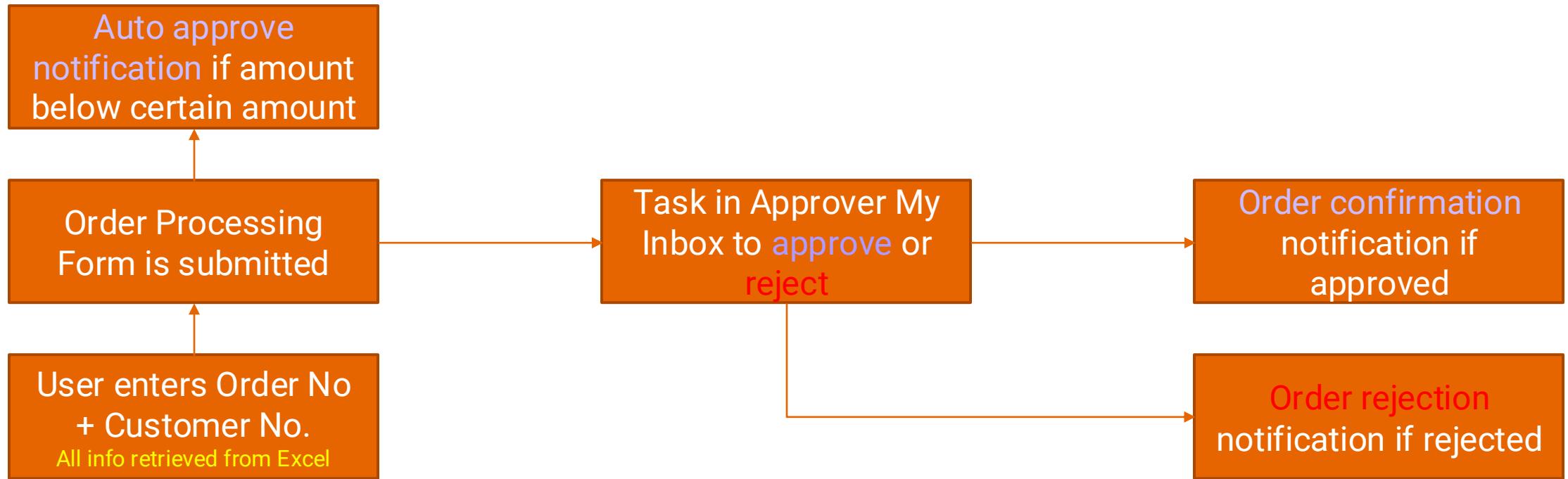
Steps involved

Add new automation

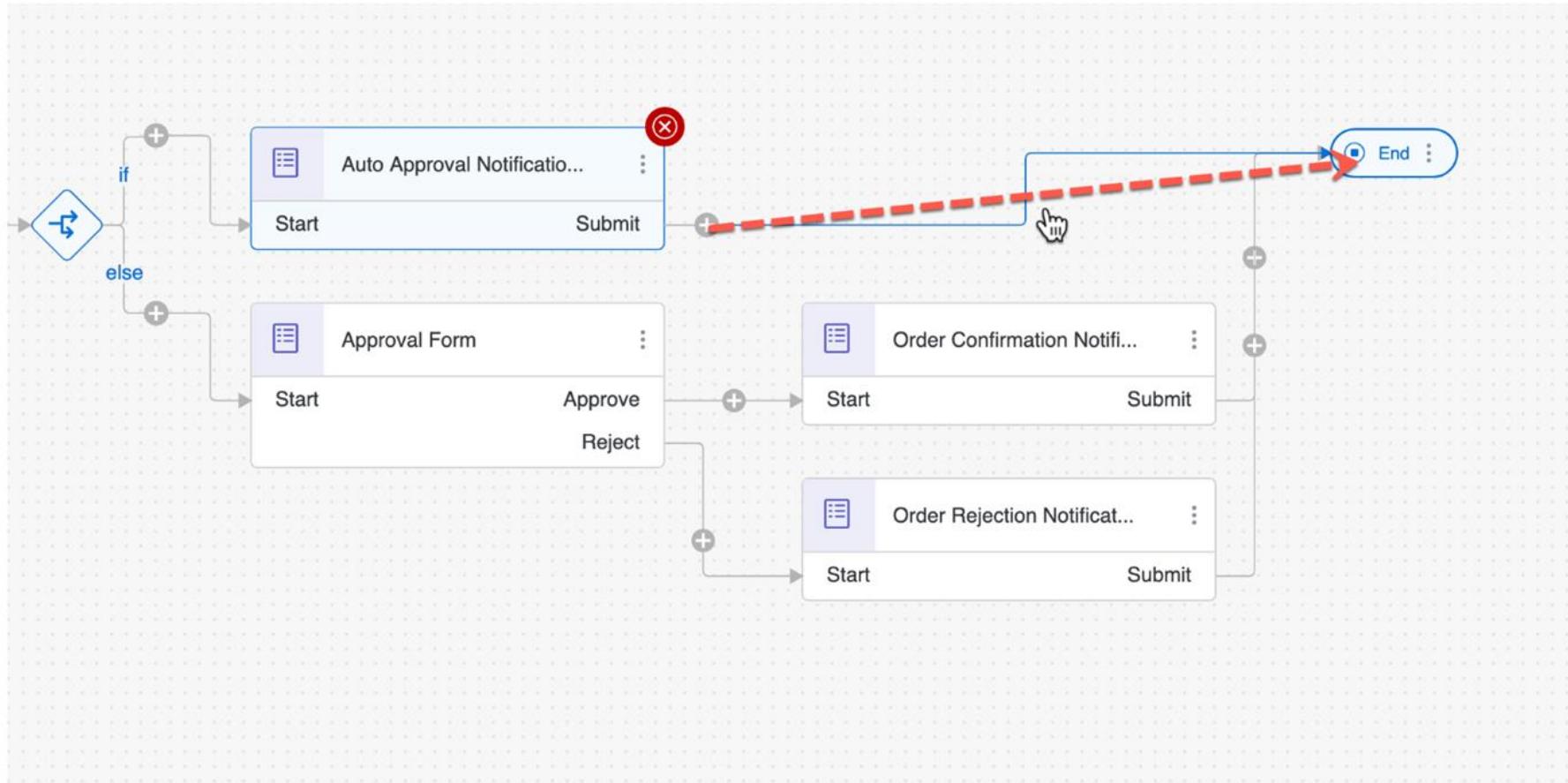
- Open Excel instance
- Read data into a variable: **Orders**
- Close Excel instance
- Loop through **Orders**
 - If order number matches, retrieve row values...
- Exit loop



3. Controlling the flow



Controlling the flow



Steps involved

Add new condition

- Criteria: Order amount < 100000
- If true – New automatic approval form

Edit Branch Condition

Satisfies:
All Any of the following:

Clear All

Order Amount X is less than 100000 X

All Any Remove Group

Shipping Country X is equal to India X

Shipping Country X is equal to Germany X

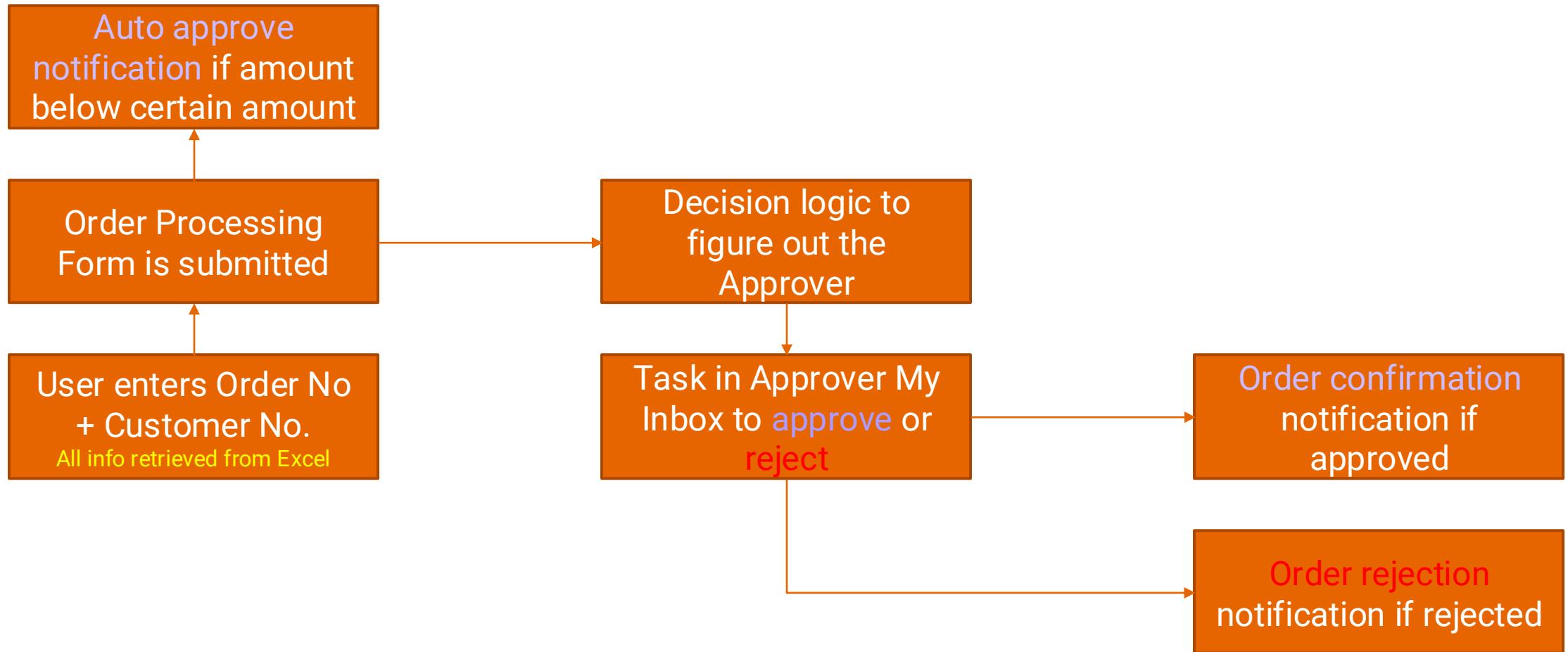
Add

Add Add Group

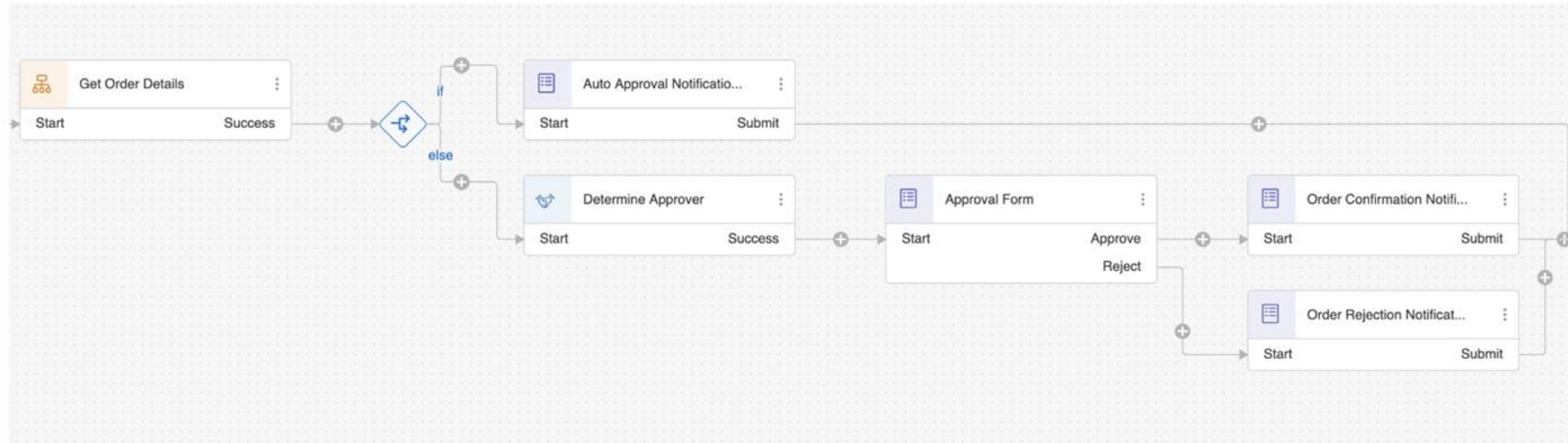
Apply Cancel

The screenshot shows a modal dialog titled 'Edit Branch Condition'. Under the 'Satisfies' section, it says 'All Any of the following:'. There are three main conditions listed: 1) 'Order Amount X is less than 100000 X'. 2) A group starting with 'All Any Remove Group' containing two sub-conditions: 'Shipping Country X is equal to India X' and 'Shipping Country X is equal to Germany X'. 3) Buttons for 'Add' and 'Add Group'. At the bottom are 'Apply' and 'Cancel' buttons.

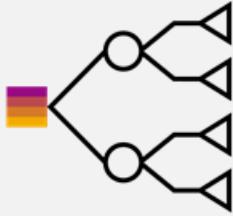
4. Improving the process with decision logic



Improving the process with decision logic



Improving the process with decision logic



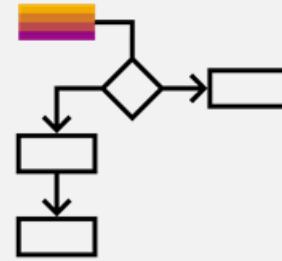
Decision

Capability through which you can model and manage complex business logic in a well-formed structure that is easy to maintain.



Policy/Policies

A decision consists of one or more policies.
Each policy consists of a collection of rules.



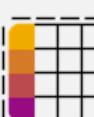
Decision Diagram

a flow chart that describes the execution flow of the decision logic from the input to the output.

Rules



Decision Table Rule



Text Rule

Steps involved

Add decision to your process

- Create the rules using decision table
- Rules will be executed in strict order (order in which they are added to policy)

Order Amount	Shipping Country	User Group	User
<= 100,000	India, Germany, United Kingdom	A	A1
<= 100,000	China	A	A2
> 100,000		B	B1

decideApprover

The process flow starts with an Input node, followed by a Decision node (labeled 'decideApprover'), and ends with a Result node. An input parameter 'salesOrderInput' feeds into the decision. The decision output is an output parameter 'approverOutput'. A callout box for the decision table provides the following details:

byAmount
determine approver A if amount is less than 100,000

Decision Table

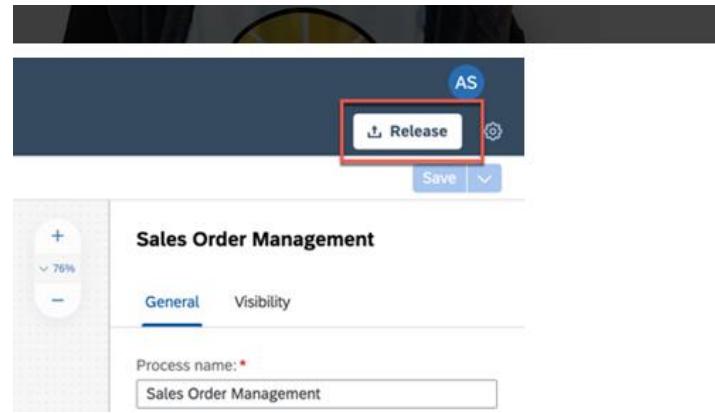
If	Then
orderAmount <= 100000	shippingCountry Email Name
EXISTSIN ['United Kingdom', 'India', 'Germany']	'sindy.zhan@sap.com'
EXISTSIN ['China']	'User A1'
orderAmount <= 100000	'sindy.zhan@sap.com'
EXISTSIN ['China']	'User A2'
orderAmount > 100000	'sindy.zhan@sap.com'
	'User B1'

5. Release, Deploy and Run the Business Process

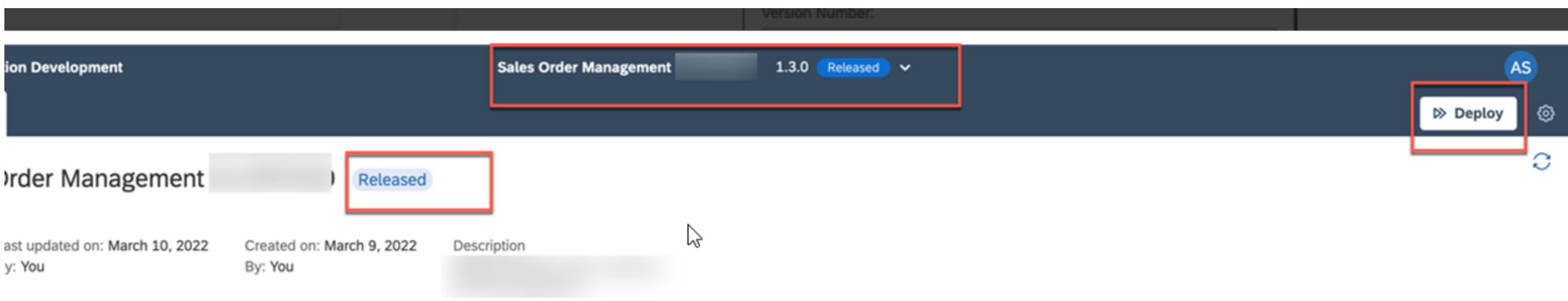
After you have finished modeling your process with various forms, it is time to run it. Before you can run your process project, you have to first release and deploy it.

- The first step is to "**release**" a process project which creates a snapshot of its current status and gives it a dedicated version number. If you are releasing your process project for the first time, the version number will be 1.0.0.
- "**Deploying**" your process project can only be done after its release. The deployment makes it available for others to use. Please note that you cannot edit released or deployed process projects. If you need to make changes to an already released process project and deploy it, you will need to edit the process project and then re-release and re-deploy it.
- "**Running**" the process will demonstrate that the workflow has been triggered and the approval process project has started. To do this, you have to open the process builder of the deployed version and choose the form to get to the URL which is opened from the web browser.

Release, Deploy and Run the Business Process



The screenshot shows the SAP Fiori interface for managing business processes. On the left, there is a list item for 'Sales Order Management'. On the right, a detailed view is open for the same process. At the top of this view, there is a toolbar with a 'Release' button, which is highlighted with a red box. Below the toolbar, the process name is 'Sales Order Management'. The 'General' tab is selected, showing the process name again and a 'Save' button. To the right, a modal dialog titled 'Release Project' is displayed. It contains fields for 'Version' (radio buttons for 'Contains only patches', 'Contains minor changes' (selected), and 'Contains significant changes which may impact dependent projects'), 'Version Number' (text input '1.3.0'), 'Version Comment' (text area 'added decision to the process and adapted the process'), and an 'Optimize for faster execution' checkbox. At the bottom of the dialog are 'Release' and 'Cancel' buttons.



The screenshot shows the SAP Fiori interface after the release process. The top navigation bar has a 'Version Number' dropdown set to '1.3.0 Released'. The main content area shows the 'Sales Order Management' process card, which now has a 'Status' field indicating 'Released'. A red box highlights this 'Released' status. On the far right, there is a 'Deploy' button, also highlighted with a red box. At the bottom of the screen, there is footer information: 'Last updated on: March 10, 2022', 'Created on: March 9, 2022', 'By: You', and a 'Description' field with a blurred content.

Monitoring

SAP Build

Lobby

- Connectors
- Actions
- Events
- Automation SDK

Store

- Monitoring (selected)
- Control Tower

Monitor

- Process and Workflow Instances
- Automation Jobs
- Acquired Events
- Automation Overview

Automation Concurrent Quota Usage Today

Simultaneous execution

SAP Build

Automation Jobs

Search...

Include Test Jobs

Items (5)

Filtered by: Date, Status

Job Name	Status	Creation Date	Project	Environment	Source
get order details	Ready	Sep 9, 2025, 05:39 PM	process example Sales Order Management 20250826	Public	process
get order details	Completed	Sep 9, 05:39 PM	process example Sales Order Management 20250826	v3.0.1	
get order details	Completed	Sep 9, 05:24 PM	process example Sales Order Management 20250826	v3.0.0	
get order details	Failed	Sep 9, 05:22 PM	process example Sales Order Management 20250826	v3.0.0	
get order details	Failed	Sep 9, 05:22 PM	process example Sales Order Management 20250826	v3.0.0	

Monitoring / Automation Jobs / get order details

get order details Ready

Creation date: Sep 9, 2025, 05:39 PM Project process example Sales Order Management 20250826 Public Environment Source process

Status History Distribution information Input

Status History

Time Stamp	Status	Message
9/9/2025, 05:39:16 PM	Ready	> get order details

Distribution information

Declared Agents 1 Unattended Agents 1 Minimal SDK supported by agents 1.24.0 Job SDK 1.77.19 Minimal agent version 3.44

Input

SAP Build

Process and Workflow Instances

Error x Running x On Hold x 2 More

Project: Select one or more projects

Definition: Select one or more definitions

Environment: Select one or more environments

Adapt Filters (1)

Items (8)

Filtered By: Status

Process	Status	Timestamp	Message
process	Running	Sep 9, 2025, 5:39:13PM	process example Sales Order Man... 3.0.1
process	Completed	Sep 9, 2025, 5:24:36PM	process example Sales Order Man... 3.0.0

Logs Context

Logs

Timestamp	Message
Sep 9, 2025, 5:39:15PM	get order details started
Sep 9, 2025, 5:39:13PM	1 started the instance

Context

```

1 < (
2   "startEvent": {
3     "customerName": "customer test 1",
4     "orderNumber": "PO636B"
5   },
6   "custom": {}
7 )

```

SAP History / Jobs

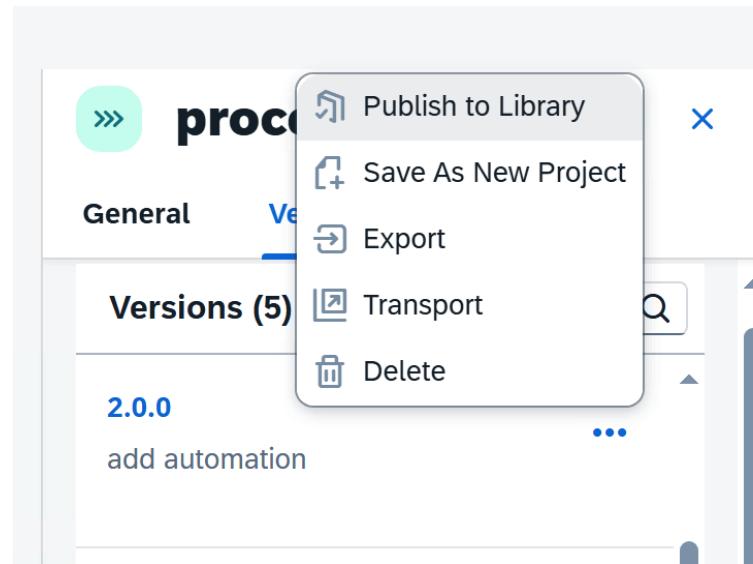
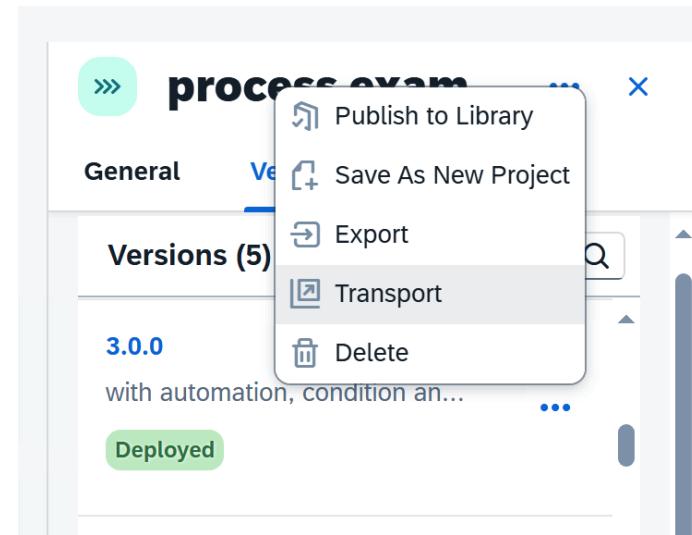
Jobs (4)

Status	Job Name	Time Stamp	Project Name
Success	get order details	Sep 9, 5:24 PM	process example Sales Order...
Failure	get order details	Sep 9, 5:22 PM	process example Sales Order...
Failure	get order details	Sep 9, 5:15 PM	process example Sales Order...
Failure	get order details	Sep 9, 5:09 PM	process example Sales Order...

Transport and Publish

transport

publish



6. Getting visibility into your process

The image consists of two side-by-side screenshots from SAP Application Development.

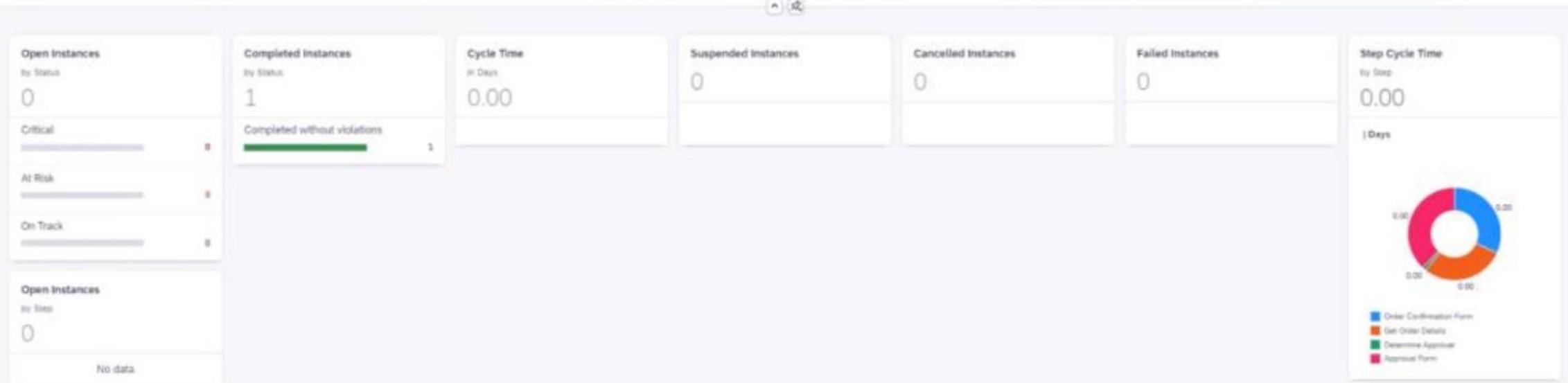
Left Screenshot: A list view of process components. A red box highlights the "Visibility Scenario" item under the "Process" category. A tooltip "Create a visibility scenario" is visible near the cursor. The list includes:

- Automation
- Alert
- Application
- Project Pane
- User Task
- Form
- Document Template
- Visibility Scenario
- Decision

Right Screenshot: A detailed configuration screen for a "Visibility Scenario". The title bar shows "SAP Application Development" and "Sales Order Management Stephan". The main area has tabs: General, Processes, Correlation, Phases, State, Status (selected), Attributes, Actions, and Performance Indicators. The "Status" tab is active, showing a "Target" section with a dropdown menu for "Target Type" containing "None", "Constant", and "Attribute". The "Sub-Status" section lists "Critical" and "On Track" status types. On the right, there are input fields for "Name: Critical", "ID: CRITICAL", and a "Description" field containing the text: "Status of the instance is critical when one of the sub-statuses defined evaluate:".

Standard

expectedDeliveryDate	orderAmount	orderDate	orderNumber	orderStatus	shippingCountry	Customer Name	
2022-01-27 ✘	150035.13 ✘	2022-01-22 ✘	POT918 ✘	Urgent ✘	United Kingdom ✘	SAP SE ✘	Adapt Filters (7)



Actions Projects

actions

Actions Project

APIs are encapsulated as Actions within Actions projects

Abstraction of the API – making it simpler to consume

APIs are modified – making it safe, more application-centric

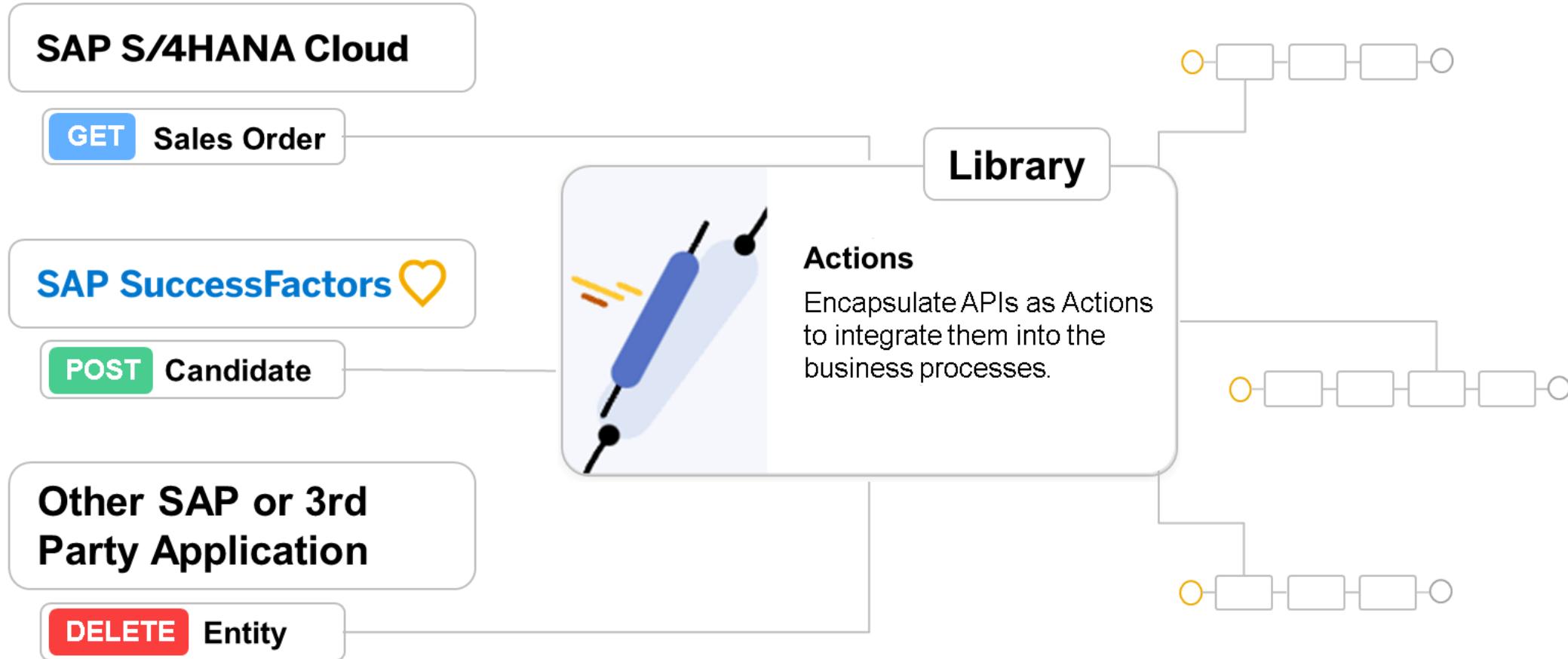
Can be reused across different business process projects

Actions project allows versioning

Rely on OpenAPI specification

- Not limited to SAP APIs

Actions Project



Actions Project creation and usage steps

Create an Actions project:

- encapsulate APIs in Actions project
- publish Actions project to the library

Use it in your process: select it from the library and define its parameters:

- Destination variable: A process variable that will hold the technical SAP BTP destination name to be used for accessing the underlying API at process runtime. This variable can be filled with a destination name during deployment of the process.
- Inputs: Mapping of process content to all parameters, that the action requires in order to be performed (for example, the *Sales Order Number*, when retrieving a *Sales Order* entry from an SAP S/4HANA system).
- Outputs: Overview of the Actions call result, as defined in the respective action.

Find existing actions

Browse library

Search Sort by Artifact Name: Ascending

Action Type Projects Line Of Business Products

All (13)

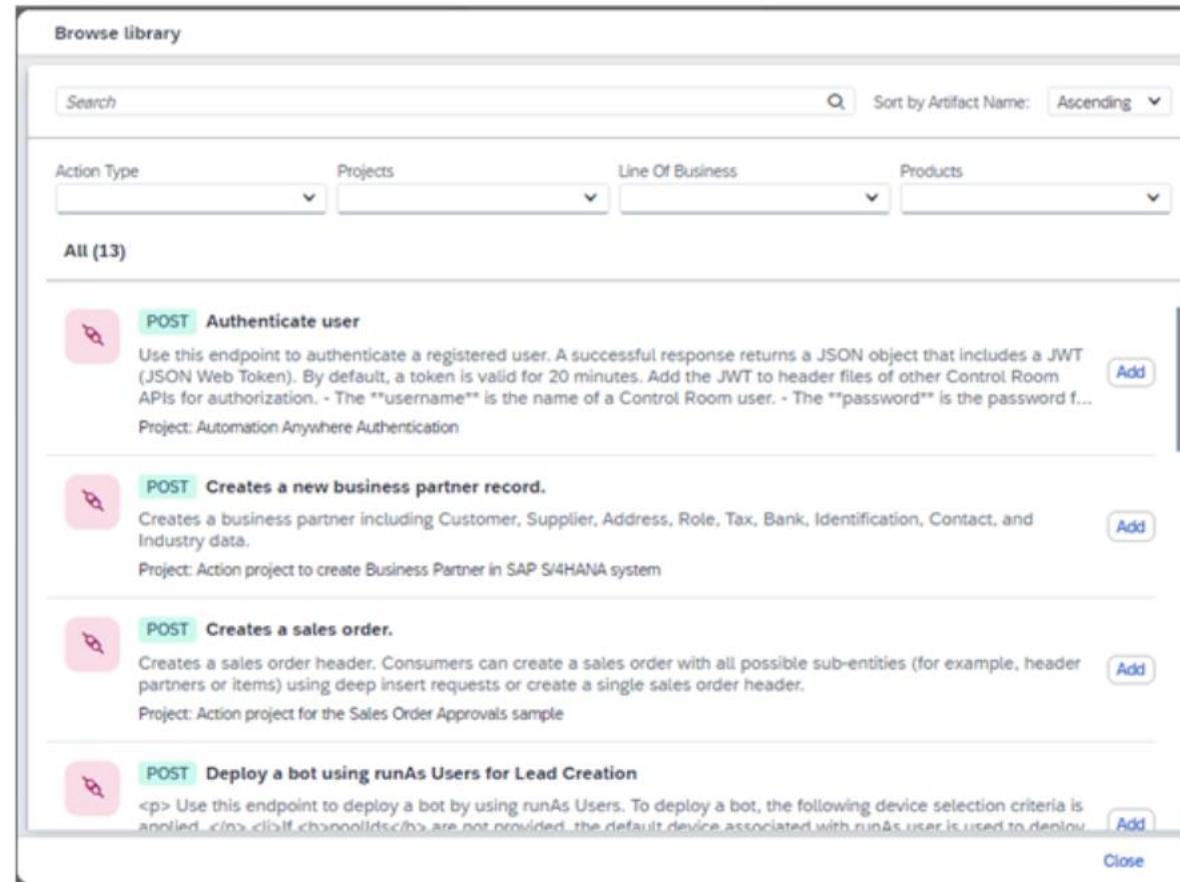
POST Authenticate user
Use this endpoint to authenticate a registered user. A successful response returns a JSON object that includes a JWT (JSON Web Token). By default, a token is valid for 20 minutes. Add the JWT to header files of other Control Room APIs for authorization. - The "username" is the name of a Control Room user. - The "password" is the password f...
Project: Automation Anywhere Authentication [Add](#)

POST Creates a new business partner record.
Creates a business partner including Customer, Supplier, Address, Role, Tax, Bank, Identification, Contact, and Industry data.
Project: Action project to create Business Partner in SAP S/4HANA system [Add](#)

POST Creates a sales order.
Creates a sales order header. Consumers can create a sales order with all possible sub-entities (for example, header partners or items) using deep insert requests or create a single sales order header.
Project: Action project for the Sales Order Approvals sample [Add](#)

POST Deploy a bot using runAs Users for Lead Creation
<p> Use this endpoint to deploy a bot by using runAs Users. To deploy a bot, the following device selection criteria is applied. If no device IDs are provided, the default device associated with runAs user is used to deploy the bot. </p>

[Close](#)



Create a new action project

The screenshot shows the SAP Business Accelerator Hub interface. On the left, there's a sidebar with 'Lobby', 'Connectors' (with 'Actions' selected, indicated by a red circle with '1'), and 'Events'. The main area is titled 'All Actions' with a search bar. It displays 12 items in a table with columns for Name, Versions, Members, and Options. A 'Create' button is visible at the top right. A red circle with '2' is placed over the 'Create' button.

This section is titled 'SAP Business Accelerator Hub' and contains two options: 'Choose an API specification from a list of standard APIs available in the Business Accelerator Hub.' and 'Upload API Specification' (which allows uploading OpenAPI or OData files).

This section is titled 'Build from Scratch' and says 'Manually define actions with custom specifications.' A red circle with '3' is placed near the text 'Multiple choices available... Few listed here'.

This is a form for creating a new project. It includes fields for 'Project Name:' (marked with a red circle '4') and 'Description:', both with placeholder text. At the bottom are 'Create' and 'Cancel' buttons, and a 'Back' link.

Give your project a name

Project Name:*

Description:

Back

Create Cancel

Create Destination on BTP

Destination Configuration

Name: * SalesOrderS4Sandbox

Type: HTTP

Description: Destination for SAP Business Accelerator Hub Sandbox API for...

URL: * <https://sandbox.api.sap.com/s4hanacloud/sap/opu/odata/sap/A...>

Proxy Type: Internet

Authentication: NoAuthentication

Additional Properties

New Property

HTML5.Dynami...	true	
sap.build.usage	odata_gen	
sap.processaut...	true	

sap.processautomation.enabled MUST be set to true

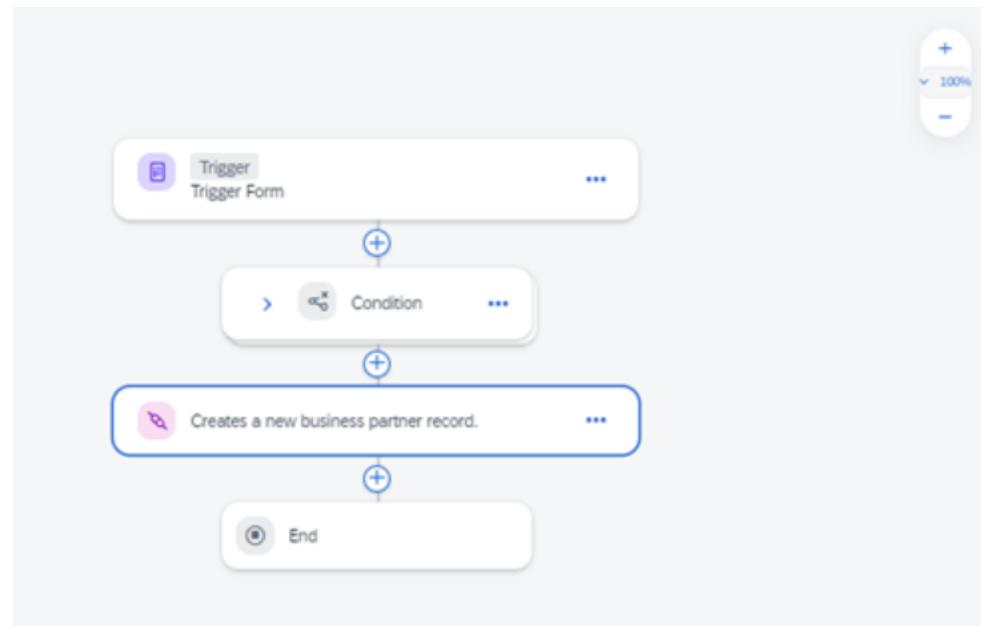
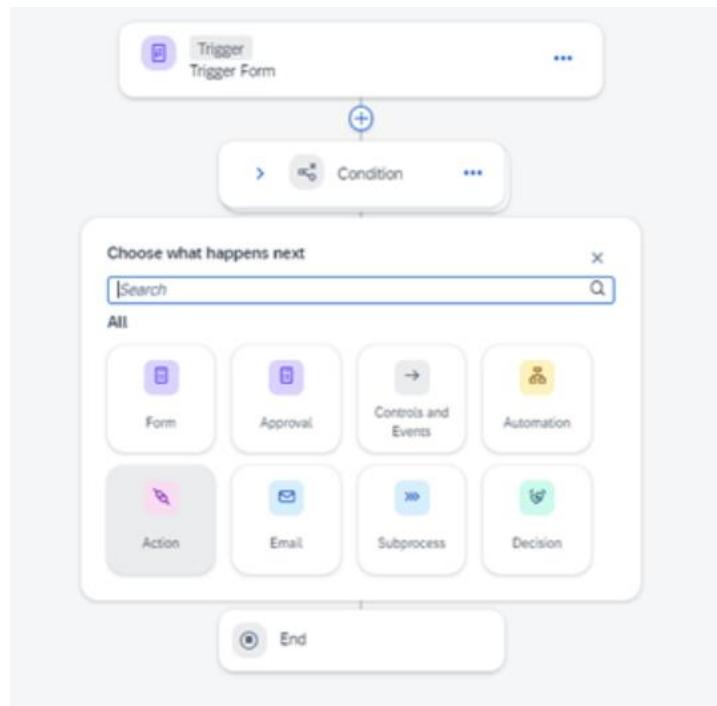
Use default JDK truststore

Add Destination to SBPA

The screenshot illustrates the process of adding a destination to the SAP Backend Platform (SBPA). It consists of two main parts:

- Top Panel (Control Tower / Destinations):** Shows the Destinations list with three entries: ES5, ES5_Milton, and fakeAPI. The fakeAPI entry is selected, indicated by a cursor over its "1 Environment" link. A red circle with the number 3 is positioned above the "Actions" column for this row.
- Bottom Panel (API Details):** Provides detailed information for the fakeAPI destination. It includes:
 - Actions (1):** A list containing a single GET action labeled "Reads the header of a sales order".
 - Description:** "Reads the header of a sales order. Consumers must pass the sales order ID (key field)."
 - HTTP Method:** GET
 - URL:** /A_SalesOrder('{SalesOrder}'')
 - Test Tab:** The "Test" tab is currently selected.
 - Connectivity:** Host*
 - Destination
 - Manual
 - Destination:** S4U_BUILD
 - Test Input Values:** A section for testing input values.

Use action in process



This dialog box is titled 'Creates a new business partner record.' It has tabs for General, Inputs, and Outputs, with 'General' selected. The 'Step Name:' field contains 'Creates a new business partner record.' The 'Destination variable:' field is set to 'publ'. Under 'Run step on behalf of', there is a note to 'Select process participant from step:' followed by a placeholder 'Click to select user source from step'. At the bottom, there is a link to 'Securely interact with an external system using the permission of a defined process participant. Open Documentation'.

Sample use case

Business Scenario

- You and your colleagues are building a process that needs to read Sales Order data from your SAP S/4HANA system

https://api.sap.com/api/API_SALES_ORDER_SRV/overview

