

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

CUSTOMER

SAP Intelligent RPA – Automating the Process of Apply Block

TCODE: ES21/CAA2

Document History

Revision	Change Date	Description
1.0	October 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
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	6000001134	The Contract Number of the user
Bill Block Reason	01	The Reason for Bill Block
Contract Account	300000217	The Contract Account of the user
Invoice - Lock	1	The Reason for Invoice Lock

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.

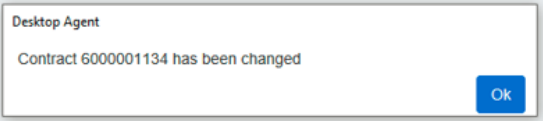
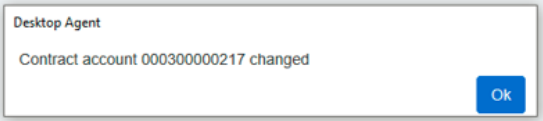
2. Search for Desktop Agent on Windows search and execute it.
3. Open Desktop Agent and click [Projects](#).
4. In the [Projects](#) window, click the [Start](#) button next to the bot's name 'Utilities - ES21-CAA2-Apply Block', and click OK to confirm.
The Desktop Agent restarts to fetch the package.
5. If user wants to apply Bill Block, select the 'Start Bill Block - ES21' scenario from the Desktop Agent window
A pop-up window appears.
6. In the pop-up window, enter the **Contract, Bill Block Reason**. Users must provide all required inputs to run this bot. Refer section 1.3 for sample values.
7. Bot identifies the transaction code and applies the Bill Block.
8. If user wants to apply Invoice Block, select the 'Start Invoice Block - CAA2' scenario from the Desktop Agent window
A pop-up window appears.
9. In the pop-up window, enter the **Contract Account, Invoice Lock**. Users must provide all required inputs to run this bot. Refer section 1.3 for sample values.
10. Bot identifies the transaction code and applies the Invoice Block.




Result


- Bot identifies the transaction code and applies blocks as per user requirement.
- 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 Block)	Customer Relationship Analyst	'ES21-Bill Block' bot	<p>The Bill Block is applied for the given contract number. After the execution, the status can be seen in the Cloud Factory.</p> <p>"Successful"</p> <p>At the end of execution bot shows dialog box as,</p> 
Execute the bot (Successful Block)	Customer Relationship Analyst	'CAA2 – Invoice Block' bot	<p>The Invoice Block is applied for the contract account number given. After the execution, the status can be seen in the Cloud Factory.</p> <p>"Successful"</p> <p>At the end of execution bot shows dialog box as,</p> 
Execute the bot (Unsuccessful execution- Invalid user credentials)	Customer Relationship Analyst	'ES21-Bill Block' bot (or) 'CAA2 – Invoice Block' bot	<p>After the execution, error can be seen below in the Cloud Factory:</p> <p>"Failed Detail: Timeout waiting for: sAPEasyAccess Exception: irpa_core.error.Timeout"</p>
Execute the bot (Unsuccessful execution- If the number of GUI sessions opened exceeds five)	Customer Relationship Analyst	'ES21-Bill Block' bot (or) 'CAA2 – Invoice Block' bot	<p>After the execution, below error logs can be seen in the Cloud Factory:</p> <p>"Failed"</p>



Items	Business Role	Scenario/Transaction	Expected Results
			<p>Detail: Timeout waiting for: sAPEasyAccess</p> <p>Exception: irpa_core.error.Timeout"</p>
Execute the bot (successful-Invalid Contract)	Customer Relationship Analyst	'ES21-Bill Block' bot	<p>After the execution, the status can be seen in the Cloud Factory.</p> <p>"Successful"</p> <p>At the end of execution bot shows dialog box as,</p> 
Execute the bot (successful-Invalid Contract account)	Customer Relationship Analyst	'CAA2 – Invoice Block' bot	<p>After the execution, the status can be seen in the Cloud Factory.</p> <p>"Successful"</p> <p>At the end of execution bot shows dialog box as,</p> 
Execute the bot (successful-Invalid Bill Block Reason)	Customer Relationship Analyst	'ES21-Bill Block' bot	<p>After the execution, the status can be seen in the Cloud Factory.</p> <p>"Successful"</p> <p>At the end of execution bot shows dialog box as,</p> 
Execute the bot (successful-Invalid Invoice - Lock)	Customer Relationship Analyst	'CAA2 – Invoice Block' bot	<p>After the execution, the status can be seen in the Cloud Factory.</p> <p>"Successful"</p>

Items	Business Role	Scenario/Transaction	Expected Results
			<p>At the end of execution bot shows dialog box as,</p>  <p>The screenshot shows a dialog box with a title bar that says 'Desktop Agent'. The main text inside the dialog box reads 'Enter a valid InvoicingLock'. In the bottom right corner of the dialog box, there is a blue button with the text 'Ok'.</p>

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 - ES21 - CAA2 - Apply Block' bot.	Bot execution starts	

3.1 Execute the Bot (Success Test)

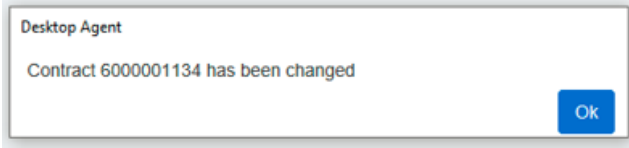
Test Administration

Test Case ID	1	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility				Duration	

Purpose

To apply the Bill block as per requirement successfully.

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"> Go to the respective Cloud Factory and check the package is imported or not. Deploy the package to the required environment. 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 Block is applied. After the execution, status can be seen in the Cloud Factory. "Successful"	This is a manual step
3.	After successful execution	In SAP GUI, At the end of the bot the dialog box can be seen.	The dialog box at the end of bot will be, 	This is automation step

3.2 Execute the Bot (Success Test)

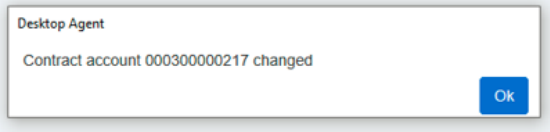
Test Administration

Test Case ID	2	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility				Duration	

Purpose

To apply the invoice block as per requirement successfully.

Procedure

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
2.	Ensure the bot is deployed and a trigger is added.	<ol style="list-style-type: none"> Go to the respective Cloud Factory and check the package is imported or not. Deploy the package to the required environment. 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 Invoice Block is applied. After the execution, status can be seen in the Cloud Factory. "Successful"	This is a manual step
3.	After successful execution	In SAP GUI, At the end of the bot the dialog box can be seen.	The dialog box at the end of bot will be, 	This is automation step

3.3 Execute the Bot (Unsuccessful – Invalid User Credentials)

Test Administration

Test Case ID	3	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility	Check 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
3.	Ensure the bot is deployed and a trigger is added.	<ol style="list-style-type: none"> Go to the respective Cloud Factory and check the package is imported or not. Deploy the package to the required environment. 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 SAP GUI, At the end of the bot the dialog box can be seen. 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 manual step

3.4 Execute the Bot (Unsuccessful – If Number of GUI Sessions opened exceeds five)

Test Administration

Test Case ID	4	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility	Check the number GUI sessions open			Duration	

Purpose

To check whether the bot is responding with proper error message when number of GUI Sessions 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.	<ol style="list-style-type: none"> 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.	Check the number GUI sessions open	Check whether the count of GUI sessions available exceeds five.	The bot fails if more than five sessions are opened (i.e., 6 sessions).	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 can be seen below in the Cloud Factory: <pre> Failed Detail: Timeout waiting for: sAPEasyAccess Exception: irpa_core.error.Timeout </pre>	This is Manual step

3.5 Execute the bot (successful-Invalid Contract)


Test Administration

Test Case ID	5	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility	Check the Contract Number			Duration	

Purpose

To check whether the bot is responding with proper error message when Contract Number 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 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 Contract Number	The invalid Contract number will be given to the bot as an input.	The invalid Contract Number is updated.	This is a manual step
3.	After Successful execution	In Cloud Factory, go to Monitoring > Jobs and check the status for the respective job.	After the execution, status can be seen in the Cloud Factory. "Successful" 	This is Manual step
4	After Successful execution	After Successful execution	The dialog box at the end of bot will be,	This is Automation step

3.6 Execute the bot (successful-Invalid Contract Account)


Test Administration

Test Case ID	6	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility	Check the Contract Account			Duration	

Purpose

To check whether the bot is responding with proper error message when Contract Account 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.	<ol style="list-style-type: none"> Go to the respective Cloud Factory and check the package is imported or not. Deploy the package to the required environment. 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 Contract Account	The invalid Contract Account will be given to the bot as an input.	The invalid Contract Account is updated.	This is a manual step
3.	After Successful execution	In Cloud Factory, go to Monitoring > Jobs and check the status for the respective job.	<p>After the execution, status can be seen in the Cloud Factory.</p> <p>"Successful"</p> 	This is Manual step

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
4	After Successful execution	After Successful execution	The dialog box at the end of bot will be,	This is Automation step

3.7 Execute the bot (successful-Invalid Bill Reason)

Test Administration

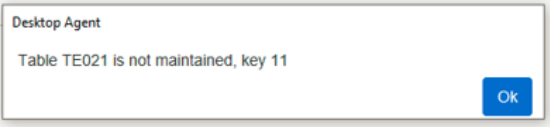
Test Case ID	7	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility	Check the Bill Lock Reason			Duration	

Purpose

To check whether the bot is responding with proper error message when Bill Lock Reason 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.	<ol style="list-style-type: none"> 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.	Update the Invalid Bill Lock Reason	The invalid Bill Lock Reason will be given to the bot as an input.	The invalid Bill Lock Reason is updated.	This is a manual step

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
3.	After Successful execution	In Cloud Factory, go to Monitoring > Jobs and check the status for the respective job.	After the execution, status can be seen in the Cloud Factory. "Successful" 	This is Manual step
4	After Successful execution	After Successful execution	The dialog box at the end of bot will be,	This is Automation step

3.8 Execute the bot (successful-Invalid Invoice Lock Reason)

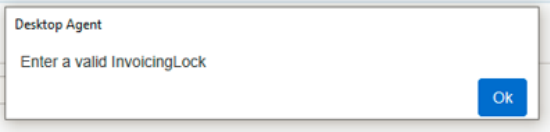
Test Administration

Test Case ID	8	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility	Check the Invoice Lock Reason			Duration	

Purpose

To check whether the bot is responding with proper error message when Invoice Lock Reason 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.	<ol style="list-style-type: none"> Go to the respective Cloud Factory and check the package is imported or not. Deploy the package to the required environment. 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 Invoice Lock Reason	The invalid Invoice Lock Reason will be given to the bot as an input.	The invalid Invoice Lock Reason is updated.	This is a manual step
3.	After Successful execution	In Cloud Factory, go to Monitoring > Jobs and check the status for the respective job.	<p>After the execution, status can be seen in the Cloud Factory.</p> <p>"Successful"</p> 	This is Manual step
4	After Successful execution	After Successful execution	The dialog box at the end of bot will be,	This is Automation step