

Test Script

CUSTOMER

Intelligent RPA Content

SAP S/4HANA

June 2021

SAP Intelligent RPA – Automating Payment Plan Update

TCODE: EK93

Document History

Revision	Change Date	Description
1.0	June 2021	Document Created

1 Prerequisites

This section summarizes all the prerequisites for conducting the test in terms of systems, users, master data, organizational data, other test data, and business conditions.

1.1 System Access

Details	
SAP on-premise	Accessible via SAP GUI. Your system administrator will provide you with the system configuration to access the various utility-based T-codes assigned to your role.

1.2 Roles

Assign the following business role to your individual test users.

 Note

The following role is provided as an example role from SAP. You can use these as templates to create your own roles.

Business Role
Billing Specialist/Payments Specialist/Customer Relationship Manager

1.3 Master Data, Organizational Data, and Other Data

Below table provides detailed information on the input and output data. (ADD POPUP INPUT AND OUTPUTS if any)

Input Data	Sample Value	Details
PaymentPlan	250000018	The Payment Plan number generated when the Contract account is created.
Amount	789	The Amount to be changed/updated in the selected payment plan.

1.4 Cloud Factory Manual Configuration

- The following table provides the details of Cloud Factory variables required to be created to execute the bot.

Variable Name	Type	Sample Value	Description
credentials	Credential	User: COMM_USER_**** Password: *****	To store the User credentials (communication users and password) for the respective system.

i Note

- o To add credentials and other variables in the Cloud factory, see [Add Environment Variables from the Cloud Studio](#) for more details.
- To execute the bot in attended mode, the user must create a Tigger in the Cloud Factory, and then set the mode of the Desktop Agent to "Attended" by following the step-by-step procedure:
 1. Click on the System Tray.
 2. Click on Projects and Select **Interactive (Attended)** from the dropdown.
 3. Restart your Agent

1.5 Business Conditions

Before you can test this scope item, the following business conditions must be met.

Scope Item ID	Business Condition
SAP GUI	SAP GUI Desktop should be present
Desktop agent	Refer the Desktop Agent User Guide to run the bot using SAP Intelligent RPA Desktop Agent.
Tenant Configuration	Configure Tenant to connect the agent to Cloud Factory.

1.6 Bot Execution

1. Go to the respective Cloud Factory and check the package has been imported or not.
2. In Cloud Factory Environment, add the variables and set the Trigger to Attended mode.
3. Search for Desktop Agent on Windows search and execute it.
4. Open Desktop Agent and click **Projects**.
5. In the **Projects** window, click the **Start** button next to the bot's name '**Utilities-EK93-Change Payment Plan**', and click OK to confirm.

The Desktop Agent restarts to fetch the package.

6. From the Desktop Agent window, select the '**Change Payment Plan - EK93**' scenario.

A pop-up window appears.

7. In the pop-up window, enter the **payment plan number and amount** to be updated. Refer section 1.3 for sample inputs.
8. After providing the appropriate input the project starts running, and the payment plan is successfully updated.

Result

- Bot updates the Payment Plan.
- In the Cloud Factory, go to [Monitoring](#) > [Jobs](#) to monitor the status.

2 Overview Table



This scope item consists of several items provided in the table below.

Items	Business Role	Scenario/Transaction	Expected Results
Execute the bot (Successful Execution)	Billing Specialist/Payments Specialist/Customer Relationship Manager	'Utilities-EK93-Change Payment Plan' bot	The Amount is updated in the payment plan.
Execute the bot (Unsuccessful-Invalid User Credentials)	Billing Specialist/Payments Specialist/Customer Relationship Manager	'Utilities-EK93-Change Payment Plan' bot	Bot will fail at login screen of SAP. After the execution, errors below can be seen in the Cloud Factory: "Failed Detail: Timeout waiting for: sAPEasyAccess Exception: irpa_core.error.Timeout"
Execute the bot (Unsuccessful-If the number of GUI sessions opened exceeds five)	Billing Specialist/Payments Specialist/Customer Relationship Manager	'Utilities-EK93-Change Payment Plan' bot	Bot will be failed since user cannot open more than 6 GUI sessions at once. After the execution, below error logs can be seen in the Cloud Factory: "Failed Detail: Timeout waiting for: sAPEasyAccess Exception: irpa_core.error.Timeout"
Execute the bot (Unsuccessful-Invalid Inputs)	Billing Specialist/Payments Specialist/Customer Relationship Manager	'Utilities-EK93-Change Payment Plan' bot	Bot will be failed since user cannot open more than 6 GUI sessions at once. After the execution, below error logs can be seen in the Cloud Factory: "Failed Detail: Timeout waiting for: changePaymentPlan Exception: irpa_core.error.Timeout"

3 Test Procedures

This section describes the test procedures for each process step that belongs to this scope item.

In the case of Attended version, below steps must be performed first to trigger the bot.

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
1.	Run the Desktop Agent	Search for a "Desktop Agent" on windows search and execute it.	 This icon will appear on the taskbar.	
2.	Select the bot to run	 Click on this icon in the taskbar to open the list of bots available for your machine. Select the 'Utilities-EK93-Change Payment Plan' bot.	Bot execution starts	

3.1 Execute the Bot (Success Test)

Test Administration

Test Case ID	1	Tester Name		Testing Date	
Business Role(s)	Billing Specialist/Payments Specialist/Customer Relationship Manager				
Responsibility				Duration	

Purpose

To Update the Amount of the Payment Plan.

Procedure

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
1.	Ensure the bot is scheduled	1. Go to the respective Cloud Factory and check the package is imported or not. 2. Deploy the package to the required environment. 3. Add a trigger to the deployment.	The package is being imported and the bot is scheduled for the run.	This is a manual step
2.	After successful execution	In Cloud Factory, go to Monitoring > Jobs and check the status for the respective job.	The Amount of the payment plan is updated. After the execution, status becomes successful in the cloud factory.	This is a manual step

3.2 Execute the Bot (Unsuccessful – Invalid User Credentials) Test Administration

Test Case ID	2	Tester Name		Testing Date	
Business Role(s)	Billing Specialist/Payments Specialist/Customer Relationship Manager				
Responsibility	Check on credentials			Duration	

Purpose

To check whether the bot is responding with proper error message when incorrect credentials are given.

Procedure

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
1.	Ensure the bot is deployed and a trigger is added.	1. Go to the respective Cloud Factory and check the package is being imported or not. 2. Deploy the package to the required environment. 3. Add a trigger to the deployment.	The package is being imported and the bot is scheduled for the run.	This is a manual step

2.	Update the Factory Variables to have Incorrect Credentials	Go to Cloud Factory, select the environment where this Bot is deployed. Update the Factory Variable credentials to have Incorrect credentials.	The variable is updated.	This is a manual step
3.	After unsuccessful execution	In Cloud Factory, go to Monitoring > Jobs and check the status for the respective job.	After the execution, below error logs can be seen in the Cloud Factory: Failed Detail: Timeout waiting for: sAPEasyAccess Exception: irpa_core.error.Timeout	This is a manual step

3.3 Execute the Bot (Unsuccessful – If Number of GUI Sessions opened exceeds five)
Test Administration

Test Case ID	2	Tester Name		Testing Date	
Business Role(s)	Billing Specialist/Payments Specialist/Customer Relationship Manager				
Responsibility	Check the number of GUI sessions already opened.		Duration		

Purpose

To check whether the number of GUI open sessions exceeds six.

Procedure

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
1.	Ensure the bot is deployed and a trigger is added.	1. Go to the respective Cloud Factory and check the package is being imported or not. 2. Deploy the package to the required environment. 3. Add a trigger to the deployment.	The package is being imported and the bot is scheduled for the run.	This is a manual step
2.	Check the number GUI sessions opened	Check whether the number of GUI	The bot fails if more than five sessions are opened.	This is a manual step

		session opened exceeds five.		
3.	After unsuccessful execution	In Cloud Factory, go to Monitoring > Jobs and check the status for the respective job.	After the execution, below error logs can be seen in the Cloud Factory: Failed Detail: Timeout waiting for: sAPEasyAccess Exception: irpa_core.error.Timeout	This is a manual step

3.4 Execute the Bot (Unsuccessful – Invalid Input)

Test Administration

Test Case ID	2	Tester Name		Testing Date	
Business Role(s)	Billing Specialist/Payments Specialist/Customer Relationship Manager				
Responsibility	Check on the inputs.		Duration		

Purpose

To check whether the given inputs are valid or not.

Procedure

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
1.	Ensure the bot is deployed and a trigger is added.	1. Go to the respective Cloud Factory and check the package is being imported or not. 2. Deploy the package to the required environment. 3. Add a trigger to the deployment.	The package is being imported and the bot is scheduled for the run.	This is a manual step
2.	Update the input with invalid format	The input is updated with an invalid format of context.	The bot fails to execute as the input is invalid.	This is a manual step
3.	After unsuccessful execution	In Cloud Factory, go to Monitoring > Jobs and check the status for the respective job.	user cannot open more than 6 GUI sessions at once. After the execution, below error logs can be seen in the Cloud Factory: "Failed Detail: Timeout waiting for: changePaymentPlan	This is a manual step

			Exception: irpa_core.error.Timeout"	
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