# C:\Users\krishan.chawla\Desktop\loginPageimage.jpg

# PreTUPS Automation

# Manual

Document Overview

This section gives a brief introduction to the scope of PreTUPS Automation Scripts.

## Purpose

1. This document is intended for describing the functionality of PreTUPS Automation Scripts. The document contains the Pre-Requisites / Handlers required for executing the Script.

## Scope

1. The scope of this document is to provide the minute level of knowledge about the PreTUPS Automation script.
2. Automation Script developed and Compatible with v6.7. Any release compatible with same flow can be executed through this Suite.

## Approach used

1. Data Driven framework approach is followed for Test Cases execution. Business Logic classes are implemented to provide code maintainability & easy Test Case addition / manipulation.

## PreTUPS Automation Software Requirement:

* Eclipse (Neon 3 Recommended):

**Download Link:** <http://www.eclipse.org/downloads/eclipse-packages/>

* TestNG Plugin for Eclipse:

**How to install TestNG:** http://toolsqa.com/selenium-webdriver/install-testng/

* Chrome Driver:

**Download Link:** <https://chromedriver.storage.googleapis.com/index.html?path=2.29/>

* Required JAR’s:

Pending Object

## PreTUPS Automation Pre-Requisites:

Below are the Pre-Requisites for executing Automation Script :

* PreTUPS Application up & running.
* Automation Project Imported (All the Required JAR’s added to the Project Build Path is available in the project).
* Rename ‘chromedriver.exe\_bkp’ to ‘chromedriver.exe’ available in ‘/drivers’.
* Sample Sheet used for Automation Suite is embedded as an object.



* Master Sheet filled as per the Application details in DataProvider.xlsx available in config directory.
* Transfer Matrix copied from the Project Documentation and Added to the ‘Transfer Matrix’ sheet in DataProvider.xlsx

Sample Format

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | **Dist1** | | | |  |
| **Sr. No.** | **Channel Domain** | **Channel Categories** | **Allowed parent** | **Super Distributor** | **Dealer** | **Agent** | **Retailer** | **Subscriber** |
| 1 |  | Operator |  | O2CT |  |  |  |  |
| 2 | Dist1 | Super Distributor | 1 |  | C2CT[P], C2CW | C2CT, C2CW | C2CT, C2CW | RC |
| 3 | Dist1 | Dealer | 2 |  |  | C2CT[S] | C2CT[P] | RC |
| 4 | Dist1 | Agent | 2,3 |  |  |  | C2CT | RC |
| 5 | Dist1 | Retailer | 2,3 |  |  |  |  | RC |
|  |  | **Subscriber** |  |  |  |  |  | CP2P |

By default C2C Transfer rule gets created by selecting Domain in “Control Transfer Level”

If any specific selection needs to be made for rule creation, then we need to mention in [] like below

C2CT[S]: Self

C2CT[P]: Parent

Below Short Code should be used for any Service to be used in Matrix. Above Transfer Matrix in Automation Suite is used for creating Channel Hierarchy Creation, O2C Transfer Rule, C2C Transfer Rule & C2S Transfer Rule Creation.

There should be unique ShortCode of any services to be perfromed through WEB present in Transfer Matrix Sheet for Identification & Execution of Services through Selenium Suite.

|  |  |
| --- | --- |
| **Services** | **ShortCode** |
| O2C Transfer | O2CT |
| O2C Withdraw | O2CW |
| O2C Return | O2CR |
| FOC Transfer | FOC |
| C2C Transfer | C2CT |
| C2C Withdraw | C2CW |
| C2C Return | C2CR |
| C2S Gift Recharge | GRC |
| Customer Recharge | RC |
| Customer Recharge Fix line | PSTNRC |
| Customer Recharge Reversal | RCREV |
| ELECTRONIC VOUCHER | EVD |
| Internet | INTRRC |
| Multi Currency Prepaid Recharge | MRC |
| Postpaid Bill Payment | PPB |
| Promo VAS Recharge | PVAS |
| Roaming recharge | RR |
| VAS Recharge | VAS |
| P2P Transfer | PRC,PCR |

* Access Bearer copied from the Project Documentation and Added to the ‘Access Bearer’ sheet in DataProvider.xlsx
* Transfer Matrix & Access Bearer Matrix should contain same Domain & Category as present in the system and follow the same format as provided in the Suite.
* Constant.properties to be modified in case of any Handler changes for Project Specific execution available in sysconfig directory.

**Please note:** Improper values may lead to Automation Suite failure.

* “DataProvider.xlsx” file should not be opened while execution
* Service Class should be created with ALL(ALL) for the Interface which is used for Recharge. Recharge Service is only Automated in Suite
* Before starting execution, Client Lib File present under sysconfig folder needs to changed as per the version to support for that Client (if required)
* Since Image reading is limitation in Automation Suite, so before running suite Captcha Preference Value need to be set as False in DB.
* While executing Automation Suite apart from RM Release, files present in Client Specific folder (In TAG) needs to respective location before execution.
* Transfer rule should be configured as per the client and same data should be provided in the ‘Transfer Matrix’ sheet of DataProvider.xlsx .

## How to Execute:

* Open Eclipse
* Right click testng.xml file available in Project Folder and click Run As -> TestNG Test.
* On Execution completion, Extent report will be available in Output directory

For debugging purpose, Internal Logger will be available in logs directory after suite execution.

* For SMOKE, UAP & SIT Execution, Pre-Requisite Suite has to be executed successfully.

## Points to be taken Care before Executing Suite:

* DataProvider(Master Sheet) format should be .xlsx and should be closed before starting the execution.
* Data should be correctly filled in Transfer Matrix. Subscriber Row & Column should not be removed from the Transfer Matrix Format
* Chrome Browser is supported for Selenium Suite so browser should be present.
* Connectivity to Application System should not get lost during execution.

## Points to be Incorporated:

Depending upon the feasibility of Automating below Points after discussion with PU will be taken care in the on-going Automation Suite development.

* Calculation logic for Commission Profile applicable till 6.10 is implemented in latest Selenium Suite for O2C Transfer.
* Calculation Logic for Card Group is not yet implemented
* Validation of Messages in MessageSent Log file.
* Apart from Customer recharge (RC), Private Recharge, Gift Recharge, Postpaid Bill Payment other types of Recharges are not done and will be progress as per Test Cases.
* Enquiries: Since there is no ID’s present for identification of various parameters in PreTUPS Base Application, so Enquiries Test cases are designed in Automation Suite by taking screenshot of the related case during Suite Execution.

By screenshot & Data provider sheet, Enquiries cases needs to be verified manually till it the time it is not solved in Base Application.