

Test Script
Intelligent RPA Content
SAP S/4HANA
June 2021

CUSTOMER

SAP Intelligent RPA – Automating Creation of Payment Plan Process

TCODE: EK92

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 Analyst

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)

Popup Data	Sample Value	Details
Contract Number	6000001131	The Contract Number given by the user, in which the Payment Plan should be Created.
Payment Plan Type	A12	Payment Plan Type – A12 – Indicates it as 12 months plan
Starting Month	6	The Month on which the Payment plan creation is to be started. The field accepts the Single Number which specifies the month number.

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

- 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:
 - Click on the System Tray.
 - Click on Projects and Select [Interactive \(Attended\)](#) from the dropdown.
 - 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

Go to the respective Cloud Factory and check the package has been imported or not.

- In Cloud Factory Environment, add the variables and set the Trigger to Attended mode.

2. Search for Desktop Agent on Windows search and execute it.
3. Open Desktop Agent and click [Projects](#).
4. In the [Projects](#) window, click the [Start](#) button next to the bot's name '[Utilities - EK92- Create Payment Plan](#)', and click OK to confirm.
The Desktop Agent restarts to fetch the package.
5. From the Desktop Agent window, select the '[Create Payment Plan – EK92](#)' scenario.
A pop-up window appears.
6. In the pop-up window, enter the **Contract Account number, Payment plan type and starting month** required for payment plan creation. Users must provide all required inputs to run this bot. Refer section 2.3 for sample values.
7. Bot opens the transaction from any session of the SAP Logon, without interrupting user's work (Maximum number of Sessions should be below 6)
8. Bot identifies the transaction code and enter the contract account the user given and creates the Payment plan.

Result

- Bot returns the Payment Plan Number after creating 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 Analyst	'Utilities-EK92-Create Payment Plan' bot	The Payment Plan is created within the given contract number. After the execution, the status can be seen in the Cloud Factory. "Successful"
Execute the bot (Unsuccessful execution- Invalid user credentials)	Billing Specialist/Payments Specialist/Customer Relationship Analyst	'Utilities-EK92-Create Payment Plan' bot	After the execution, error below can be seen in the Cloud Factory: "Failed Detail: Timeout waiting for: sAPEasyAccess Exception: irpa_core.error.Timeout"
Execute the bot (Unsuccessful execution- If the number of GUI sessions opened exceeds five)	Billing Specialist/Payments Specialist/Customer Relationship Analyst	'Utilities-EK92-Create Payment Plan' bot	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 execution – Invalid Payment Plan Number)	Billing Specialist/Payments Specialist/Customer Relationship Analyst	'Utilities-EK92-Create Payment Plan' bot	After the execution, the errors below can be seen in the Cloud Factory: "Failed Detail: Timeout waiting for: createPaymentPlan Exception: irpa_core.error.Timeout"
Execute the bot (Unsuccessful execution – Invalid Payment Plan Type)	Billing Specialist/Payments Specialist/Customer Relationship Analyst	'Utilities-EK92-Create Payment Plan' bot	After the execution, any one of the error logs below can be seen in the Cloud Factory: "Failed Detail: Timeout waiting for: createPaymentPlan 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 - EK92- Create 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 Analyst				
Responsibility				Duration	25s

Purpose

To Create the Payment plan using EK92 Transaction.

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 Payment Plan is Created. After the execution, status can be seen in the Cloud Factory. "Successful"	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 Analyst				
Responsibility	Check on credentials			Duration	29s

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.	The package is being imported and the bot is scheduled for the run.	This is a manual step

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
		2. Deploy the package to the required environment. 3. Add a trigger to the deployment.		
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	3	Tester Name		Testing Date	
Business Role(s)	Billing Specialist/Payments Specialist/Customer Relationship Analyst				
Responsibility	Check on Maximum Number of screens			Duration	30s

Purpose

To check whether the bot is responding with proper error message when number of screens exceeded 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 open sessions	Check whether the number of GUI open sessions exceeds five.	The bot fails if more than five sessions are opened.	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, error below 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 Payment Plan Number)

Test Administration

Test Case ID	4	Tester Name		Testing Date	
Business Role(s)	Billing Specialist/Payments Specialist/Customer Relationship Analyst				
Responsibility	Check on the Payment Plan Number			Duration	35s

Purpose

To check whether the bot is responding with proper error message when there is an error in Payment plan Number.

Procedure

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
1.	Ensure the bot is deployed and a trigger is added.	<ol style="list-style-type: none">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 invalid Payment Plan Number	The invalid Payment Plan number will be given to the bot as an input.	The invalid payment plan number 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, any one of the errors below can be seen in the Cloud Factory: "Failed Detail: Timeout waiting for: createPaymentPlan Exception: irpa_core.error.Timeout"	This is a manual step

3.5 Execute the Bot (Unsuccessful – Invalid Payment Plan Type)

Test Administration

Test Case ID	5	Tester Name		Testing Date	
Business Role(s)	Billing Specialist/Payments Specialist/Customer Relationship Analyst				
Responsibility	Check on payment plan type			Duration	30s

Purpose

To check whether the bot is responding with proper error message when the Payment plan type is invalid.

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 invalid Payment Plan type	The invalid Payment Plan type will be given to the bot as an input.	The invalid payment plan type 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, any one of the errors below can be seen in the Cloud Factory: "Failed Detail: Timeout waiting for: createPaymentPlan Exception: irpa_core.error.Timeout"	This is a manual step