Software Requirements Specification

for

FG – HTO Process Automation

Version 1.0

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Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Anil Juluru | 5/12/2017 | Draft | 0.9 |
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# Introduction

## Purpose

This document aims to capture the HTO process requirements, software and hardware components required to automate it.

## Engagement Scope

Health Total Process (HTO) is an insurance health product implemented in PolicyAsia that has various steps like Mandate registration, Presentation, Representation and Notifications. Notifications are send to customer and banks at regular intervals by using their API.

# Overall Description – HTO Process

## As-Is Process (manual process)

Presently all the mentioned below steps for HTO are carried out manually in the HTO system and can be classified on a high level as:

1. Mandate Registration
2. Presentation Process
   1. EMI Presentation
   2. Reverse Presentation
   3. EMI Representation
   4. Reverse Representation
3. Notifications

The details for each of the process steps is provided below:

1. **Mandate Registration**

* Download the mandate excel file from the email which is sent from the bank.
* Consolidate the downloaded mandate file with previous mandate file according to business rules.
* Remove the headers and change the consolidated file format to .csv.
* Upload the .csv file through DTT.
* Login to Policy Asia and run the batch number using P1MAND.
* Extract the Mandate Error file through DTF and save the file in the local machine.

1. **Presentation Process**
2. **EMI Presentation**

* Login into Policy Asia and execute the query.
* Extract the presentation file through DTT and save the file in the local machine.
* Consolidate the presentation file according to business rules and get the members whose status having Active and send the members to bank in excel file in predefined format.
* Encrypt the excel file using the GPGUWIN and send the file to bank through email.

1. **Reverse Presentation**

* After presenting to bank, the bank sends response for the presented members having status debited and un-debited.
* For the debited status, FG will do Inward, Receipt and Endorsements in Policy Asia.

1. **EMI Representation**

* The members having status Un-debited in the presentation process will again be represented to the bank through mail in an encrypted format.

1. **Reverse Representation**

* The response from bank for representation process is received having statuses debited and Un-debited.
* For debited status, FG will do Inward, Receipt and Endorsement in Policy Asia.

1. **Notifications**

* FG will send Emails or SMS to the members in the Mandate Registration, Presentation, Representation steps described above.

## To-Be Process (automated solution)

The intent is to automate the process and the high level features to be automated are described below:

**Mandate Registration**

* FG will download the Mandate excel file from email which is received from the bank and will place in the local drive.
* Planit Automation Frameowrk (PAF) will pick up the Mandate excel file for processing according to the agreed upon business rules provided by FG
* After consolidation from above step, file format will be changed from excel to .csv by PAF and uploaded using DTT to PolicyAsia
* A batch job P1MAND will be executed with PAF to get the mandate error file.
* Mandate error file will be extracted using the DTT by PAF

**Presentation Process**

1. **EMI Presentation**

* PAF will connect to the PolicyAsia system
* PAF will extract the file through DTT and save the file to a pre-defined location
* With reference to the Mandate file, certain data updates/business rule related changes will be made to file mentioned above.
* This file to be presented to the bank will be encrypted using the steps provided by FG and emailed to the bank programmatically.

1. **Reverse Presentation**

* FG will download the excel file which is received from bank as response to EMI presentation and store it at a predetermined location.
* For the policy members having the debited status - Inward, Receipts and Endorsements process will be carried on programmatically in Policy Asia by PAF

1. **EMI Representation**

* All the policy members having the status un-debited are consolidated and emailed to bank by PAF after encrypting it

1. **Reverse Representation**

* FG will download the excel file which is received from bank as response to EMI Representation and store it at a predetermined location.
* For the policy members having the debited status - Inward, Receipts and Endorsements process will be carried on programmatically in Policy Asia by PAF

**Notifications**

* All Emails and SMS to be sent in the above process will be handled by PAF by using API provided by FG

## Software & Hardware Requirements

Operating system : Window 7 or above

Hard Disk : Minimum 100GB

Ram : 8GB

Software : Python 2.7, Robot framework, RIDE

## Design and Implementation Constraints

* All the required system software for the PAF needs to be installed in Virtual Machines and provided to Planit team before the engagement start.

## User Documentation

* Please find the attached Robot Framework installation document.



## Assumptions and Dependencies

* All the dependency documents and excel files formats are to be provided by FG.
* All the business rules to be implemented should be provided in a document format to Planit. Planit will analyze the feasibility of automating the same and in coordination with FG point of contact will finalize the specific business rules to be automated.
* FG will provide the APIs and message formats/templates to be used