

Unit 6 – SAP Process Automation

Certification: [C_LCNC_01](#)

Low-Code / No-Code Applications

Getting started with SAP Process Automation

Pre-requisites

- Setting up SAP Process Automation using the Booster
- Install and setup desktop agent

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

SAP Intelligent Robotic Process Automation: Desktop Components for Trial

SAP Intelligent Robotic Process Automation is a hybrid solution made of three components:

- Desktop Studio for designing the automation processes
- Cloud Factory trial tenant for orchestrating the automation
- Desktop Agent for executing the automation

Find below the desktop components, i.e. Desktop Studio and Desktop Agent, that are required to design and execute your bots.

For more information on how to install and set up these desktop components, see the [documentation](#).

| Operating System | Version | File Size | Download |
|------------------|------------|-----------|---|
| Windows (x86_64) | 2.0.18.63 | 324.3 MB | sap-intelligent-roa-2.0.18.63.msi (sha1) |
| Windows (x86_64) | 2.0.19.50 | 324.3 MB | sap-intelligent-roa-2.0.19.50.msi (sha1) |
| Windows (x86_64) | 2.0.20.91 | 324.3 MB | sap-intelligent-roa-2.0.20.91.msi (sha1) |
| Windows (x86_64) | 2.0.21.103 | 324.3 MB | sap-intelligent-roa-2.0.21.103.msi (sha1) |
| Windows (x86_64) | 2.0.22.91 | 324.3 MB | sap-intelligent-roa-2.0.22.91.msi (sha1) |
| Windows (x86_64) | 2.0.23.85 | 324.3 MB | sap-intelligent-roa-2.0.23.85.msi (sha1) |

More Information

The downloads are provided under the terms of the [SAP DEVELOPER LICENSE AGREEMENT](#).

Getting started with SAP Process Automation

The screenshot displays the SAP Service Marketplace interface. On the left, the navigation menu includes 'Overview', 'Services', 'Service Marketplace', 'Instances and Subscriptions' (highlighted), 'Cloud Foundry', 'HTML5 Applications', 'Connectivity', 'Destinations', 'Cloud Connectors', 'Security', 'Users', 'Role Collections', 'Roles', 'Trust Configuration', 'Settings', 'Entitlements', 'Usage Analytics', and 'Help and Support'. The main content area is titled 'Subaccount' and shows a list of subscriptions. The 'Subscriptions (12)' tab is selected, displaying a table of applications to which the 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 | |

Introducing SAP Process Automation

Important new tool for Hyperautomation

- SAP Process Automation
- Business Process expert can digitize your workflows using LCNC

Things to consider for Business Automation



Rapidly changing,
very volatile market
conditions



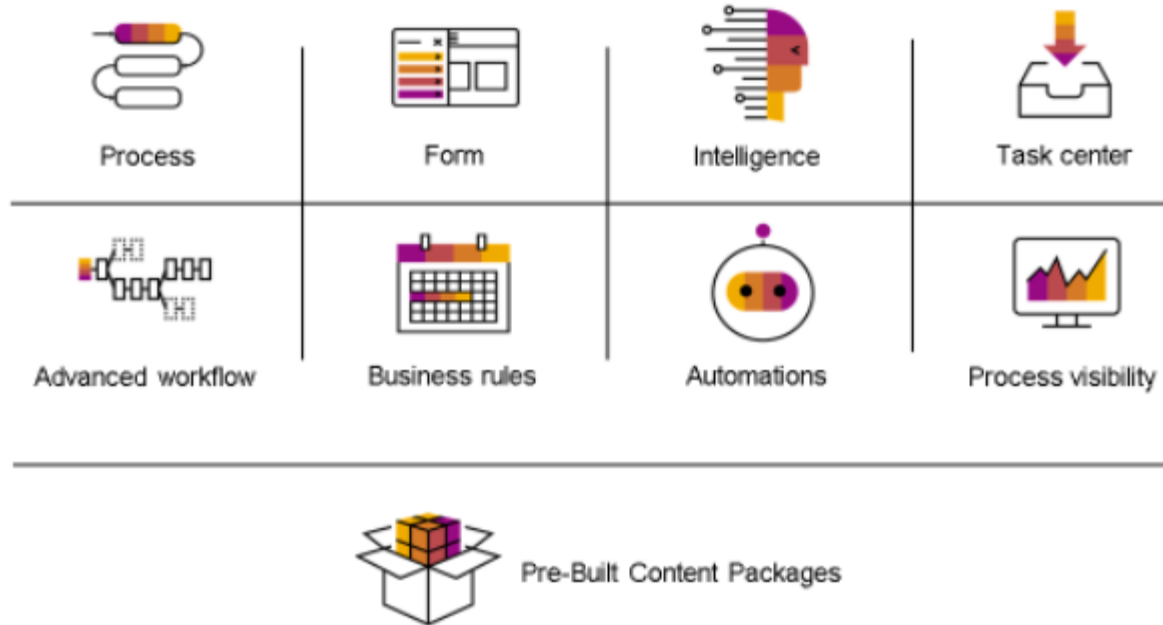
Being connected
to the relevant
business applications



Acquire the tools that will
let you deliver a solution
yourself

Introducing SAP Process Automation

SAP Process Automation



Process: ability to create processes using drag and drop tools

Advanced workflow: reuse workflows from SAP Workflow Management

Form: view information, approve and reject requests

Business rules: include policies in the process flow

Intelligence: make use of some ML

Automations: use RPA for automations

Process visibility: monitor performance of processes

Task center: one inbox to handle all the tasks

Content: pre-built, directly usable packages

Introduction to SAP Process Automation



Simplify automation



Automate faster



Operate confidently

Use cases for automation

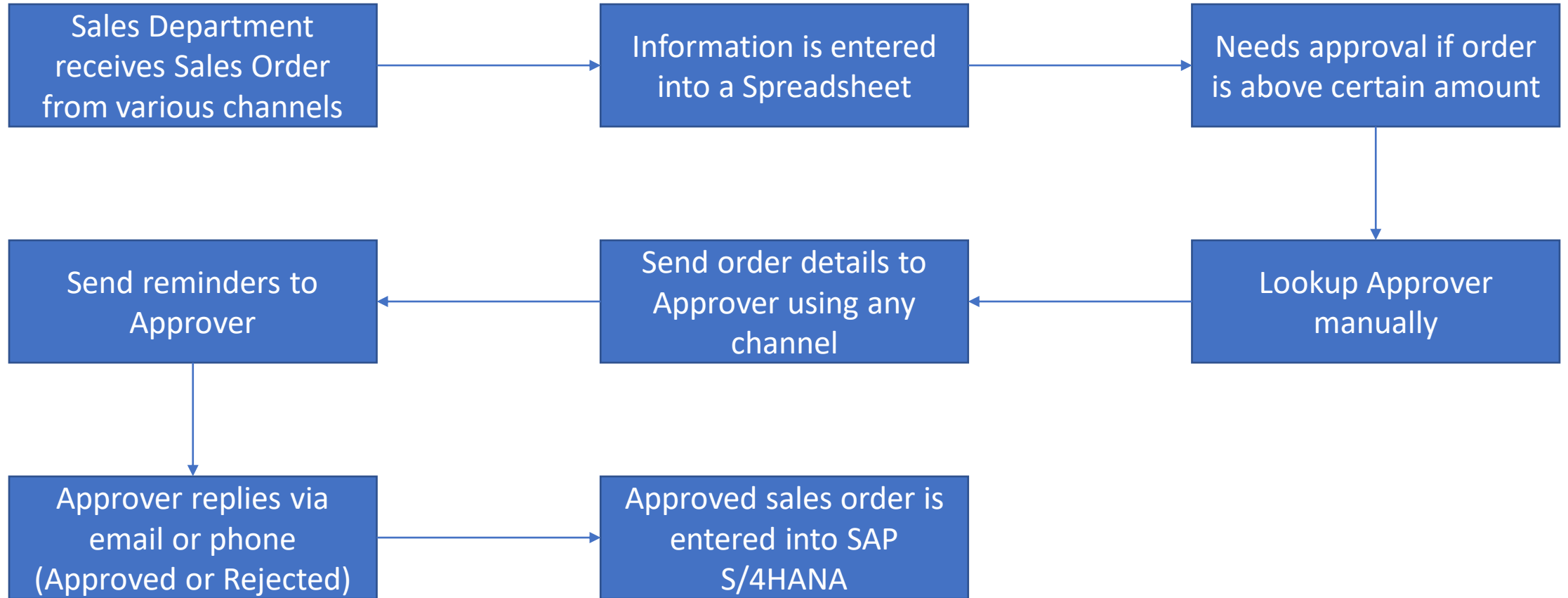
Lead-to-cash – for example, capital expenditure approvals, invoice approvals, account opening.

Hire-to-retire — for example, relocation, visa permits, HR employee self-services, managing contingent workers.

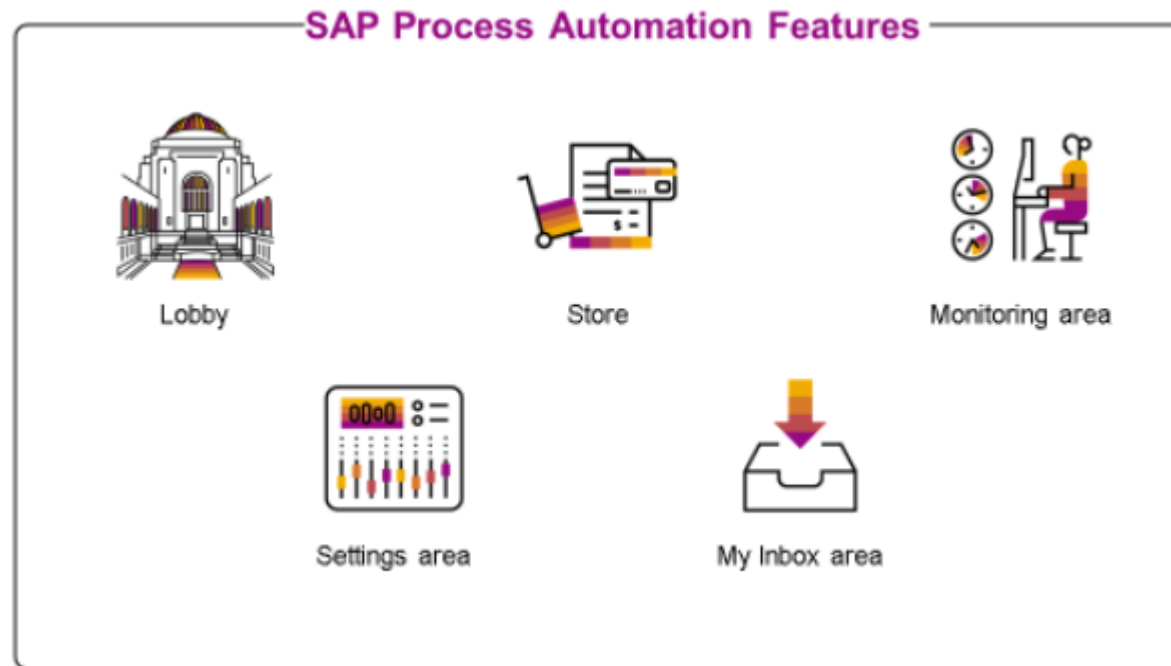
Design-to-operate – for example, updating master data records, document approval, lead generation workflows.

Source-to-pay – for example, return order process, incident management, procurement data collection.

Sales Order Management Approval



SAP Process Automation Features



SAP 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

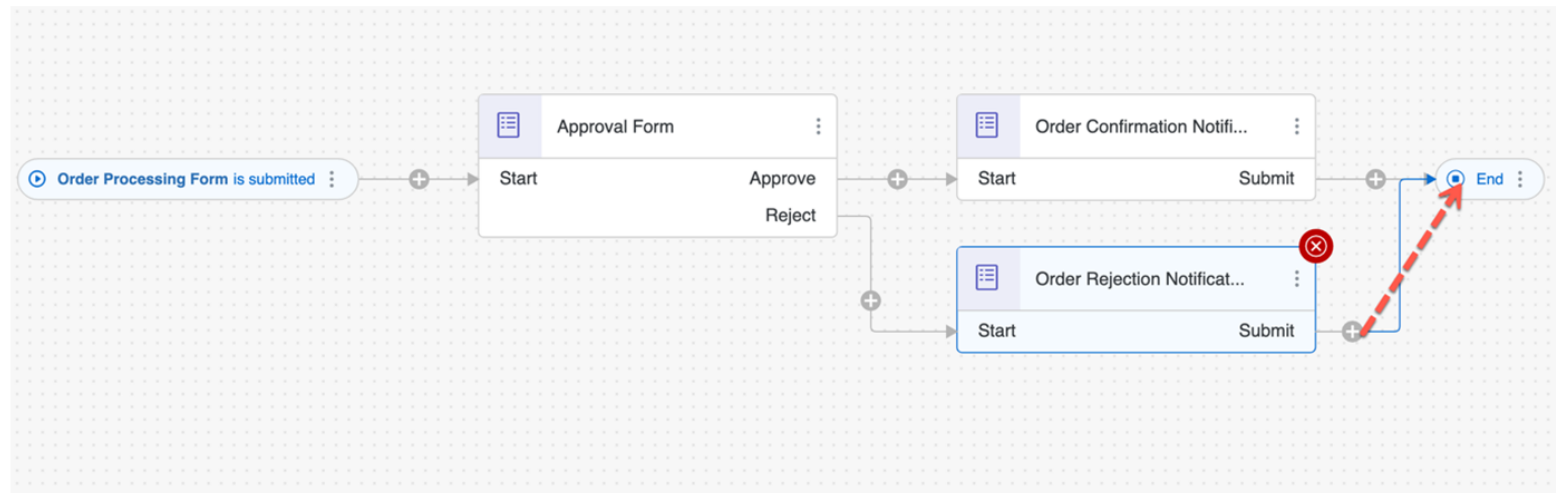
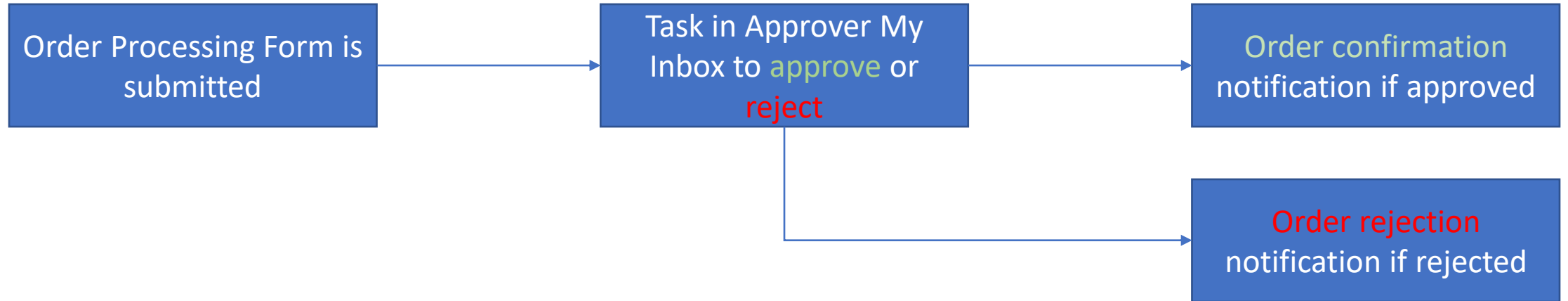
Settings

- Configure and manage desktop agents, backend settings, API keys

My Inbox

- Displaying processing your tasks

Get started with a Business Process



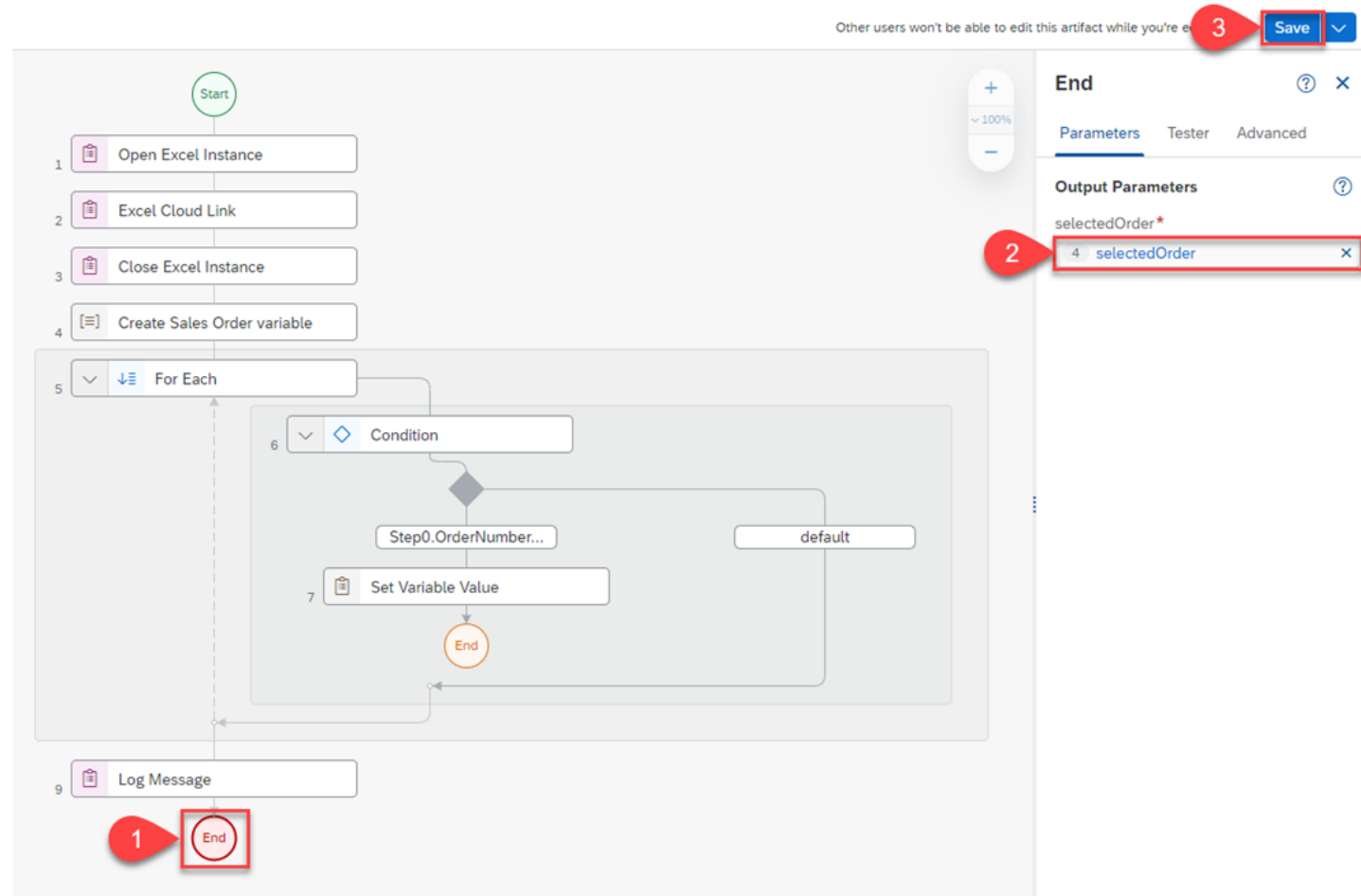
Steps involved

- Create 4 forms
 - Order Processing Form
 - Approval Form
 - Order Confirmation Notification Form
 - Order Rejection Notification Form
- Connect them all together

Boosting Business Process with Automation



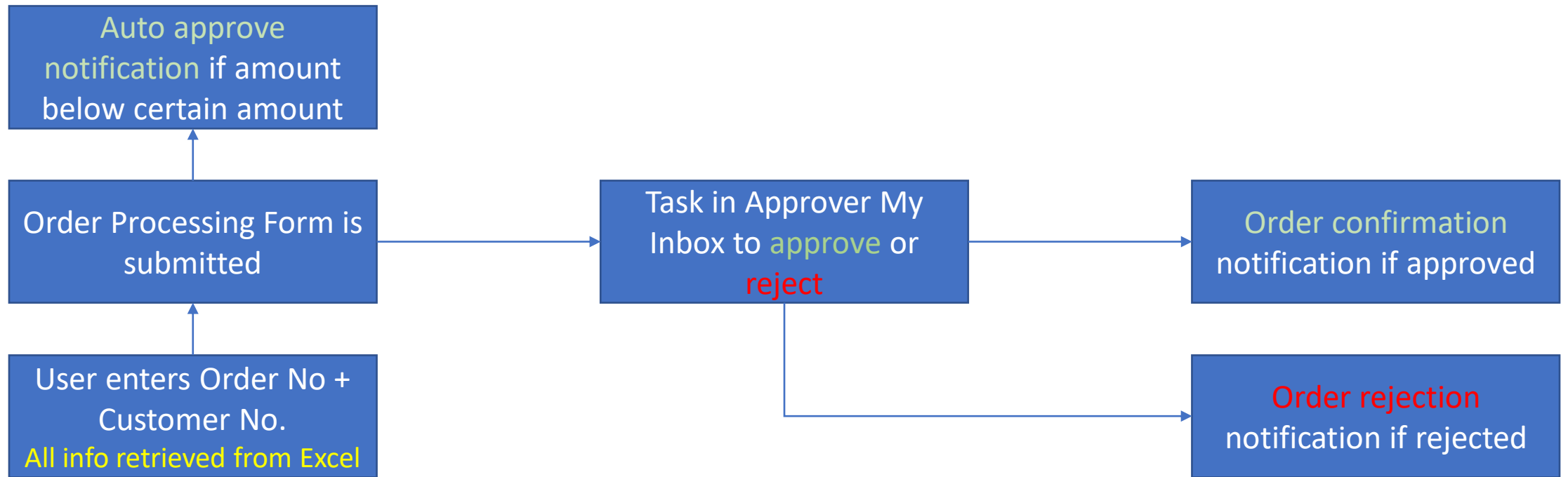
Boosting Business Process with Automation



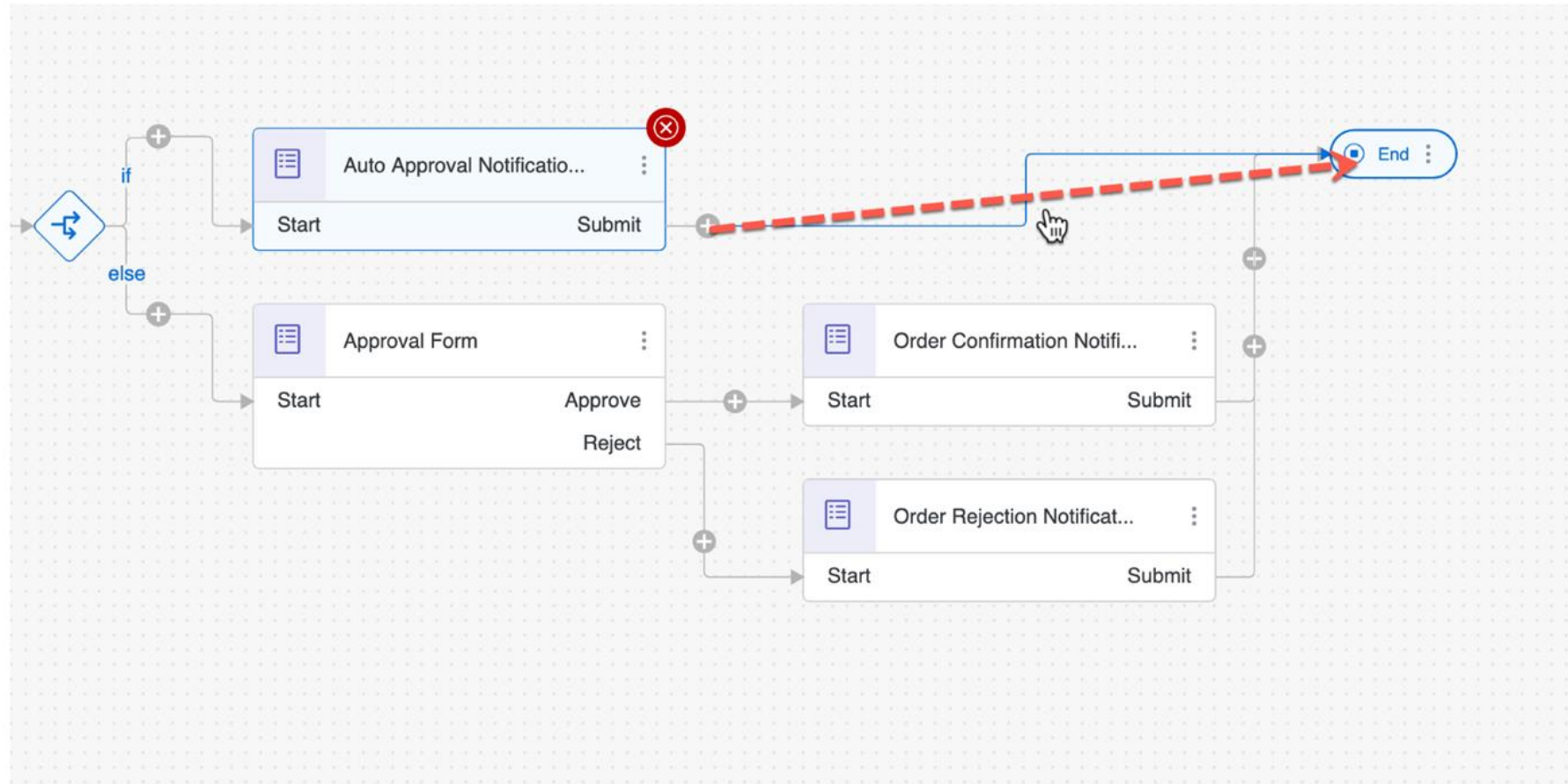
Steps involved

- 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

Controlling the flow



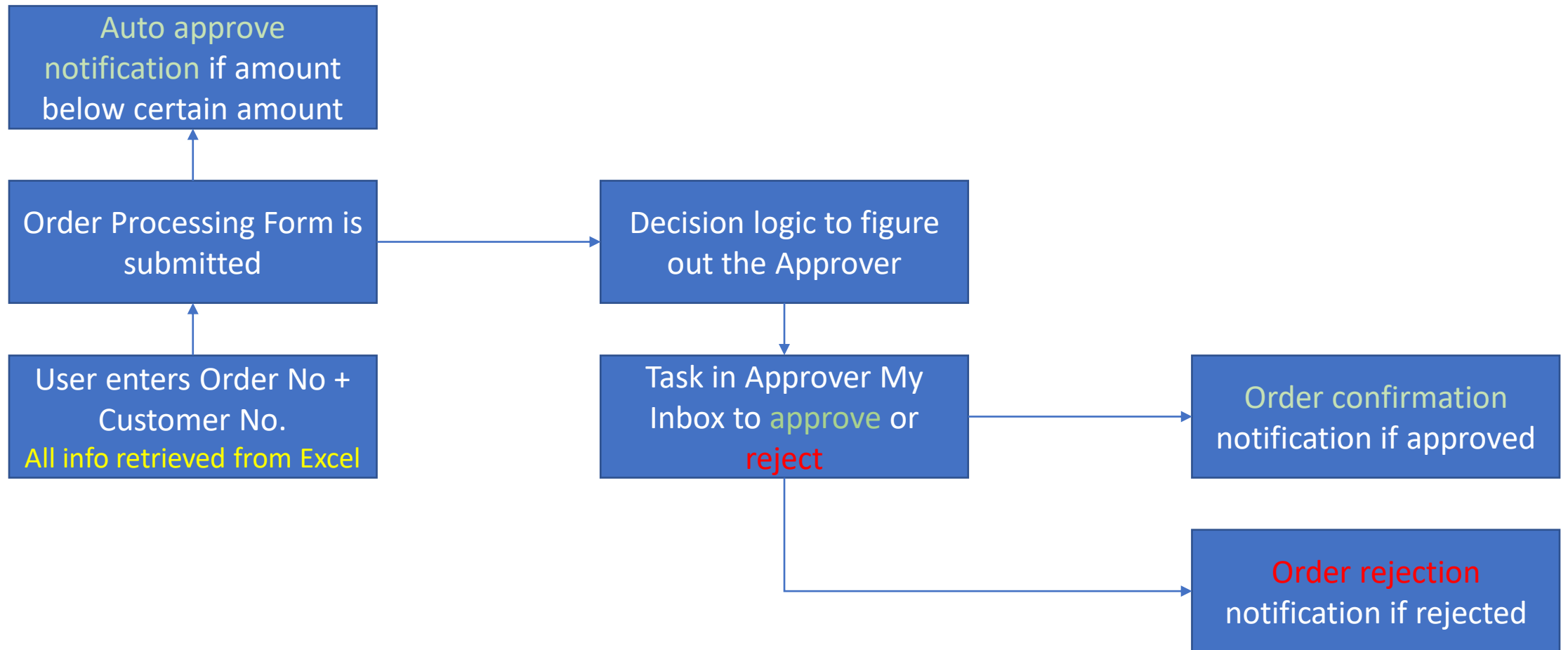
Controlling the flow



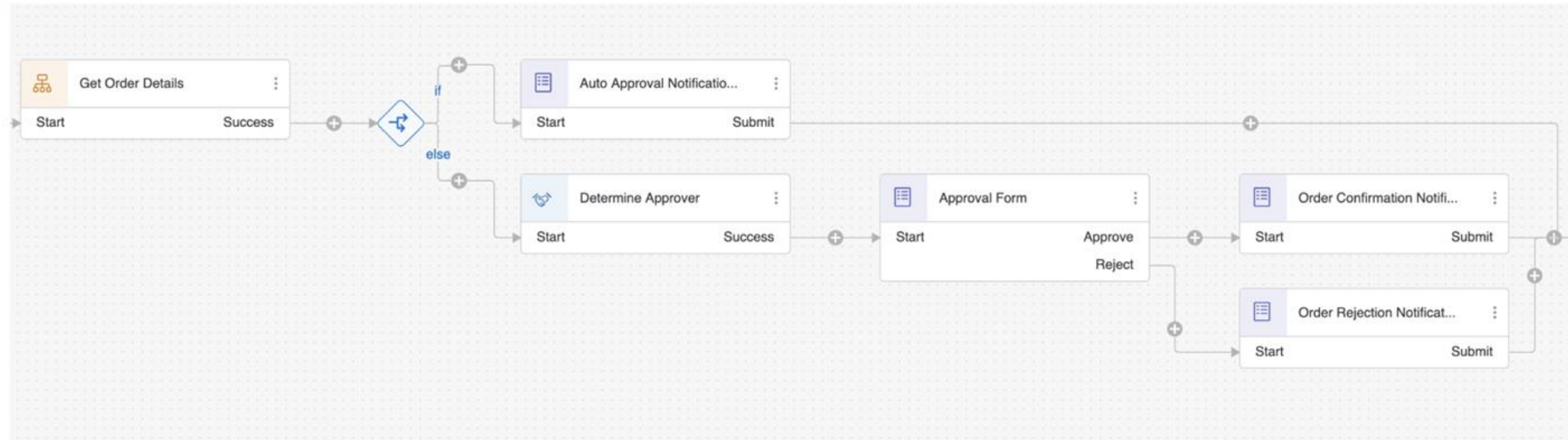
Steps involved

- Add new condition
 - Criteria: Order amount < 100000
 - If **true** – New automatic approval form

Improving the process with decision logic



Improving the process with decision logic



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)

| Shipping Country | Order Amount | User Group | Email |
|------------------|----------------------------|------------|---------------------------|
| India, Germany | Between 100,000 to 300,000 | A | milton.chandradas@sap.com |
| | Greater than 300,000 | B | milton.chandradas@sap.com |

Release, Deploy and Run the Business Process

The image shows a 'Release Project' dialog box overlaid on a process page. The dialog box has a title bar 'Release Project' and contains the following fields:

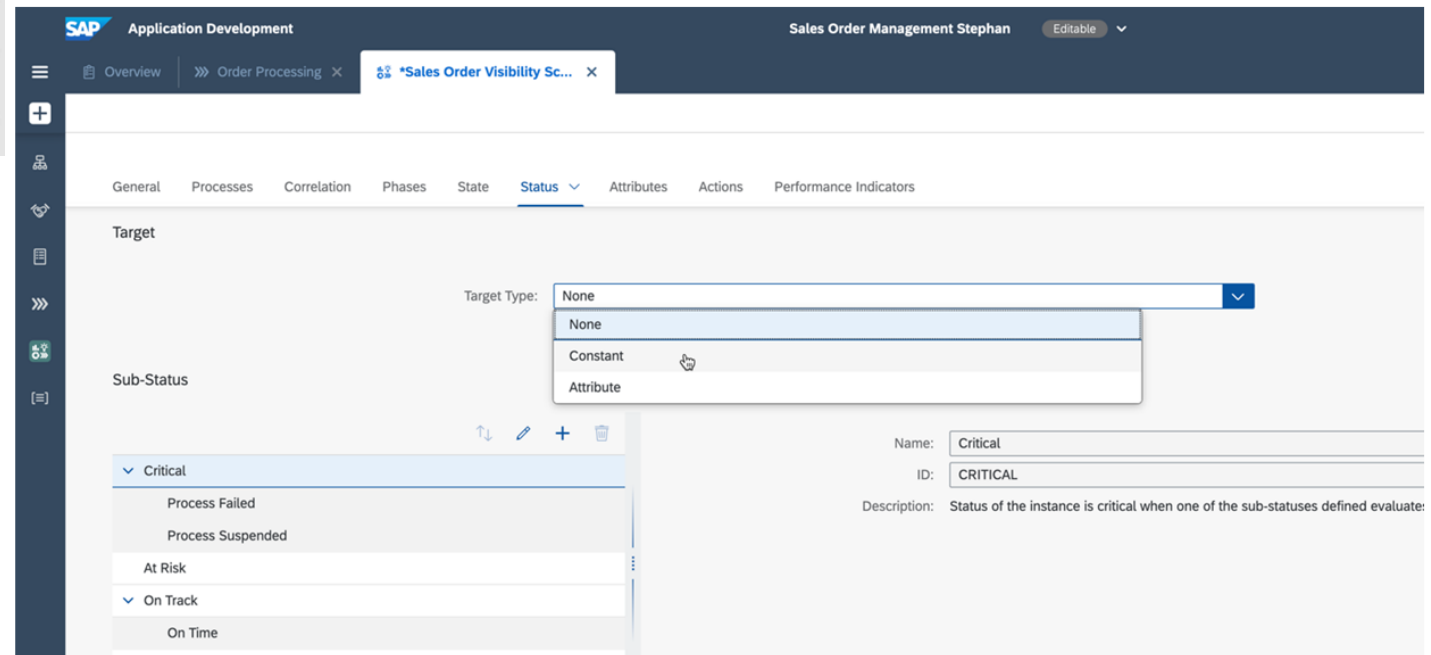
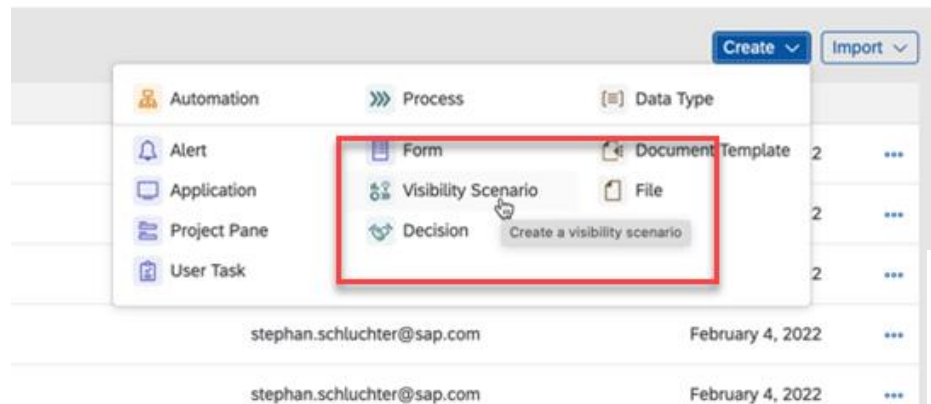
- Version:** Three radio buttons: 'Contains only patches' (unselected), 'Contains minor changes' (selected), and 'Contains significant changes which may impact dependent projects' (unselected).
- Version Number:** A text input field containing '1.3.0'.
- Version Comment:** A text area containing 'added decision to the process and adapted the process'.
- Optimize for faster execution:** A checkbox that is unchecked, with a link 'click here'.
- Buttons:** 'Release' and 'Cancel' at the bottom right.

The background process page is titled 'Sales Order Management' and has tabs for 'General' and 'Visibility'. The 'General' tab is active, showing a 'Process name' field with the value 'Sales Order Management'. A 'Release' button is highlighted with a red box in the top right corner of the process page.

The image shows the process release and deployment status. The process name is 'Sales Order Management' and the version number is '1.3.0'. The status is 'Released'. A 'Deploy' button is highlighted with a red box. Below the process name, the status 'Released' is also highlighted with a red box. At the bottom, there is a table with columns for 'Last updated on', 'Created on', and 'Description'.

| Last updated on | Created on | Description |
|-----------------|---------------|-------------|
| March 10, 2022 | March 9, 2022 | |

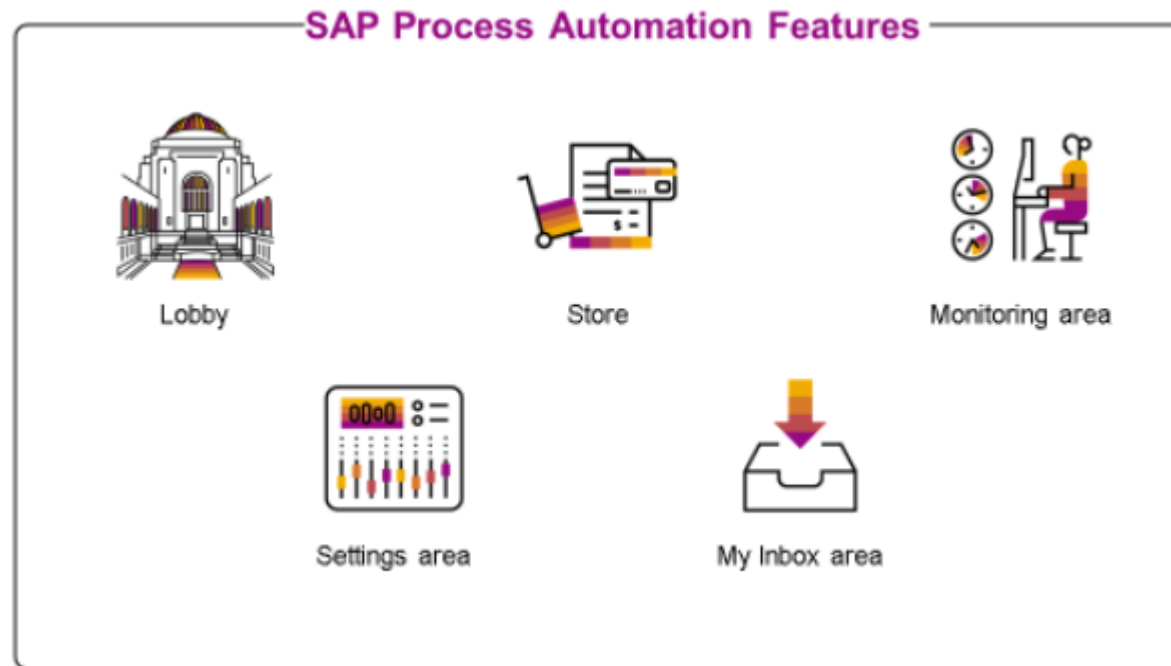
Getting visibility into your process



What have we learned so far

- Introduction to SAP Process Automation
- Workflows, Forms
- Automation
- Monitoring

Key Summary Points – Unit 6



Key Summary Points – Unit 6

Lobby

- Create, manage, deploy business processes

Store

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

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- View and manage specific processes, automation jobs

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- Configure and manage desktop agents, backend settings, API keys

My Inbox

- Displaying processing your tasks

Key Summary Points – Unit 6

Q2. What do you have to verify before you run a business process that contains one automation or more in it?

A The Integration of a chatbot with your business process

B The configuration of an email server

☒ C The Desktop Agent settings and registration

D The complete installation of a web server

☒ Correct

Correct. You need to verify the Desktop Agent settings and registration, before you run a business process that contains one automation or more in it.

Key Summary Points – Unit 6


Q4. Where can an end user work on forms?

A Process Workspace

 My Inbox

C Monitor Workflow Application

D ChatBot

 Correct

Correct. End users can work on forms in My Inbox.

Key Summary Points – Unit 6

Q1. In what ways can forms be used?

- ☐ A For sending email
- ☒ For approving a sales order
- ☒ For sending notification to requestor
- ☐ D For accessing automation

☒ Correct

Correct. Forms can be used for approving a sales order and for sending notification to requestor.

Order Processing Form
Approval Form
Order Confirmation Notification Form
Order Rejection Notification Form

Key Summary Points – Unit 6

Q8. What are the benefits of using forms?

- ☒ Quick, simple, and easy way to create interactive UI
- ☐ B Create documents for process
- ☒ One layout, one access and traceable action
- ☒ Streamline approvals in the business process
- ☐ E Send email templates to users

☒ Correct

Correct. One benefits of using forms is that it is a quick, simple and easy way to create interactive UI. Other benefits of using forms are that you only have one layout, one access and traceable action, and a streamline approvals in the business process.

Key Summary Points – Unit 6

Q5. What do have to do in the Business Process after the design of your automation?

- ☐ A Add a chatbot into your business process
- ☒ B Verify and map the inputs and outputs of the artifacts including the designed automation
- ☐ C Check for task in the Inbox
- ☐ D Develop a custom script in javascript to achieve the integration

☒ Correct

Correct. After the design of your automation, you have to verify and map the inputs and outputs of the artifacts including the designed automation in the Business Process.

Key Summary Points – Unit 6

Q6. Which configurations are necessary for Process Conditions?

- ☒ Add a condition to the process
- ☐ B Map the condition input with process content
- ☒ Configure If and else conditions
- ☒ Define the process flow for different conditional paths
- ☐ E Add environment variables

☒ Correct

Correct. The following configurations are necessary for Process Conditions: Add a condition to the process, Configure If and else conditions and Define the process flow for different conditional paths.

Key Summary Points – Unit 6

Q7. What are different components of **Decisions**?

☒ Input data object

☒ Decision table

☐ C Form

☒ Decision diagram

☐ E Business Logic

☒ Correct

Correct. Input data object, Decision table and Decision diagram are different components of Decisions.

Key Summary Points – Unit 6

Q9. Which steps will you take while designing a decision?

- ☐ A Create policy, configure rule service, and add rules.
- ☒ B Create decision, create data object, and configure input & output.
- ☐ C Integrate decision with process using API.
- ☒ D Create decision table rules, configure settings, and add rows

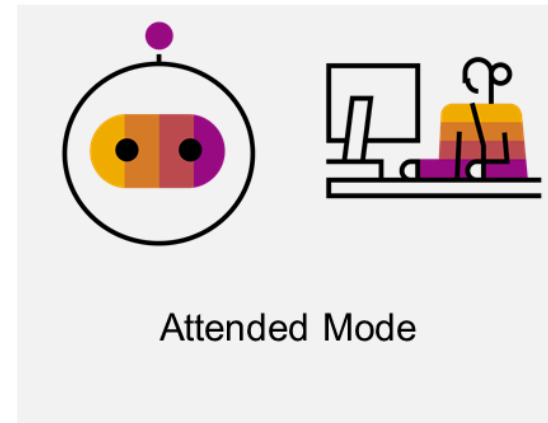
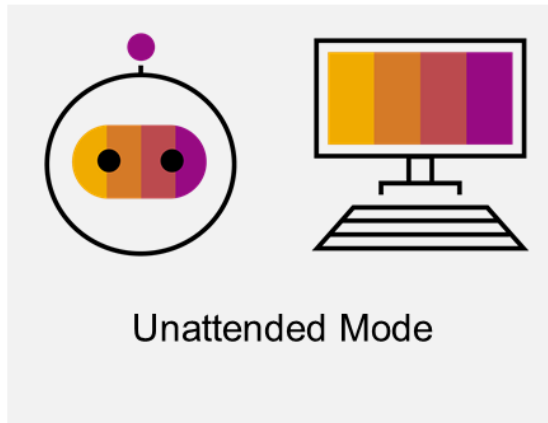
☒ Correct

Correct. While designing a decision you will take the following steps: Create policy, configure rule service, and add rules, as well as create decision table rules, configure settings, and add rows.

Key Summary Points – Unit 6

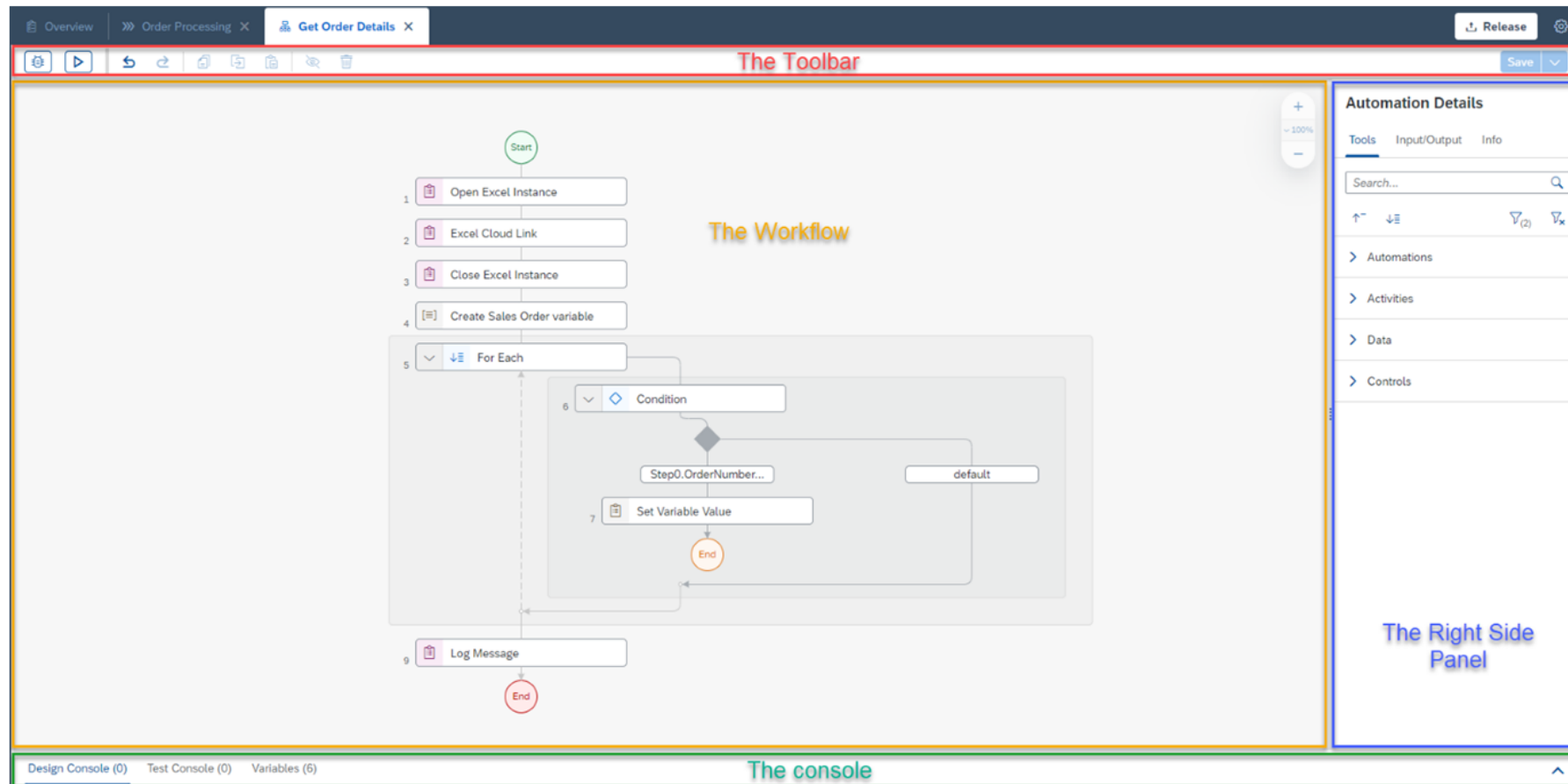
SAP Robotic Process Automation services are delivered in 2 ways

- Unattended Mode
- Attended Mode



Key Summary Points – Unit 6

Automation Editor



Key Summary Points – Unit 6

Overview

>>> Phase 4

Sales Order Visibility Sce...

General

Processes

Correlation

Phases

State

Status

Attributes

Actions

Performance Indicators

Target

Target Type: Constant

Target Value: 0 Days 0 Hrs 10 Min

Threshold: 50 %

Critical if process takes more than 10 min

At Risk if process takes more than 5 min (50% of 10 min)

Sub-Status

↑↓ ✎ + 🗑

▼ Critical

Process Failed

Process Suspended

Overdue

▼ At Risk

Threshold Violation

▼ On Track

On Time

▼ Completed with violations

Name: Critical

ID: CRITICAL

Description: Status of the instance is critical when one of the sub-statuses defined evaluates to true.

Key Summary Points – Unit 6

Use cases for automation

- Lead-to-cash
- Hire-to-retire
- Design-to-operate
- Source-to-pay