

# UIPath Automation Process design document





# Process Design Document History

Date	Version	Role	Name	Organizati	Function	Comments
				on		
01.08.2017	1.0	Author	Olfa Ben Taarit	ACME	SME	Creation v 1.0
				Systems Inc.		
06.09.2017	1.2	Reviewer	Vrabie Stefan	Ui Path	BA	Approved v 1.0





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### 1. Introduction

#### 1.1 Purpose of the document

The Process Design Document describes the business processes chosen for automation using UIPath Robotic Process Automation (RPA) technology.

The document describes the sequence of steps performed as part of the process, the conditions and rules of the process prior to automation. This design document serves as a base documentation for developers to collect the details required for robotic automation of the same business process.

# 1.2 Objectives

The process has been selected for RPA as part of the larger project initiative conducted within ACME Systems Inc., the Finance and Accounting department.

The objective of this process automation is linked to the project business case and it is mainly intended to:

- Deliver faster processing
- > Reduce duration of time-consuming activities
- > Leverage automation to improve the department's overall performance and reliability.

# 1.3 Process key contacts

The design document includes concise but complete requirements of process and it is built based on the inputs provided by the process Subject Matter Expert (SME).

For escalation points, please review the table below:

Role	Name	Date of action	Notes
Process SME	Aurel Vlaicu	TBD	Point of contact for questions related to
			business exceptions and passwords
Reviewer /	Sergiu Celibidache	100	POC for process exceptions.
Owner		tBD	
Approval for	Nicoale Herlea	TDD	Escalations, Delays,
production		TBD	





# 2. AS IS Process Description

# 2.1 Process overview

General information about the process selected for RPA, prior to automation:

AS IS process details			
Process full name	Generate Yearly Report for Vendor		
Function	Reporting		
Department	Finance and Accounting		
Process short description	Download all the monthly reports and generate a Yearly report for		
(operation, activity, outcome)	a specific Vendor .		
Role required for performing the process	System 1 User		
Process schedule	Yearly, in mid-january		
# of items processes /month	7 – 15 Vendors		
Average handling time per item	15 min / Vendor		
Peak period (s)	No peak period		
# of FTEs supporting this activity	1		
Level of exception rate	Vendors do not have any monthly reports for 1-3 months in a calendar year. Those months are to be ignored		





Input data	Vendor TaxID
Output data	Yearly Report – Excel File
	Upload ID

### 2.1.1 In scope for RPA

The activities and exception in of scope for RPA, in this automation workflow/sequence are listed here:

> Full Scope of the process for RPA - to be 100% automated

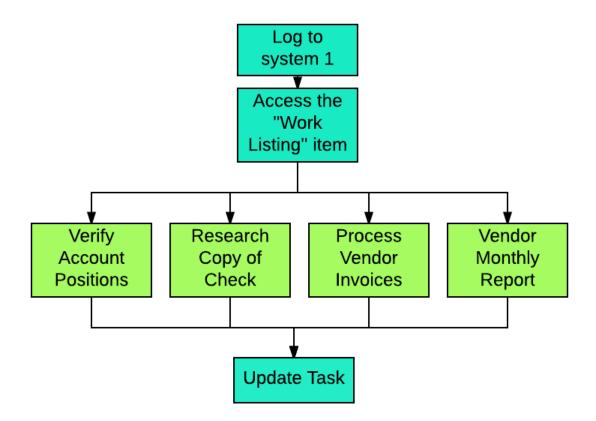
#### 2.1.2 Out of scope for RPA

There are no activities out of scope for RPA





# 2.2 High Level process diagram

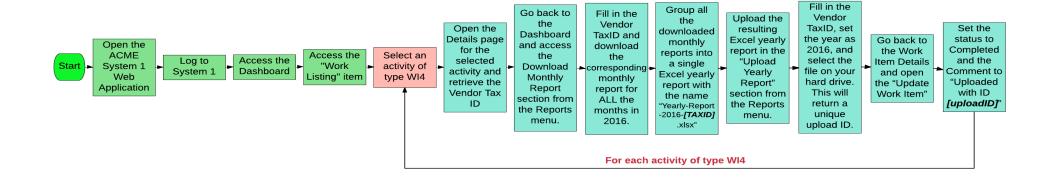






### 2.3 Detailed Process map

This chapter presents the chosen process in detail, which enables the developer to build the automated process.



Step	Short Description		
1.1	Open the ACME System 1 Web Application		
1.2	Log in to System 1 (input data : email and password)		
1.3	Access the Dashboard, it's the central location where the user can pick a specific menu item		
1.4	Access the Work Items Listing to consult all the available tasks to perform (Output data : task )		
1.5	For each activity of the type WI4 perform the following steps		
1.5.A	Open the Details page for the selected activity and retrieve the Vendor Tax ID (Output data: TaxID)		
1.5.B	Go back to the Dashboard and access the Download Monthly Report section from the Reports menu.		





1.5.C	Fill in the Vendor TaxID and download the corresponding monthly report for ALL the months in 2016.
1.5.D	Group all the downloaded monthly reports into a single Excel yearly report with the name "Yearly-Report-2016- <i>[TAXID]</i> .xlsx"
1.5.E	Upload the resulting Excel yearly report in the "Upload Yearly Report" section from the Reports menu.
1.5.F	Fill in the Vendor TaxID, set the year as 2016, and select the file on your hard drive. This will return a unique upload ID. Output: upload ID
1.5.G	Go back to the Work Item Details and open the "Update Work Item"
1.5.H	Set the status to Completed and the Comment to "Uploaded with ID [uploadID]"
1.6	Continue with the next WI4 Activity





# 2.4 Detailed Process Steps

Complete and concrete process steps at keystroke level or clicks to be defined with screenshots. (If there are any data restrictions, mask important data like Policy Number, Customer ID, bank account etc).

#	Step action description	Screenshot	Expected result	Remarks
1.1	Open the ACME System 1 Web Application		Opening of a screen: System 1 Web App	Possible exception: - Handle exception if Web app not available
1.2	Log in to System 1 ( input data : email and password)	ACME System 1  Account - Log In  Home / Account - Log In  To continue, please authenticate here Email:  Password:  Log In  Forgot Password Register  Copyright © 2017 ACME Systems	Access to the dashboard	Possible exception:  - Handle exception if Incorrect email or Password
1.3	Access the Dashboard, it's the central location where the user can pick a specific menu item	Dashboard    Home   Dastourd		
1.4	Access the Work Items Listing to consult all the available tasks to perform (Output data: task)	Month   Continues	List of tasks	





1.5	For each activity of the type WI4 perform the following steps		Possible exception:  Handle exception if no task of type ' Process  Vendor Monthly  Report' exist
1.5.A	Open the Details page for the selected activity and retrieve the Vendor Tax ID (Output data: TaxID)	Work Items  Work Items    Searce   Week Items	
1.5.B	Go back to the Dashboard and access the Download Monthly Report section from the Reports menu.	ACME System 1  Dashboard  Home Dashboard  Welcome, oifa.bentaarit@outlook.fr to System 1.  A User options  D Accounts  CD Accounts  CD Accounts  CD Invoices  Reports  Downlead Monthly Report Upload Yearly Report	
1.5.C	Fill in the Vendor TaxID and download the corresponding monthly report for ALL the months in 2016.	ACME System 1  Reports - Download Monthly Report  Home / Reports - Download Monthly Report  Please fill in the following form to be able to download a specific Vendor Monthly Report.  Vendor Taxib:  R0254678  Month:  January  Year:  2017  Download Report	
1.5.D	Group all the downloaded monthly reports into a single Excel yearly report with the name "Yearly-Report-2016-[TAXID].xlsx"		





1.5.E	Upload the resulting Excel yearly report in the "Upload Yearly Report" section from the Reports menu.	Dashboard  Nome Databased  Welcome, olfa.bentaarit@outlook.fr to System 1.  Luser options  Work Items  Work Items  Databased  Percola  Per	
1.5.F	Fill in the Vendor TaxID, set the year as 2016, and select the file on your hard drive. This will return a unique upload ID. Output: upload ID	ACME System 1  Reports - Upload Yearly Report  Home / Reports - Upload Yearly Report  Please fill in the following form to be able to upload a specific Vendor Yearly Report.  Vendor TaxiD:  Year:  Select Report File  Upload Report	
1.5.G	Go back to the Work Item Details and open the "Update Work Item"	Work Items  Home: You's form  Home: You's form  Generate You's figure for Vendor  Vendor Information  Table Notices In  Address Tracks (Regist for Vendor  Address Tracks (Regist for Vendor  Address Tracks (Regist for Vendor  Table Notices (Regi	
1.5.H	Set the status to Completed and the Comment to "Uploaded with ID <i>[uploadID]</i> "	Update Work Item  WIID: 94124 Type: Generate Yearly Report for Vendor Status: Open Date: 2016-12-11 Comments: Add Comments:  New Status:	
1.6	Continue with the next WI4 Activity		





# 2.5. Exceptions handling

Exceptions identified in the automation process can be classified as:

Area	Known	Unknown
Business	Previously encountered. A scenario is defined with clear actions and workarounds for each case.	New situation never encountered before – it should not really happen. It can be caused by external factors.

Based of the above criteria the table below should reflect all exceptions identifiable in the process and map the expected action the robot needs to take for each exception.

Below are the exceptions captured during the process study. These are known exceptions, met in practice before. For each exception an action is defined.

Insert as many rows as required in the table, to capture all exceptions in a comprehensive list.

#	Exception name	Step where exception is encountered	Parameters	Action to be taken
1	Web app not available	Step # <b>1.1</b>	If Web app is not available	Send email to exceptions@acme-test.com  "Hello, System 1 web App could not be open because the web app is not available"
2	Incorrect email or password	Step # <b>1.2</b>	If message for incorrect username or password exist	Send email to <a href="mailto:exceptions@acme-test.com">exceptions@acme-test.com</a> "Hello, The username or the email is incorrect. Please check and restart Thank you"
3	No task of type 'Process Vendor Monthly Report' exist	Step # <b>1.5</b>		Wait 30 min and retry





For all the other unanticipated or unknown exceptions, the robot should send an email notification at <a href="mailto:exceptions@acme-test.com">exceptions@acme-test.com</a> with the original email and error message screenshot attached.

# 2.6 Error mapping and handling

A comprehensive list of all the errors or warnings or notification should be consolidated here with the description and action to be taken, for each, by the Robot.

Errors identified in the automation process can be classified as:

Area	Known	Unknown
Technology	Experienced previously, action plan or workaround available for it.	New situation never encountered before, or may happened independent of the applications used in the process.

Based of the above criteria the table below should reflect all errors identifiable in the process and map the expected action the robot needs to take for each error.

Insert as many rows as required in the table, to capture all errors in a comprehensive list.

\*Feel free to insert an additional error mapping table for more complete explanation.

E #	Error name	Step where error is encountered	Parameters	Action to be taken
	Application Crash / Internal Server Error	Any step	Error message	Refresh / Retry  Send email with screenshot to <a href="mailto:exceptions@acme-test.com">exceptions@acme-test.com</a> Close application and run the sequence again
	Application unresponsive / page not loading	Any step	No response / blank page	Wait 5 minutes and retry 2 times.  Close application and run the sequence again





# 2.7 In-Scope application details

The table below lists all the applications that are used as part of the process automated, at various steps in the flow.

#	Application name	System Lang.	Login module	Interface	Environment/ Access method	Comments
1	ACME System 1	EN	Web	Web	Web Browser	
2	Microsoft Excel	EN	n/a	Client	Local desktop	

# 3. Development details

## 3.1 Prerequisites for development

- Development or testing environment will be provided for development.
- Development/testing environment is an exact replica of production environment.
- Dedicated system and application access are given to developers with adequate permission.

# 3.2 Password policies

Users manage their own passwords. There are no special policies in place.

#### 3.3 Credentials and asset management

Log on details (user IDs and passwords) should be stored under "Windows Credential Manager" or "UIPath Orchestrator Assets"





# 4. Testing preliminary details

Below are the various stages in testing. Update each item with Testing plan.

Testing	Owner	Start date	End date	# of test cases	% of Success	Status
Alpha	RPA Project Lead					
User Acceptance Testing	Process SME					
Regression Testing	Process Owner					
Security Testing	Client IT / Info Sec Team					

# 4.1 Alpha testing

Alpha and Beta Testing: Alpha testing is the testing done by RPA developers and RPA project lead after development.

# 4.2 User Acceptance Test

Business operations team creates test cases and provides test data for development and testing. This is due to be provided by POC.





# 5. Annexure

#### 5.1 UIPATH automated process details

Note: this step is to be filled in after automation process is complete

**Automation overview**: (time to dev, test, etc)

Robots type: Back Office Robot

Level of human intervention required:

**Use of Orchestrator:** 

**Exceptions recorded in automation process:** 

**Errors identified in the automation process:** 

Challenges identified in the automation process:

Lessons Learned:

**Any adjustments** done in the automation process to facilitate (steps tweaked from the human way of working to an automatic programing way of working). All activities which have been performed to tweak the as is process to enable higher rates of automation on the process.

- Process Assumption
- > Input data assumption
- Number or types of input to be received
- > Skip logon interface and collect back end details
- Extract data from backend without opening the file...
- Data conversion / formatting

**Reporting:** The details and format of the logging available in the workflow must be specified here. (Whether it is creating local log reports or Orchestrator logs).

The format should be specified by the business users.

**Workflow and scripts:** A brief of each workflow and the sequence in which are executed should be described here.