Manual for Automation Testing

**Index**

# Software Required

# Software Installation

# Input to be configured

# Run configuration

# Report

# Software Required

Following software are required to create the automation environment

1. Java JDK (jdk-12.0.1)
2. Android SDK
3. Node JS (6.9.0)
4. Maven (3.6.0)
5. Appium (1.12.1) – Terminal Based
6. Mobile Device – Samsung A8 with OS version 9
7. PgAdmin (4.7v)

# Software Installation

1. Java JDK:
   1. Download the java JDK from <https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>
   2. Install the Java jdk and set the java bin path and variable (Add JAVA\_HOME = C://xxx/jdkfolder and path C://xxxx/jdk/bin)
2. Android Studio:
   1. Download Android Studio from <https://developer.android.com/studio>
   2. During the installation allow to download and install the SDK tools
   3. After installation, set the SDK tools path in environment variables
      1. ANDROID\_HOME:

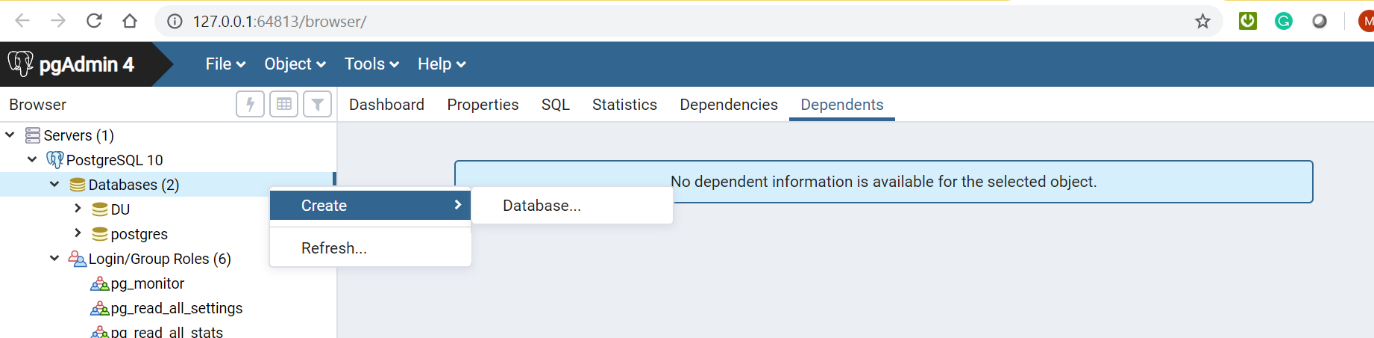
C:\Users\mugazp\AppData\Local\Android\Sdk

* + 1. Path:

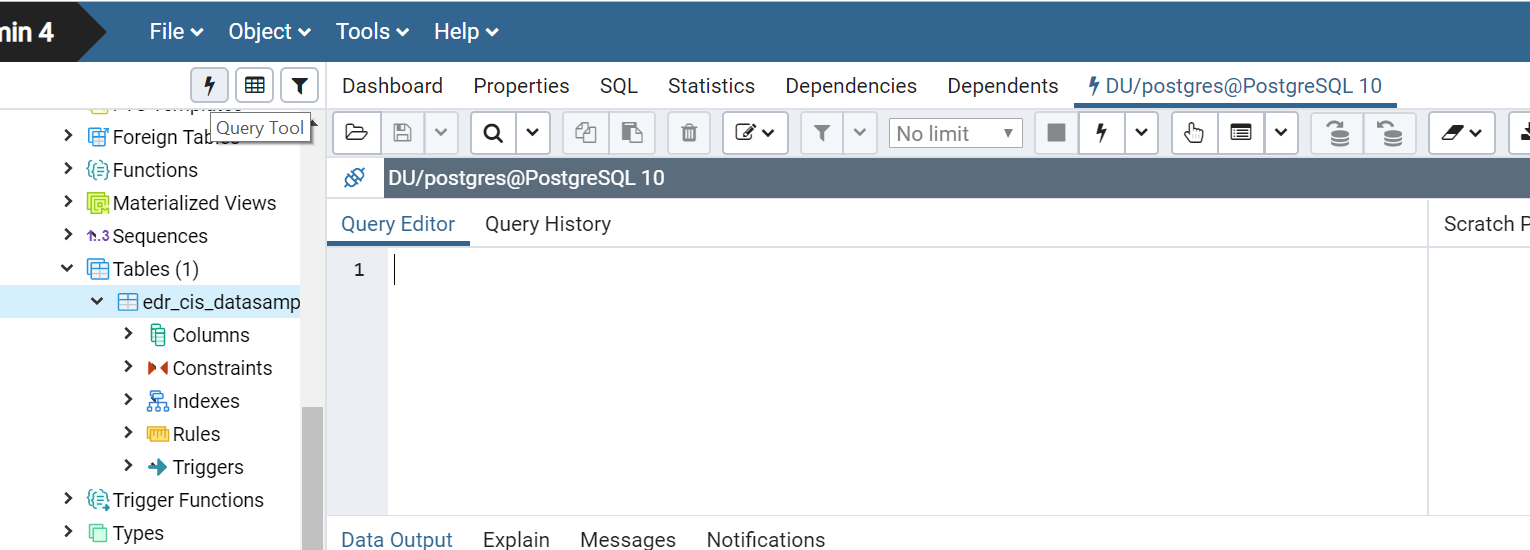
XXXX; C:\Users\mugazp\AppData\Local\Android\Sdk\tools; C:\Users\mugazp\AppData\Local\Android\Sdk\platform-tools

* 1. After the installation go to command terminal and type: “adb devices” and verify the adb server gets started

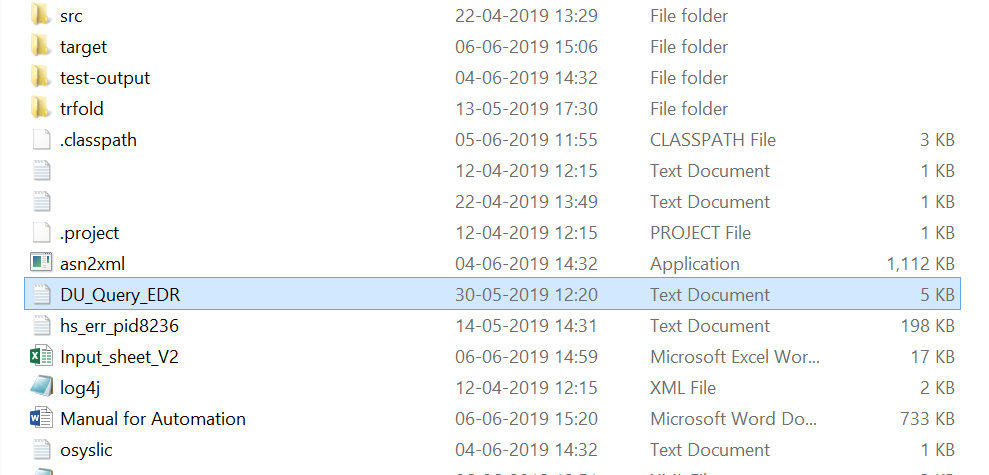
1. Node.js:
   1. Download the node js from <https://nodejs.org/en/download/>
   2. Install the node js
   3. After Installation go to command prompt and type “npm -version”
   4. Verify the installation by version shown
2. Maven:
   1. Download [apache-maven-3.6.1-bin.zip](https://www-eu.apache.org/dist/maven/maven-3/3.6.1/binaries/apache-maven-3.6.1-bin.zip) from <https://maven.apache.org/download.cgi>
   2. Extract the maven folder and copy the path until bin folder (E:\Eclipse\maven-3.6.0\bin)
   3. Set the environment variable path as (XX; E:\Eclipse\maven-3.6.0\bin;)
   4. Open command prompt and type “mvn –version”
   5. Verify the installed verison
3. Appium Terminal Based:
   1. Open the cmd terminal and type “npm install –g appium”
   2. Wait until the installation gets completes
   3. Type “appium -v” and verify the installed appium version
4. PgAdmin:
   1. Download and install the pgadmin from <https://ftp.postgresql.org/pub/pgadmin/pgadmin4/v4.7/windows/pgadmin4-4.7-x86.exe>
   2. Launch the PgAdmin app and browser will open the local host SQL
   3. Configure the user name and password as “postgres” and “maveric”.
   4. Create a DB (Name as “DU”) under PostgreSQL



* 1. Create a table for the DB “DU” in the name “EDR\_CIS\_DataSamp”
  2. Tap on the flash icon and open the Query Editor Screen



* 1. Use the create table query mentioned in the text file (DU\_Query\_EDR)



**Query**:

CREATE TABLE EDR\_CIS\_DataSamp (Transaction\_Time Varchar(50),Client\_Transaction\_Id Varchar(50),Transaction\_Id Varchar(50),IP\_Address Varchar(50),

Event\_Type Varchar(50),A\_Party\_Msisdn Varchar(50),B\_Party\_Msisdn Varchar(50),input Varchar(50),Result\_Code Varchar(50),Result\_Description Varchar(50),

Service\_Class Varchar(50),Requested\_Product\_ID Varchar(50),Product\_Name Varchar(50),Product\_Type Varchar(50),Product\_Cost Varchar(50),Applied\_product\_cost Varchar(50),

Product\_Validity Varchar(50),Access\_Channel Varchar(50),Access\_Code Varchar(50),Charge\_Indicator Varchar(50),Vat\_Fee Varchar(50),Language\_Id Varchar(50),

Iname Varchar(50),Circle\_Code Varchar(50),Pay\_Source Varchar(50),Send\_sms Varchar(50),Skip\_charging Varchar(50),Bill\_Cycle\_ID Varchar(50),

User\_ID Varchar(50),Origin\_Host Varchar(50),Faf\_Indicator Varchar(50),Faf\_MSISDN Varchar(50),Offer\_ID Varchar(50),New\_Imei Varchar(50),Old\_Imei Varchar(50),

Dealer\_ID Varchar(50),Transfer\_Remark Varchar(50),DrCr Varchar(50),Subscription\_Date Varchar(50),Expiry\_Date Varchar(50),Last\_Renewal\_Date Varchar(50),

Grace\_Expiry\_Date Varchar(50),Status Varchar(50),Subscription\_Mode Varchar(50),Network\_Status Varchar(50),Last\_Status Varchar(50),Status\_Change\_time Varchar(50),

Command\_Count Varchar(50),Charging\_Session\_Id Varchar(50),Notification\_Message Varchar(3000),Commission\_Fee Varchar(50),Transfer\_Fee Varchar(50),GL\_Code Varchar(50),

State Varchar(50),Subscriber\_Type Varchar(50),OpParam1 Varchar(50),OpParam2 Varchar(50),OpParam3 Varchar(50),OpParam4 Varchar(50),OpParam5 Varchar(50),OpParam6 Varchar(50),

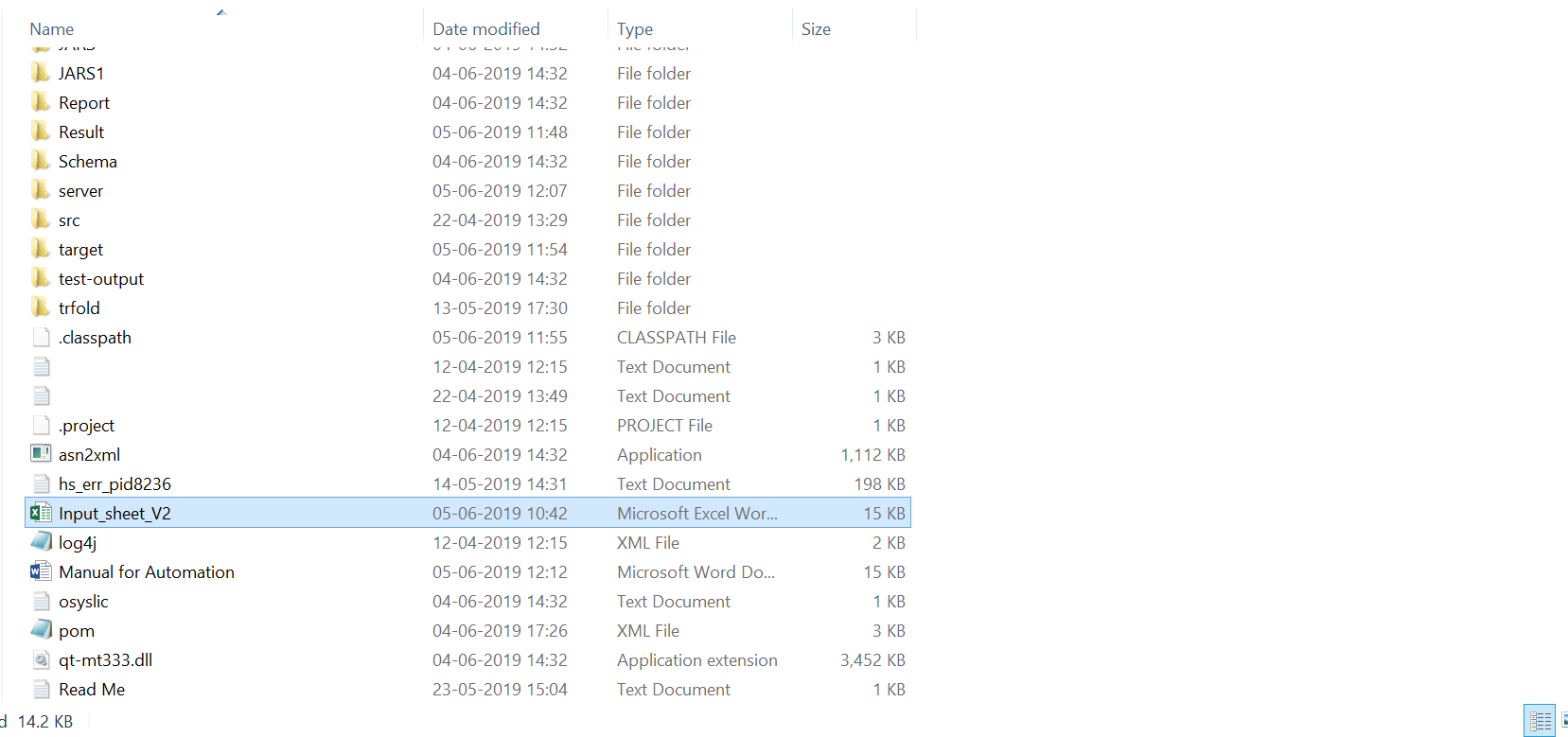
OpParam7 Varchar(50),OpParam8 Varchar(50),OpParam9 Varchar(50),OpParam10 Varchar(50),OpParam11 Varchar(50),OpParam12 Varchar(50),TDF\_Event\_Class Varchar(50),

TDF\_Event\_Name Varchar(50),TDF\_Voucher\_Type Varchar(50),TDF\_Periodic\_Charge Varchar(50),TDF\_Usage Varchar(50),External\_Data1 Varchar(50),External\_Data2 Varchar(50),

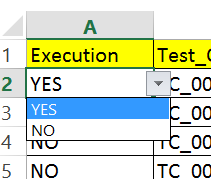
External\_Data3 Varchar(50),External\_Data4 Varchar(50),Callback Varchar(50),ParentProductSPInfo Varchar(50))

# Input to be configured

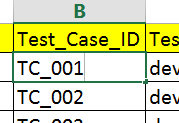
1. Download the project folder and unzip to any folder location
2. Open the project folder and open the input sheet/xmsl



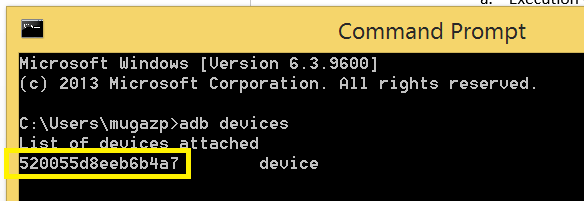
1. Configure the input data:
   1. Execution Control (Mandatory field):
      1. Choose **Yes** for the test scenarios to be executed
      2. Choose **No** for the test scenario to skip from execution



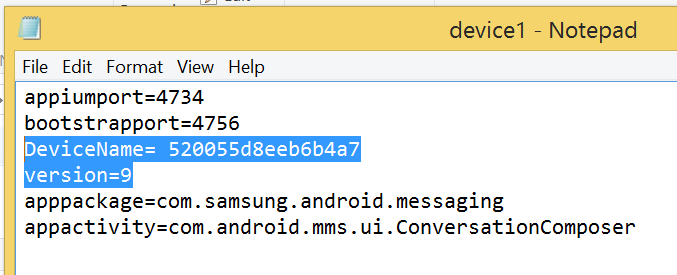
* 1. Test Case ID(Mandatory field):
     1. Enter the test case id (TC\_001\_01)



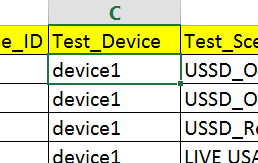
* 1. Test Device:
     1. Need to set the device properties as per the device model and version we are using. Below are the steps to configure the device properties
        1. Goto the folder path “src\test\resources\config”
        2. Open the device.properties file (Ex: device1.properties)
        3. Go to cmd terminal and type “adb devices”



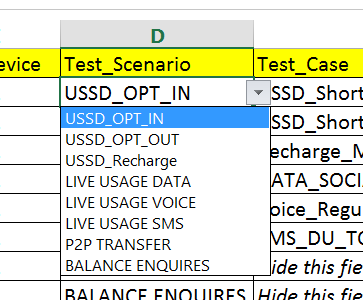
* + - 1. Copy the device name and version of the device to properties file



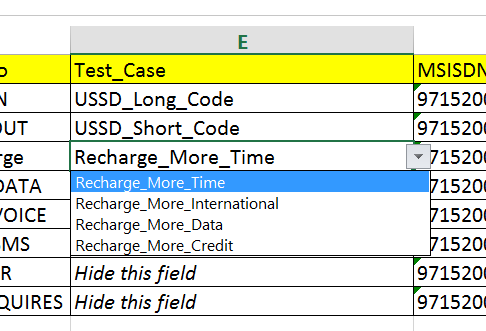
2. Enter the Test\_Device (**device1**.properties) in the input sheet as device1



* 1. Test\_Scenario:
     1. Choose the test scenario to be executed

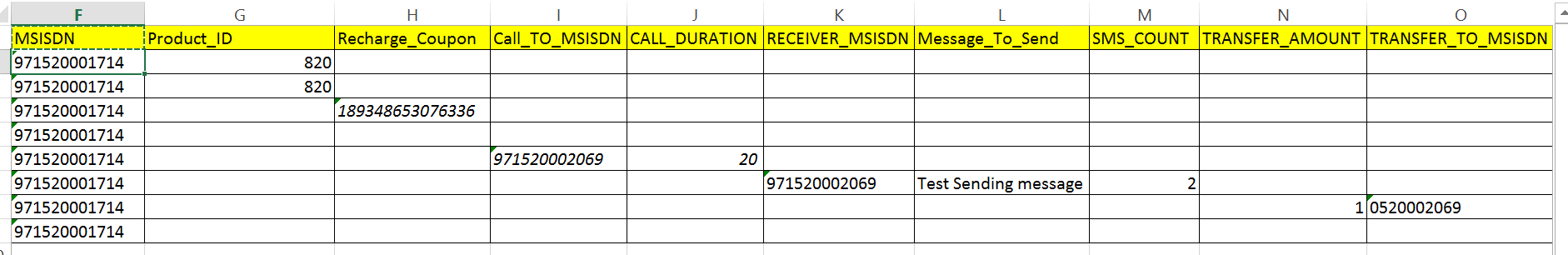


* 1. Test Case:
     1. As per the chosen Test Scenario, the test cases are prepopulated



2. Choose the Test Case to be executed

* 1. MSISDN: Enter the MSISDN number which to be used for execution

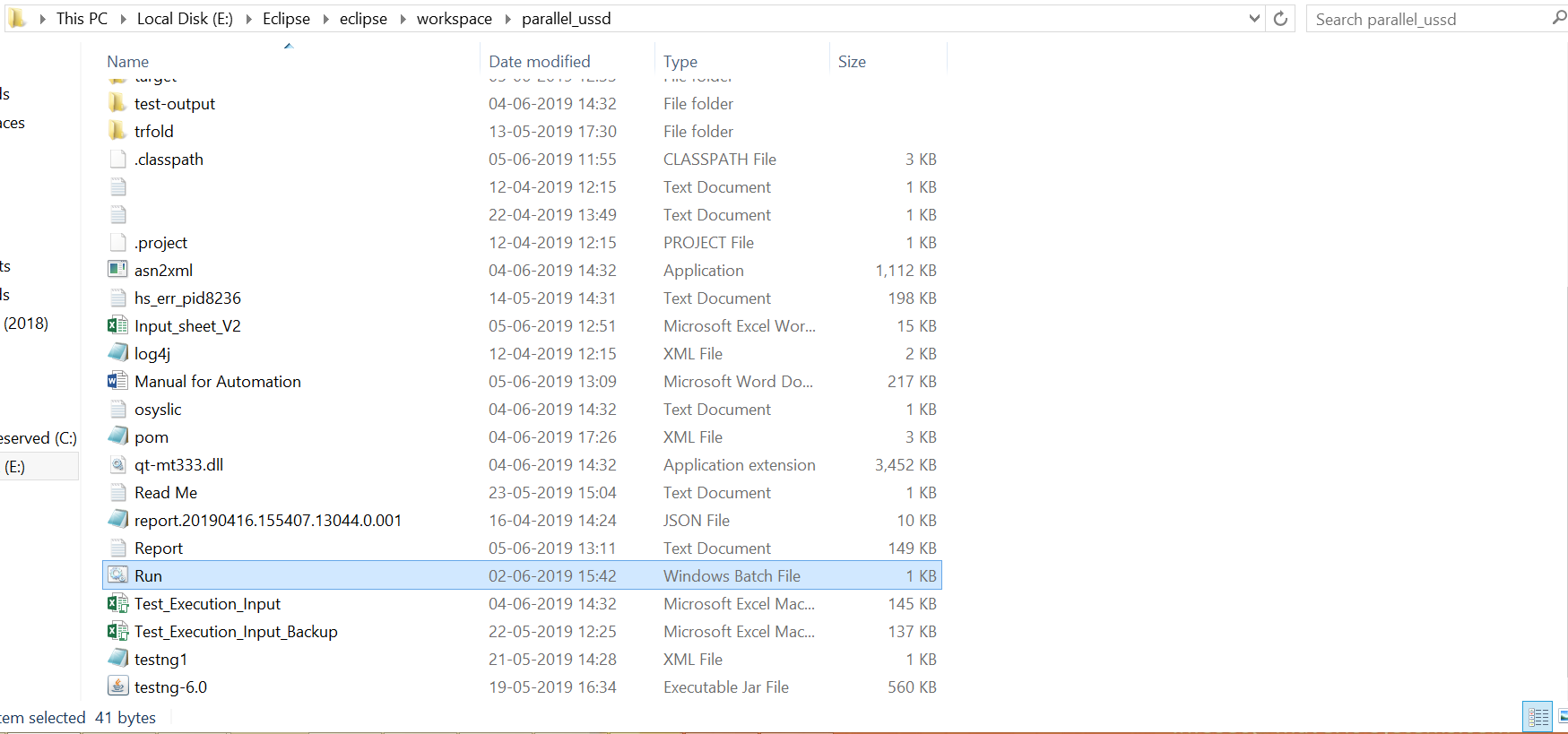


* 1. Product\_ID: Choose the product ID to execute
  2. Recharge\_Coupon: Enter the recharge coupon when the test scenario and test case chosen for recharge
  3. Call\_TO\_MSISDN: Enter the MSISDN of receiver when the test scenario is chosen as Voice call
  4. Call\_Duration: Enter the time duration in Seconds when the test scenario is chosen as Voice call
  5. Receiver MSISDN: Enter the receiver MSISDN when the test scenario is chosen as SMS
  6. Message To Send: Enter the text for the message to need be send when the test scenario is chosen as SMS
  7. SMS\_Count: Enter the number of times the SMS need to be send to the receiver when the Test Scenario is chosen as SMS
  8. Transfer Amount: Enter the amount to be transferred in AED, when the Test Scenario is chosen as P2P Transfer
  9. Transfer to MSISDN: Enter the MSISDN of the receiver, when the Test Scenario is chosen as P2P Transfer

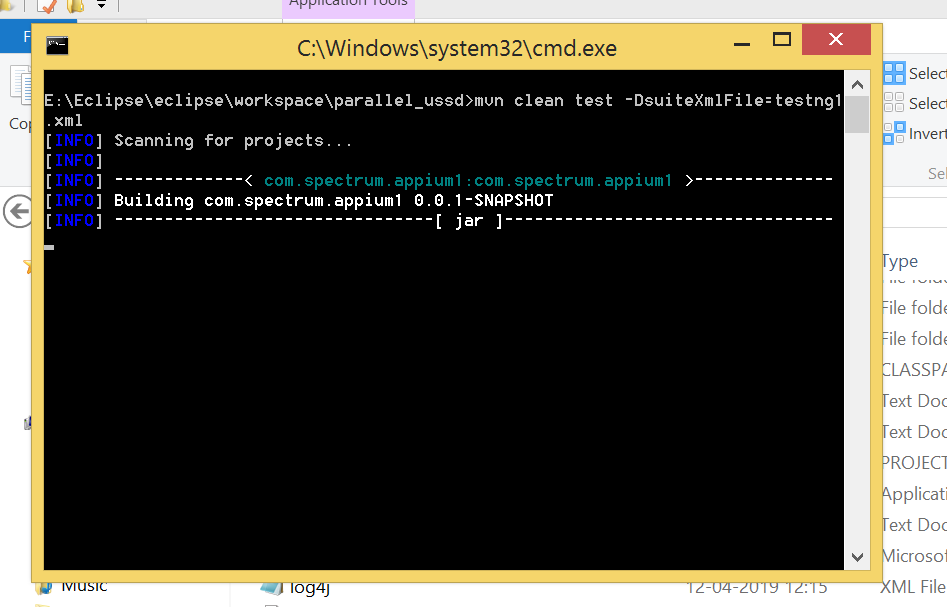
Add the test scenarios as mentioned above and save the input sheet for the execution

# Run configuration

1. Navigate to project folder as below



1. Double click on the "Run.bat” file

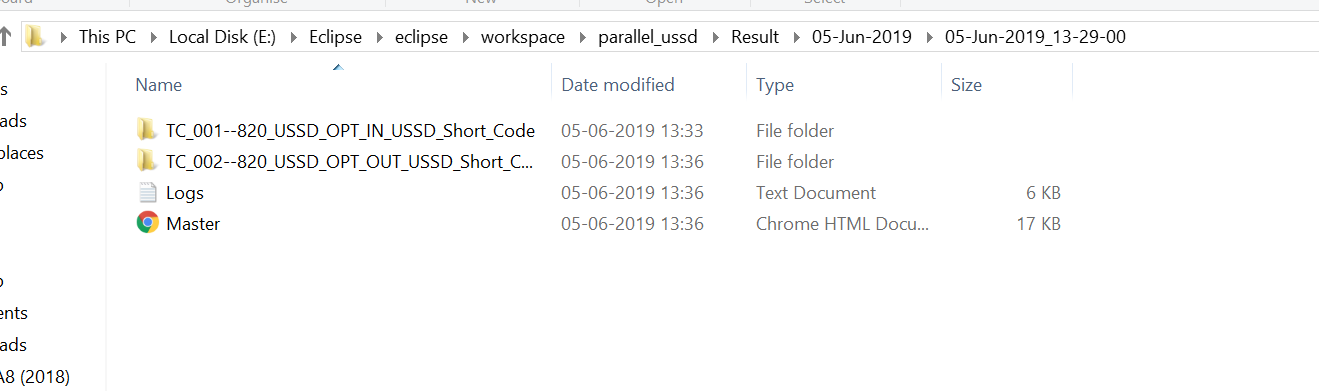


# Report

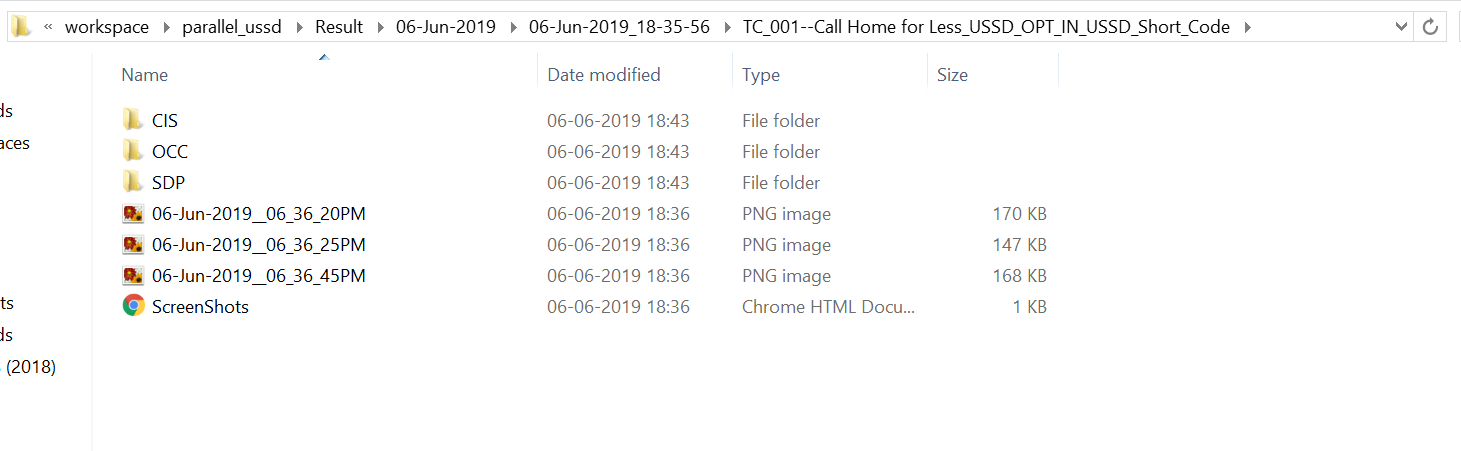
1. After the execution completes, the reports are generated in the following paths:

ProjectName\Result\DD-MMM-YYYY\ DD-MMM-YYYY \_HH-MM-SS

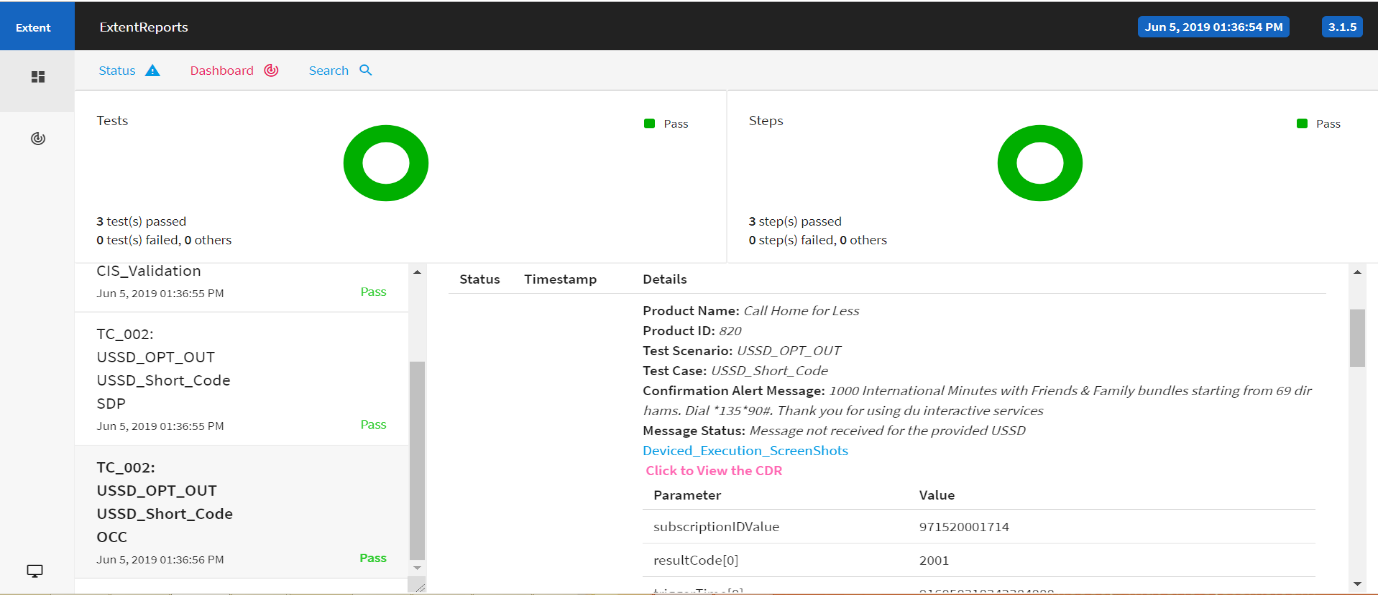
EX: ProjectName\Result\05-Jun-2019\05-Jun-2019\_13-29-00



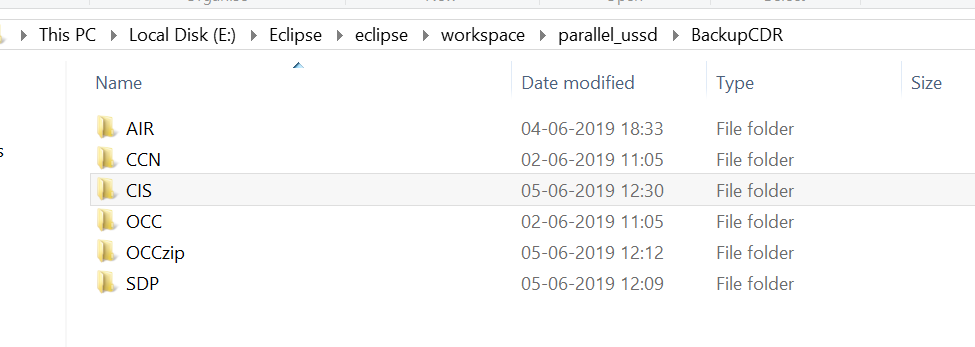
1. Each Test Case Folder contains related CDR folder and device execution screenshots



1. Master.HTML Contains
   1. Overall Report for the execution (Test Case Id, Test Scenario, Test Case, Product Name, etc)
   2. Related Device execution screenshots
   3. CDR and EDR xml file link
   4. Selected CDR parameter values



1. Backup of Raw CDR Files
   1. Path: ProjectName\BackupCDR\FileType



**Regression Suite Execution:**

Currently we have handled 23 regression test cases using automation

*Following are the procedure to execute the test cases:*

1. Following set of test cases should be executed in separate device, which requires Live SIM support to trigger SMS.

|  |
| --- |
| Rework\_58 |
| Rework\_59 |
| Rework\_60 |
| Rework\_61 |
| Rework\_62 |

* 1. Device 1st Slot SIM – Insert the SIM for which the Cash is transfer to More data
  2. Device 2nd Slot SIM – Insert the LIVE SIM through which the SMS to be send

1. Remaining test cases (Except Rework\_58 to 62) should be executed in Separate device