

**Robotic Process Automation**

VES

Development Specifications Document (DSD)

Elements Blue

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## Document Overview

The **VES - Development Specifications Document (DSD)** Provides a brief overview of the Process.

It also provides the details about the process flows, activities used to build the process, Asset Names, Project Details, Environment Setup, Configurations etc.

## Automated Master Project details

|  |  |  |
| --- | --- | --- |
| # | Item | Details |
| **1** | **Master project name and version** | **Download pdf files from VA Server to VES Server and merge pdf’s files into single pdf file** |
| **2** | **Robot type** | Mix (FOR/BOR) |
| **3** | **Is Orchestrator used?** | Yes |
| **4** | **Scalable?** | Yes |

## Runtime Guide

### List of packages

|  |  |  |
| --- | --- | --- |
| # | Package name | High Level description |
| 1 | Microsoft.Activities | Provides activities for working with expressions and data types, messaging, communications, and building the logic of workflow applications. |
| 2 | Microsoft.Activities.Extensions | Provides useful extension methods, alternate Task based API and activities. |
| 3 | UiPath.Database.Activities | Provides SQL Activities Pack. |
| 4 | UiPath.Mail.Activities | Provides activities for Retrieve and send mail using POP3, IMAP, SMTP and Exchange protocols. |
| 5 | UiPath.System.Activities | Provides core activities which enable the robots to manipulate data tables and collections, work with files and folders, communicate with Orchestrator. Package also contains workflow operators, dialog forms, debugging and invoking methods. |
| 6 | UiPath.UIAutomation.Activities | Provides core activities which enable the robots to simulate human interaction such as mouse, keystrokes and image recognition. Package also contains activities for event monitoring, image, browser and window manipulation. |
| 7 | UiPathTeam.PDF.Extensions.Activities | Custom activities for PDF extensions |

### Master Project Runtime details

|  |  |  |
| --- | --- | --- |
| # | Item | Details |
| **1** | **Production environment details** | Production Environment |
| **2** | **Prerequisites to run** | • Update Config File Path in UiPath Orchestrator. |
| **3** | **Input Data** | • Veterans details text file |
| **4** | **Expected Output (output data)** | VBMSExport\_Date\_FileNumber\_OperatorFirstName\_OperatorLastName |
| **5** | **How to start the automated process?** | Hit the RUN Button on UiPath Studio |
| **6** | **Resuming the process from a particular step** | NA |
| **7** | **Reporting** | NA |
| **8** | **Manual Error Handling** | NA |
| **8 a. How to resume the process in case of error** | NA |
| **8 b. How to manually fix transactions with error** | NA |
| **9** | **Use of Orchestrator** | Yes |
| **Password policies** | NA |
| **Stored Credentials:** | NA |
| **List of Asset Names:** | Config File Path  Input Folder Path  Req No  Process Master Table Name  Process Output Table Name  VES System Credentials  VA Server Credentials  Citrix Environment Credentials  Remote Desktop Server Credentials  VBMS website Credentials  Static username  Static pin  Static station id  Password  Data Source Name  Database Name  Email Sender Id  Email Display Name  Email Mail Body  Email Subject  Email Port No  Email Server  Email Receiver Id |
| **List of Queues Names** | NA |
| **Schedule details:** | NA |
| **10** | **Multiple resolutions supported** | NA |
| **Recommended resolution** | NA |

## Project details

### Project Name: VESRPA

|  |  |  |
| --- | --- | --- |
| # | Item name | Details |
| **1** | **Environment used for development** | Windows Environment |
| **2** | **Environment prerequisites** | OS: Windows OS  Database: SQL Server  Tools: SQL Server Management Studio  UiPath Studio 2019.1.0 or above  .Net Framework v4.7.2 or above |
| **3** | **Logging level** | Windows Logging |
| **4** | **Details about automation** | NA |
| **5** | **In case of FOR, can the user operate the computer while the robot is running?** | Yes |
| **6** | **Repository for project** | NA |
| **7** | **List of reused components** | WriteLog.xaml, SendEmail.xaml |
| **8** | **Custom logs defined in the workflows** | NA |
| **9** | **Frequent errors found in the development phase** | NA |
| **10** | **Workarounds used in the automation phase** | NA |
| **11** | **Configuration method** | Orchestrator Assets, Config.xlsx File |
| **12** | **Configuration details** | Orchestrator Assets  Config File Path: VESRPA/Config/Config.xlsx |
| **13** | **Workflow File Export List** | NA |

### Process Workflow:



## Other Details

### Future improvements:

### Debugging tips:



### Other Remarks:

## Post UAT specifications

**Average duration per transaction**: (varies depending on the Test environment) :

**Recommended number of robots for the specified volumes**:

**Specified schedule**:

## Glossary

**Master project** - the overall output of the development, containing one or multiple projects that together cover the scope of the robotic process automation.

**Project** - an UiPath Studio project containing one or multiple workflow files. A project can be converted to a package and run independently, covering a particular scope within the master project. The project is used when defining the development and support phase of the automation.

**Package** - the output of compiling a project. A package can be deployed on the robot machine and be executed by the robot service. Only one package can be executed at a given time by a robot. The package is used when defining the running phase of the automation

**Workflow** - a component of the package, the workflow encapsulates a part of the project logic. The workflow can be of type: sequence, flowchart or state machine. a workflow is saved as an .xaml file inside the project folder. A workflow file can be invoked from another workflow and by default there is an initial workflow file that will run when executing the package.

**Activity** - an action that the robot executes.

**Sequence** - a workflow where activities are executed one after another, in a sequential order

**Flowchart** - a workflow where activities are connected by arrows and the logic of the workflow can be easily followed in a visual manner. The flowchart can also be exported as an image from UiPath studio

**State machine** - a more advanced way of organizing a workflow, similar to a flowchart.

**BOR** - Back office robot

**FOR** – Front office robot

**Orchestrator** – Enterprise architecture server platform supporting: release management, centralized logging, reporting, auditing and monitoring tools, remote control, centralized scheduling, queue/robot workload management, assets management.