

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

CUSTOMER

# SAP Intelligent RPA – Automating Process of Meter Read

TCODE: EL28

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
Installation	4000001197	The Installation Number for which Meter Read should be done. Required input.
Scheduled MR Date	30.07.2021	The date of which Meter Read is scheduled. Required input.
MR Reason	02	Meter Read Reason. Required input.
MR Recorded	707.917,44.3	Meter Read Recorded Values. Required input.
MR Type	01	The type of Meter Read. Required input.

## 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 <a href="#">Desktop Agent User Guide</a> 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.

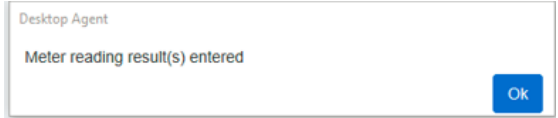
2. Search for Desktop Agent on Windows search and execute it.
3. Open Desktop Agent and click [Projects](#).
4. In the [Projects](#) window, click the [Start](#) button next to the bot's name 'Utilities – EL28 – Meter Read,' and click OK to confirm.  
The Desktop Agent restarts to fetch the package.
5. From the Desktop Agent window, select the 'Start Enter Meter Read - EL28 ' scenario.  
A pop-up window appears.
6. In the pop-up window, enter the Installation Number, Scheduled MR Date, MR reason, MR Recorded, MR Type. Users 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)
8. After adding the MR Recorded value and MR Type, Bot gives the output message to the user.

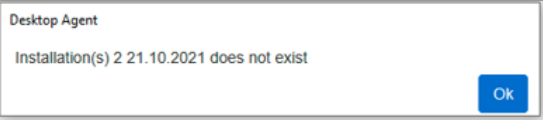

#### Result

- Bot completes Enter Meter Read using EL28 transaction.
- 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 - EL28 – Meter Read' bot	<p>The Meter reading values have been Updated using the given Installation.</p> <p>After the execution, the status can be seen in the Cloud Factory.</p> <p>"Successful"</p> 
Execute the bot (Unsuccessful execution- Invalid user credentials)	Customer Relationship Analyst	'Utilities - EL28 – Meter Read' bot	<p>Bot will fail at login screen of SAP.</p> <p>After the execution, errors below can be seen 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	'Utilities - EL28 – Meter Read' bot	<p>Bot will be failed since user cannot open more than 6 GUI sessions at once.</p> <p>After the execution, below error logs can be seen in the Cloud Factory:</p> <p>"Failed Detail: Timeout waiting for: sAPEasyAccess Exception: irpa_core.error.Timeout"</p>
Execute the bot (Successful execution – Invalid Installation Number)	Customer Relationship Analyst	'Utilities - EL28 – Meter Read' bot	<p>Bot loaded with wrong installation number.</p> <p>After the execution, the status can be seen in the Cloud Factory.</p> <p>"Successful"</p> <p>At the end of bot, the following dialog box can be seen.</p>



Items	Business Role	Scenario/Transaction	Expected Results
			
Execute the bot (Successful execution – Invalid Reason)	Customer Relationship Analyst	'Utilities - EL28 – Meter Read' bot	<p>Bot loaded with wrong Meter Reading Reason.            After the execution, the status can be seen in the Cloud Factory.            "Successful"</p> <p>At the end of bot, the following dialog box can be seen.</p> 



# 3 Test Procedures

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

In the case of the 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 <a href="#">Start Enter Meter Read - EL28 bot</a> .	Bot execution starts	

## 3.1 Execute the Bot (Success Test)

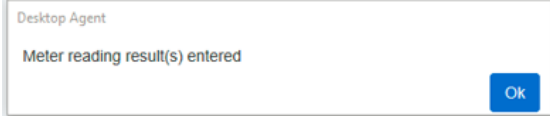
### Test Administration

Test Case ID	1	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility			Duration	27 s	

### Purpose

To Enter Meter Reading records.

## Procedure

Test Step #	Test Step Name	Instruction	Expected Result	Pass / Fail / Comment
1.	Ensure the bot is scheduled	<ol style="list-style-type: none"> <li>Go to the respective Cloud Factory and check the package is imported or not.</li> <li>Deploy the package to the required environment.</li> <li>Add a trigger to the deployment.</li> </ol>	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 <a href="#">Monitoring</a> > <a href="#">Jobs</a> and check the status for the respective job.	<p>The meter read values are entered.</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"> <li>1. Go to the respective Cloud Factory and check the package is being imported or not.</li> <li>2. Deploy the package to the required environment.</li> <li>3. Add a trigger to the deployment.</li> </ol>	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 <a href="#">Monitoring</a> > <a href="#">Jobs</a> and check the status for the respective job.	After the execution, below error logs can be seen in the Cloud Factory: <b>Failed</b> 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"> <li>Go to the respective Cloud Factory and check the package is being imported or not.</li> <li>Deploy the package to the required environment.</li> <li>Add a trigger to the deployment.</li> </ol>	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 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 <a href="#">Monitoring</a> > <a href="#">Jobs</a> and check the status for the respective job.	After the execution, errors below can be seen in the Cloud Factory: <pre>"Failed   Detail: Timeout waiting for: sAPEasyAccess   Exception: irpa_core.error.Timeout"</pre>	This is a manual step

### 3.4 Execute the Bot (successful – Invalid Installation Number)

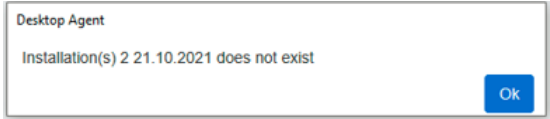
#### Test Administration

Test Case ID	4	Tester Name		Testing Date	
Business Role(s)	Customer Relationship Analyst				
Responsibility	Check on the 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
1.	Ensure the bot is deployed and a trigger is added.	<ol style="list-style-type: none"> <li>Go to the respective Cloud Factory and check the package is being imported or not.</li> <li>Deploy the package to the required environment.</li> <li>Add a trigger to the deployment.</li> </ol>	The package is being imported and the bot is scheduled for the run.	This is a manual step
2.	Update the invalid Business Partner Number	The invalid Installation 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 <a href="#">Monitoring &gt; Jobs</a> 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 Meter Reading Reason)

#### Test Administration


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

#### Purpose

To check whether the bot is responding with a proper error message when there is an invalid Meter Reading Reason.

#### 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"> <li>Go to the respective Cloud Factory and check the package is being imported or not.</li> <li>Deploy the package to the required environment.</li> </ol>	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
		3. Add a trigger to the deployment.		
2.	Update the invalid Meter Reading Reason	The invalid Meter Reading Reason will be given to the bot as an input.	The invalid Meter Reading Reason is updated.	This is a manual step
3.	After Successful execution	In Cloud Factory, go to <a href="#">Monitoring &gt; Jobs</a> 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