

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

CUSTOMER

SAP Intelligent RPA – Automate the Process of Correct Meter Read

TCODE: EL29

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 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
Print Document Number	2000000112	Print Document Number which should be reversed.
Reason for Reverse	03	Reason for Reversal of document.
Contract	6000000010	The Contract Number used.
Installation	4000000008	The installation used.
Contract Account	30000013	The Contract Account used.
MR Date	27.09.2021	The date of meter recording.
MR Recorded	22,44	Meter Recorded value which is to be changed.
MR Type	01	Meter Recorded Type which is to be changed.
Meter Reading Reason	01	The reason for Meter Recording.
Create Document Reason	01	The Reason for creation of Document

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 name '[Utilities - EL29 - Correct Meter Read](#)', and click OK to confirm.
The Desktop Agent restarts to fetch the package.
5. From the Desktop Agent window, select the '[Start Correct Meter Read - EL29](#)' scenario.
A pop-up window appears.
6. In the pop-up window, enter the Installation Number/ Contract Number, contract Account, MR Date, MR Type, MR reason, Reason of Reversal, Creation Reason, Print Document Number.
User must provide all required inputs to run this bot. Refer section 1.3 for sample values.
7. Bot opens the transaction from any session of the SAP Logon, without interrupting user's work (Maximum number of GUI Sessions should be below 6)


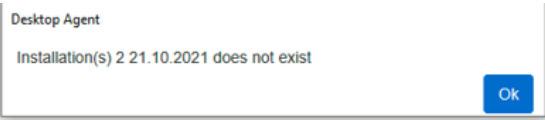
Result

- Bot completes correcting the meter read values by performing reversal of document number, creation of invoice and creation of print Document. .
- In the Cloud Factory, go to [Monitoring](#) > [Jobs](#) to monitor the Status of bot.

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)	Customer Relationship Analyst	'Utilities - EL29 – Correct Meter Read' bot	<p>Tariff will be updated as per the given inputs</p> <p>After the execution, the status can be seen in the Cloud Factory. "Successful"</p> <p>The dialog box at the end of each sub bot will be, For Reversal of existing Print Document Number,</p> <div data-bbox="1388 675 1929 794" style="border: 1px solid #ccc; padding: 5px;"> <p>Desktop Agent</p> <p>Reversal completed (see log)...</p> <p style="text-align: right;"><input type="button" value="Ok"/></p> </div> <p>For Correcting the Meter Read,</p> <div data-bbox="1388 841 1929 959" style="border: 1px solid #ccc; padding: 5px;"> <p>Desktop Agent</p> <p>Meter reading documents were corrected</p> <p style="text-align: right;"><input type="button" value="Ok"/></p> </div> <p>For Invoice Generation,</p> <div data-bbox="1388 1006 1929 1125" style="border: 1px solid #ccc; padding: 5px;"> <p>Desktop Agent</p> <p>Individual bill completed (see log)...</p> <p style="text-align: right;"><input type="button" value="Ok"/></p> </div> <p>For Creation of Print Document,</p> <div data-bbox="1388 1188 1929 1307" style="border: 1px solid #ccc; padding: 5px;"> <p>Desktop Agent</p> <p>Printing completed (see log)</p> <p style="text-align: right;"><input type="button" value="Ok"/></p> </div>
Execute the bot (Unsuccessful execution- Invalid user credentials)	Customer Relationship Analyst	'Utilities - EL29 – Correct Meter Read' bot	<p>Bot will fail at login screen of SAP.</p> <p>After the execution, error can be seen below in the Cloud Factory: "Failed"</p>

Items	Business Role	Scenario/Transaction	Expected Results
			Detail: Timeout waiting for: sAPEasyAccess Exception: irpa_core.error.Timeout"
Execute the bot (Unsuccessful execution- If the number of GUI session opened exceeds five)	Customer Relationship Analyst	'Utilities - EL29 – Correct Meter Read' 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 (Successful execution – Invalid Print Document Number)	Customer Relationship Analyst	'Utilities - EL29 – Correct Meter Read' bot	After the execution, the status can be seen in the Cloud Factory. "Successful" The dialog box at the end of bot will be, 
Execute the bot (Successful execution – Invalid Installation/Contract Number)	Customer Relationship Analyst	'Utilities - EL29 – Correct Meter Read' bot	After the execution, the status can be seen in the Cloud Factory. "Successful" The dialog box at the end of bot will be, 

3 Test Procedures

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

In case of Attended version, the steps below 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 "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 'Start Update Bank Details – BP' 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	45s	

Purpose

To correct the Meter Read Recordings.

Procedure

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
1.	Ensure the bot is scheduled	<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.	<p>The Payment Scheme is Changed.</p> <p>After the execution, status can be seen in the Cloud Factory.</p> <p>"Successful"</p>	This is a manual step
3.	After successful execution	In SAP GUI, At the end of the bot the dialog box can be seen.	<p>The dialog box at the end of bot will be,</p> 	This is automation step

3.2 Execute the Bot (Unsuccessful – Invalid User Credentials)

Test Administration

Test Case ID	2	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility	Check on credentials		Duration	26 s	

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.	<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 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)	Customer Relationship Analyst				
Responsibility	Check on Maximum Number of GUI screens			Duration	30 s

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 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 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: "Failed Detail: Timeout waiting for: sAPEasyAccess Exception: irpa_core.error.Timeout"	This is a manual step

3.4 Execute the Bot (Successful – Invalid Print Document Number)

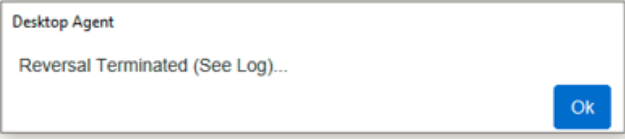
Test Administration

Test Case ID	4	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility	Check on the Installation Number			Duration	44 s

Purpose

To check whether the bot is responding with proper error message when there is an error in Print Document 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"> Go to the respective Cloud Factory and check the package is being 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 Print Document Number	The invalid Print Document Number will be given to the bot as an input.	The invalid Print Document 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 a manual step
4.	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

3.5 Execute the Bot (Successful – Invalid Installation Number)

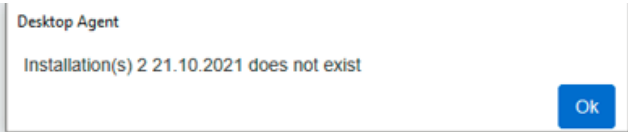
Test Administration

Test Case ID	4	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility	Check on the Invalid Installation Number			Duration	44 s

Purpose

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

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"> 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 Installation Number	The invalid Installation Number will be given to the bot as an input.	The invalid Installation 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 a manual step
4.	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