

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

CUSTOMER

SAP Intelligent RPA – Automating the Process of Price Change.

TCODE: EA90

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

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
Price	test price	The Required Price for the change price transaction
TransactionCurrency	AUD	Transaction Currency codes are to be given here, like INR, USD etc.
ValidFrom	11.06.2021	The date from which the change price is valid for accounting purposes. The field accepts the Single date in the format DD.MM.YYYY.
ValidTo	15.06.2021	The date up to which the change price is valid for accounting purposes. The field accepts the Single date in the format DD.MM.YYYY.
QuantityBase	1	The Quantity Base Number should be given.
PriceAmount	0.14	The Price amount which is to be updated should be entered.

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 - EA90- Chage Price](#)', and click OK to confirm.
The Desktop Agent restarts to fetch the package.
5. From the Desktop Agent window, select the '[Change Price – EA90](#)'scenario.
A pop-up window appears.
6. In the pop-up window, enter the **Price, Transaction Currency, Valid from, Valid to, Quantity Base and Price Amount** required for Change Price. 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 enters the input provided by the user.

Result

- Bot updates the amount to the user given price amount.
- 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	'Utilities - EA90- Chage Price' bot.	The process of changing the price for a given contract will be done. After the execution, the status can be seen in the Cloud Factory. "Successful"
Execute the bot (Unsuccessful execution- Invalid user credentials)	Billing Specialist	'Utilities - EA90- Chage Price' 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 open GUI sessions exceeds five)	Billing Specialist	'Utilities - EA90- Chage Price' 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 Price)	Billing Specialist	'Utilities - EA90- Chage Price' bot.	After the execution, the errors below can be seen in the Cloud Factory: "Failed Detail: sAPLogon750.changePrice.set: { "retcode": -1, "error": "Error on Action set_Text -> Exception has been thrown by the target of an invocation. [Err FWD00013]"} Exception: irpa_core.error.Error"
Execute the bot (Unsuccessful execution – Invalid Transaction Currency)	Billing Specialist	'Utilities - EA90- Chage Price' bot.	After the execution, any one of the error logs below can be seen in the Cloud Factory: "Failed Detail: sAPLogon750.changePrice.set: { "retcode": -1, "error": "Page changePrice

Items	Business Role	Scenario/Transaction	Expected Results
			<pre>- set_Text(validFrom): Item validFrom couldn't be found [error FWD00021]."} Exception: irpa_core.error.Error"</pre>
<p>Execute the bot (Unsuccessful execution – Invalid Date format)</p>	<p>Billing Specialist</p>	<p>'Utilities - EA90- Chage Price' bot.</p>	<p>After the execution, any one of the error logs below can be seen in the Cloud Factory:</p> <pre>"Failed Detail: Timeout waiting for: promptForCustomizingRequest Exception: irpa_core.error.Timeout"</pre>
<p>Execute the bot (Unsuccessful execution – Invalid Quantity Base)</p>	<p>Billing Specialist</p>	<p>'Utilities - EA90- Chage Price' bot.</p>	<p>After the execution, any one of the error logs below can be seen in the Cloud Factory:</p> <pre>"Failed Detail: Timeout waiting for: promptForCustomizingRequest Exception: irpa_core.error.Timeout"</pre>

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 - EA90- Change Price' 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				
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				
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				
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 sessions open.	Check whether the number of GUI sessions open exceeds five.	The bot fails if more than five sessions are open.	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 Price)

Test Administration

Test Case ID	4	Tester Name		Testing Date	
Business Role(s)	Billing Specialist				
Responsibility	Check on the Price.			Duration	37s

Purpose

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

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 Price.	The invalid Price will be given to the bot as an input.	The invalid price 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.	<p>After the execution, any one of the errors below can be seen in the Cloud Factory:</p> <pre>"Failed Detail: sAPLogon750.changePrice.set: { "retcode": -1, "error": "Error on Action set_Text -> Exception has been thrown by the target of an invocation. [Err FWD00013]}" Exception: irpa_core.error.Error"</pre>	This is a manual step.

3.5 Execute the Bot (Unsuccessful – Invalid Transaction Currency)

Test Administration

Test Case ID	5	Tester Name		Testing Date	
Business Role(s)	Billing Specialist				
Responsibility	Check on Transaction Currency.			Duration	30s

Purpose

To check whether the bot is responding with proper error message when the Transaction Currency 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 Transaction Currency	The invalid Transaction Currency will be given to the bot as an input.	The invalid Transaction Currency 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: sAPLogon750.changePrice.set: { "retcode": -1, "error": "Page changePrice - set_Text(validFrom): Item validFrom couldn't be found [error FWD00021]."} Exception: irpa_core.error.Error"	This is a manual step.

3.6 Execute the Bot (Unsuccessful – Invalid Date format)

Test Administration

Test Case ID	6	Tester Name		Testing Date	
Business Role(s)	Billing Specialist				
Responsibility	Check on Date format.			Duration	30s

Purpose

To check whether the bot is responding with proper error message when the Date format 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 Date Format	The invalid Date Format will be given to the bot as an input.	The invalid Date Format 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: promptForCustomizingRequest Exception: irpa_core.error.Timeout"	This is a manual step.

3.7 Execute the Bot (Unsuccessful – Invalid Quantity Base)

Test Administration

Test Case ID	7	Tester Name		Testing Date	
Business Role(s)	Billing Specialist				
Responsibility	Check on Quantity Base.			Duration	30s

Purpose

To check whether the bot is responding with proper error message when the Quantity Base is invalid (A character).

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 Quantity Base.	The invalid Quantity Base will be given to the bot as an input.	The invalid Quantity Base 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: promptForCustomizingRequest Exception: irpa_core.error.Timeout"	This is a manual step.