# Testing of OpenXC Web Services through web portal

**Web url:** <http://54.179.173.108:8080/OpenXCFrontEnd/>

**Login credential for web portal:** admin / admin

*(URL temporarily available for 2 weeks for testing purpose)*

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| **Test Case Name** |
| Web service **method registerVehicle( )** testing through web portal. |

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| **Test Case ID** | TC1 | **Created By** | Raghvender Mishra |
| **Functional Description** | Register the vehicle through Vehicle Registration Number on portal. |  | 22-Sep -14 |

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| **Requirements Covered** |
| Vehicle can be registered via online portal using the web services exposed method named registerVehicle( ). |

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| **Purpose of test** |
| Testing the functionality of the web-service method as exposed by OpenXC backend. |

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| **Input Test Data** |
| 1. Vehicle registration number. 2. Vehicle chassis number. 3. Vehicle make name. 4. Vehicle model name. 5. Owner contact number. 6. Owner email Id. |

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| **Prerequisites** |
| Internet connectivity is required along with browser to access the portal. |

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| **Test Steps** |
| |  |  |  | | --- | --- | --- | | **#** | **Description** | **Expected Outcome** | | **TC1.01** | Login to the portal by using shared Username and password provided in test doc. | Home page will be displayed. | | **TC1.02** | Click on Register Vehicle tab provided on top. | Registration form will be displayed below on the page. | | **TC1.03** | Fill the form completely by input the mandatory fields and click the submit button. | Registration successful and unique Id will be displayed on the portal. | |
| **Actual Outcome** |
| |  |  | | --- | --- | | **TC1.01** | Home page displayed. | | **TC1.02** | Registration form displayed below on the page. | | **TC1.03** | Registration successful and unique Id displayed on the portal. |   **Screen shots at each stage as captured below -** |

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| **Results** |
| |  |  |  |  | | --- | --- | --- | --- | | **#** | **Date Run** | **Run By** | **Results** | | **TC1.01** | 22.9.2014 | Raghvender Mishra | C:\Users\raghvender.m\Desktop\Capture.PNG | | **TC1.02** | 22.9.2014 | Raghvender Mishra |  | | **TC1.03** | 22.9.2014 | Raghvender Mishra |  | |
| **Test Case Name** |
| Web service **method getRegisteredVehicleList()** testing through web portal. |

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| **Test Case ID** | TC2 | **Created By** | Raghvender Mishra |
| **Functional Description** | Viewing list of all the registered vehicles to the back end system. |  | 22-Sep -14 |

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| **Requirements Covered** |
| Displaying the list of all the registered vehicles using getRegisteredVehicleList () method of web- service. |

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| **Purpose of test** |
| Testing the functionality of the web-service method as exposed by OpenXC backend. |

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| **Input Test Data** |
| No input data required. |

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| **Prerequisites** |
| Internet connectivity is required along with browser to access the portal. |

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| **Test Steps** |
| |  |  |  | | --- | --- | --- | | **#** | **Description** | **Expected Outcome** | | **TC2.01** | Click on the **‘View Registered Vehicle’** Tab on top bar for viewing registered vehicles list. | List of registered vehicles will be displayed on the portal in tabular format. | | **TC2.02** | Click on the **‘View Registered Vehicle’** Tab on top bar for viewing registered vehicles list, when network is not available. | Error message is displayed in screen. | |
| **Actual Outcome** |
| |  |  | | --- | --- | | **TC2.01** | Detailed list of registered vehicles displayed on the portal in tabular format. | | **TC2.02** | Error occurred due to web service network issue. | |

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| **Results** |
| |  |  |  |  | | --- | --- | --- | --- | | **#** | **Date Run** | **Run By** | **Results** | | **TC2.01** | 22.9.2014 | Raghvender Mishra |  | | **TC2.02** | 22.9.2014 | Raghvender Mishra |  | |

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| **Test Case Name** |
| Web service method getVehicleCurrentLocation() and getAllVechicleCurrentLocation() testing through web portal. |

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| **Test Case ID** | TC3 | **Created By** | Raghvender Mishra |
| **Functional Description** | Tracking vehicle location for single vehicle or for all the vehicles. |  | 22-Sep -14 |

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| **Requirements Covered** |
| Tracking vehicle location for given vehicle or all vehicles through getVehicleCurrentLocation () and getAllVechicleCurrentLocation () methods of web service. |

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| **Purpose of test** |
| Testing the functionality of the web-service method as exposed by OpenXC backend. |

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| **Input Test Data** |
| Vehicle Registration number to be input for finding last location in case of finding location for single vehicle.  For all vehicle location data, no input data is required. |

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| **Prerequisites** |
| Internet connectivity is required along with browser to access the portal. |

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| **Test Steps** |
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| **Actual Outcome** |
| |  |  | | --- | --- | | **TC3.01** | Two different sections for one vehicle location and all vehicle location were displayed. | | **TC3.02** | Car registration number along with latitude, longitude and address displayed in tabular form. | | **TC3.03** | All vehicle location data populated in tabular format. | |

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| **Results** |
| |  |  |  |  | | --- | --- | --- | --- | | **#** | **Date Run** | **Run By** | **Results** | | **TC3.01** | 22.9.2014 | Raghvender Mishra |  | | **TC3.02** | 22.9.2014 | Raghvender Mishra |  | | **TC3.03** | 22.9.2014 | Raghvender Mishra |  | |

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| **Test Case Name** |
| Web service method **showRoute()** testing through web portal. |

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| **Test Case ID** | TC4 | **Created By** | Raghvender Mishra |
| **Functional Description** | Tracking the vehicle traversed route for given vehicle. |  | 22-Sep -14 |

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| **Requirements Covered** |
| Vehicle traversed route is displayed in latitude and longitude form through showRoute() method of web services. |

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| **Purpose of test** |
| Testing the functionality of the web-service method as exposed by OpenXC backend. |

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| **Input Test Data** |
| Given vehicle registration number. |

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| **Prerequisites** |
| Internet connectivity is required along with browser to access the portal. |

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| **Test Steps** |
| |  |  |  | | --- | --- | --- | | **#** | **Description** | **Expected Outcome** | | **TC4.01** | Enter the Vehicle Registration Number to be tested and click submit button. | Vehicle route will be displayed in latitude, longitude tabular form for given vehicle. | |
| **Actual Outcome** |
| |  |  | | --- | --- | | **TC4.01** | Vehicle route displayed in latitude, longitude tabular data for given vehicle. | |

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| **Results** | | | | | |
| **#** | **Date Run** | **Run By** | **Results** |
| **TC4.01** | 22.9.2014 | Raghvender Mishra |  |
| **Testing of exposed Web Services through Android App**   |  | | --- | | **Test Case Name** | | Web service method registerVehicle() testing through APK. |  |  |  |  |  | | --- | --- | --- | --- | | **Test Case ID** | TC1 | **Created By** | Manu Jaggi | | **Functional Description** | Register on server to create a unique id for registered vehicle |  | 22-Sep -14 |  |  | | --- | | **Requirements Covered** | | Registration Process for vehicle on device through registerVehicle () method of web service. |  |  | | --- | | **Purpose of test** | | Testing the functionality of the web-service method as exposed by OpenXC backend on mobile device |  |  | | --- | | **Input Test Data** | | 1. Vehicle registration number. 2. Vehicle chassis number. 3. Vehicle make name. 4. Vehicle model name. 5. Owner contact number. 6. Owner email Id. |  |  | | --- | | **Prerequisites** | | Internet connectivity is needed on the device |  |  | | --- | | **Test Steps** | | |  |  |  | | --- | --- | --- | | **#** | **Description** | **Expected Outcome** | | **TC1.01** | Register Car on Cloud Server | Vehicle Reg. No., Unique ID | | | **Actual Outcome** | | |  |  | | --- | --- | | **TC1.01** | Unique registration ID displayed on the screen after successful registration. | |  |  | | --- | | **Results** | | |  |  |  |  | | --- | --- | --- | --- | | **#** | **Date Run** | **Run By** | **Results** | | **TC1.01** | 22.9.2014 | Manu Jaggi | C:\Users\jaggi.m\Desktop\New folder\Screenshot_2014-09-22-12-39-33.png | |  |  | | --- | | **Test Case Name** | | Web service method uploadVehicleData () testing through APK. |  |  |  |  |  | | --- | --- | --- | --- | | **Test Case ID** | TC2 | **Created By** | Manu Jaggi | | **Functional Description** | Upload longitude ,latitude, vehicle speed |  | 22-Sep -14 |  |  | | --- | | **Requirements Covered** | | Upload location parameter and vehicle speed through uploadVehicleData () method of web service. |  |  | | --- | | **Purpose of test** | | Testing the functionality of the web-service method as exposed by OpenXC backend. |  |  | | --- | | **Input Test Data** | | Location (Latitude, Longitude ): Current location  Vehicle Speed: Current Vehicle Speed  Timestamp: Unix Time Stamp |  |  | | --- | | **Prerequisites** | | Fetch Longitude, Latitude, Vehicle Speed and Time stamp from OpenXC Library of running vehicle and send this data to server. |  |  | | --- | | **Test Steps** | | |  |  |  | | --- | --- | --- | | **#** | **Description** | **Expected Outcome** | | **TC2.01** | Upload Vehicle parameter i.e. get the android application running. | Data upload counter displayed on top right corner. | | | **Actual Outcome** | | |  |  | | --- | --- | | **TC2.01** | Data upload Counting was increasing as the data was uploaded to server. | |  |  | | --- | | **Results** | | |  |  |  |  | | --- | --- | --- | --- | | **#** | **Date Run** | **Run By** | **Results** | | **TC2.01** | 22.9.2014 | Manu Jaggi | C:\Users\jaggi.m\Desktop\New folder\Screenshot_2014-09-22-12-40-03.png | |  |  |  | | --- | --- | | **Test Case Name** | **Test Case Name** | | Web service method getVehicleCurrentLocation () testing through APK. | Get Location |  |  |  |  |  | | --- | --- | --- | --- | | **Test Case ID** | TC3 | **Created By** | Manu Jaggi | | **Functional Description** | Get location parameters and address from server |  | 22-Sep -14 |  |  | | --- | | **Requirements Covered** | | Get last known location from server using getVehicleCurrentLocation () method of web service. |  |  | | --- | | **Purpose of test** | | Testing the functionality of the web-service method as exposed by OpenXC backend. |  |  | | --- | | **Input Test Data** | | Registration Id taken by android code internally, this is generated when registration is done through apk. |  |  | | --- | | **Prerequisites** | | Internet connectivity is needed on the device so that it connects to the backend OpenXC server. |  |  | | --- | | **Test Steps** | | |  |  |  | | --- | --- | --- | | **#** | **Description** | **Expected Outcome** | | **TC3.01** | Get Location | Address with longitude and latitude. | | | **Actual Outcome** | | |  |  | | --- | --- | | **TC3.01** | Displayed the last known Location of given Vehicle. | | **TC3.02** | Data is neither uploaded nor getting the location as the tab is switched to restricted network. | |  |  | | --- | | **Results** | | |  |  |  |  | | --- | --- | --- | --- | | **#** | **Date Run** | **Run By** | **Results** | | **TC3.01** | 22.9.2014 | Manu Jaggi | C:\Users\jaggi.m\Desktop\New folder\Screenshot_2014-09-22-13-00-19.png | | **TC3.02** | 22.9.2014 | Manu Jaggi | C:\Users\raghvender.m\Desktop\New change\Screenshot_2014-09-23-17-02-09.png | | | | | | | |

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