User Guide

C2 UI Checks Automation

Prerequisites

Before you begin, ensure you have the following installed on your system:

1. **Python** (version 3.6 or later)
2. **pip** (Python package installer)
3. **GRL_C2_BROWSER_APP**

Step 1: Install Selenium WebDriver

Selenium WebDriver is a powerful tool for controlling web browsers through programs and performing browser automation.

Installation: Open your terminal or command prompt and run the following command:

```
>> pip install selenium
```

Verification: To verify the installation, you can run a simple script to check if Selenium is working:

1.Create a Python Script:

Open your preferred text editor or IDE (such as VS Code, PyCharm, or any text editor).

2.Write the Script:

```
from selenium import webdriver

driver = webdriver.Chrome

driver.get("https://www.google.com")

print("Page title:", driver.title)

driver.quit()

print("Selenium is successfully imported and working.")
```

3.Save and Run the Script:

- Save the script with a .py extension, for example, selenium_test.py.
- Now run selenium_test.py.
- If Selenium is imported correctly and the WebDriver launches Chrome and accesses Google, you should see output similar to:

```
Page title: Google

Selenium is successfully imported and working.
```

Make sure you have the appropriate WebDriver for your browser in the directory:

"UI Checks Automation\Resources\chromedriver-win64\chromedriver.exe".

For example, if you're using Chrome, download the ChromeDriver from here.

Step 2: Install PyYAML

Open your terminal or command prompt and run the following command:

```
>> pip install PyYAML
```

PyYAML is a YAML parser and emitter for Python.

Step 3: Install Logging

Open your terminal or command prompt and run the following command:

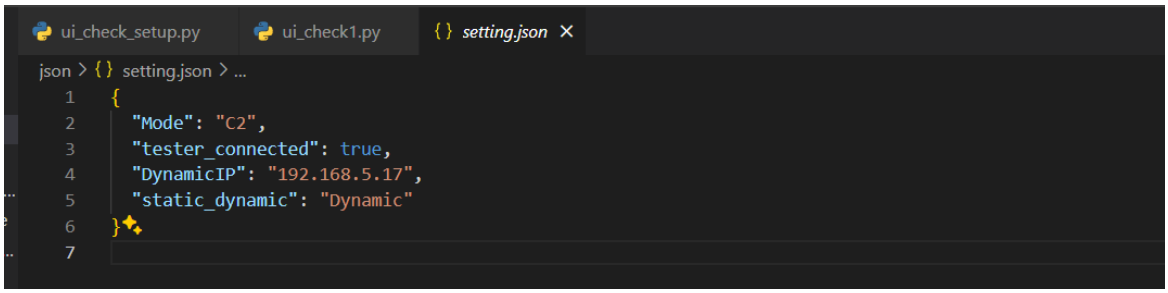
```
>>pip install logging
```

Logging is a module for Python that provides a flexible framework for emitting log messages from Python programs.

Step 4: Changing the mode

In the directory *“UI Checks Automation\json\setting.json”*, update the following fields in the YAML File:

1. **Mode**: If the Tester is "C2", set the mode to "C2". If the Tester is "C2 EPR", set the mode to "C2EPR".
2. **DynamicIP**: Update the IP address as needed. (ex. 192.168.5.17)
3. **Static_dynamic**: Modify this field based on how the tester is connected to the computer. (ex. Static or Dynamic).

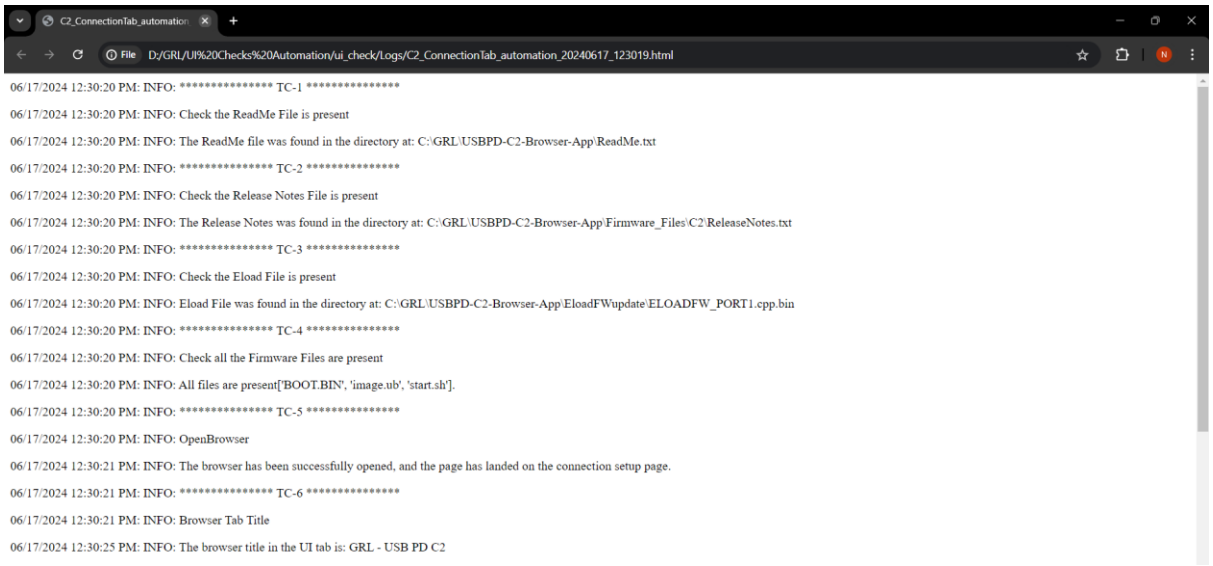


Step 5: Execute the Program

Run the ui_check_setup.py script in Visual Studio Code and wait for 2-3 minutes for the execution to complete.

After execution the logs will be stored in the directory.

“UI Checks Automation \ui_check\Logs”.



Test Cases:

TC-1: Check whether the ReadMe File is present in the specific directory.

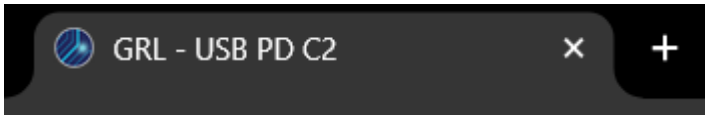
TC-2: Check whether the Release Notes File is present in the specific directory.

TC-3: Check whether the Eload File is present in the specific directory.

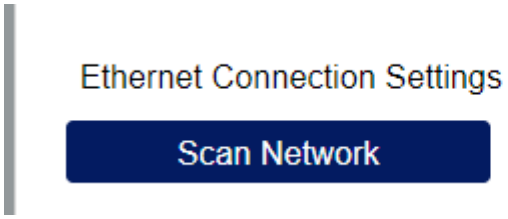
TC-4: Check whether all the Firmware Files are present in the specific directory.

TC-5: Check whether the Browser opens

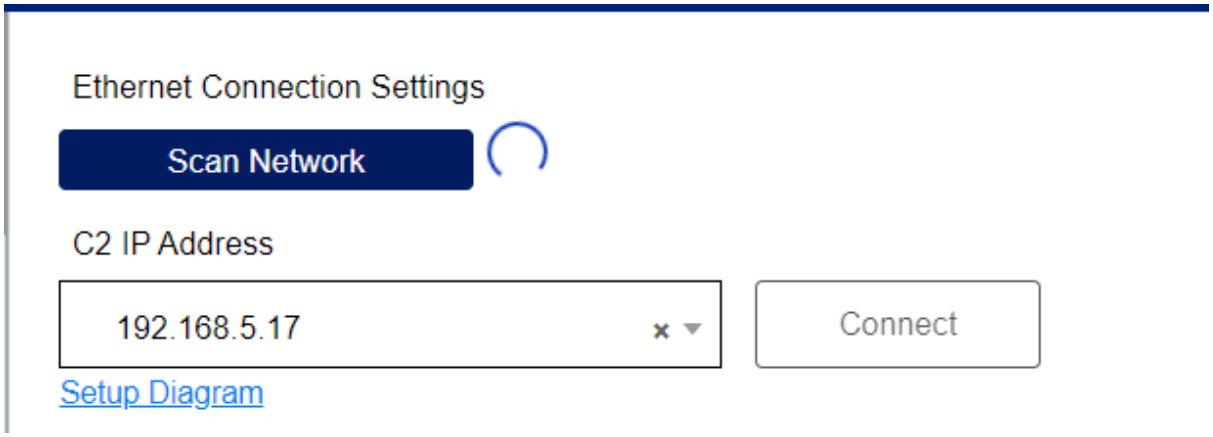
TC-6: Fetch the Browser Tab Title



TC-7: Check whether that the Scan Network Button is present and whether it's clickable or not.



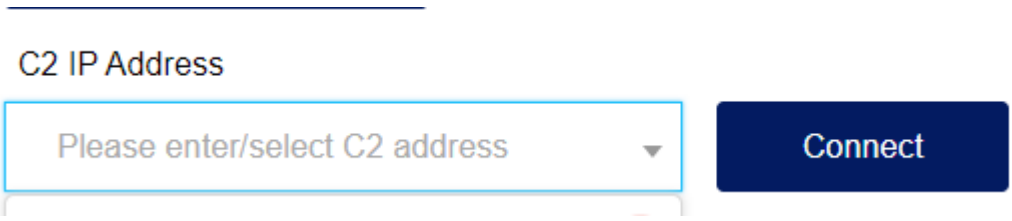
TC-8: Check whether that after clicking the Scan network button, the loading icon is visible, and the connect button should be disabled, and vice versa



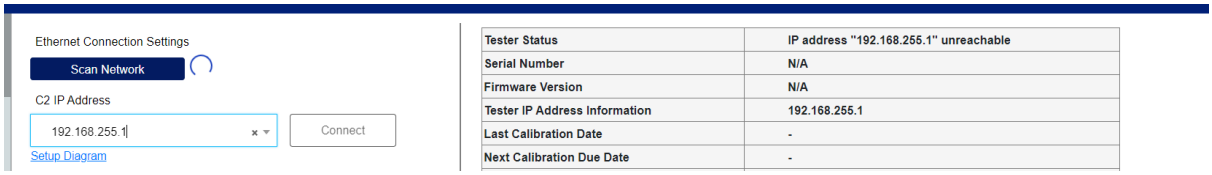
TC-9: Please ensure that the device details keys are correctly present on the connection setup page

Tester Status
Serial Number
Firmware Version
Tester IP Address Information
Last Calibration Date
Next Calibration Due Date
Test Cable Calibration Status
C2 Tester Calibration

TC-10: Verify the address Text

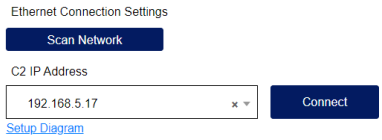


TC-11: Clicking the scan network, verify default IP is present in the C2 IP Address input box and connect



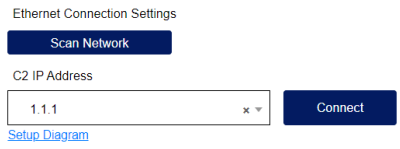
Tester Status	IP address "192.168.255.1" unreachable
Serial Number	N/A
Firmware Version	N/A
Tester IP Address Information	192.168.255.1
Last Calibration Date	-
Next Calibration Due Date	-

TC-12: Verify Connection with Dynamic IP and Verify the Tester Status



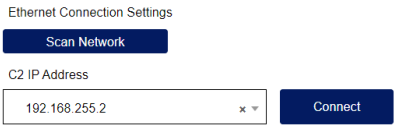
Tester Status	Connected
Serial Number	342.487.342.057.354.
Firmware Version	2.1.94 / 9.8 / 9.8
Tester IP Address Information	192.168.5.17
Last Calibration Date	2021-11-23
Next Calibration Due Date	2023-02-22

TC-13: Pass Invalid IP Address and Verify the Tester Status



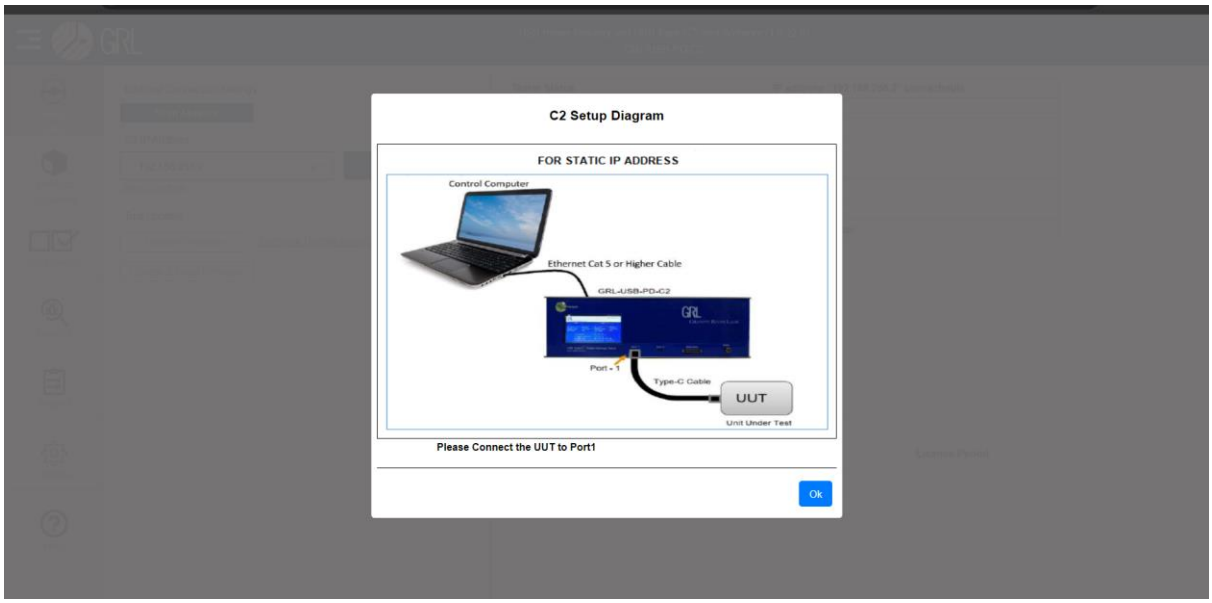
Tester Status	Invalid IP address format : 1.1.1
Serial Number	N/A
Firmware Version	N/A
Tester IP Address Information	1.1.1
Last Calibration Date	-
Next Calibration Due Date	-

TC-14: Pass Unreachable IP Address and Verify the Tester Status

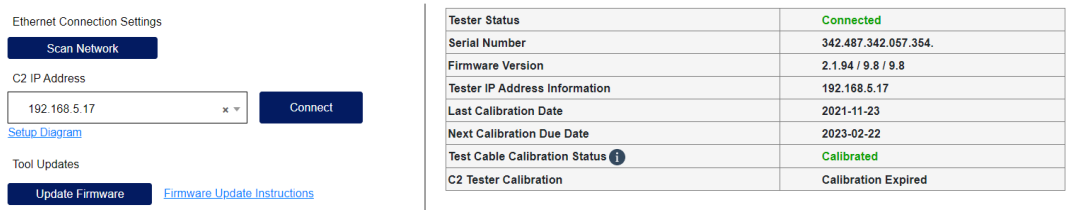


Tester Status	IP address "192.168.255.2" unreachable
Serial Number	N/A
Firmware Version	N/A
Tester IP Address Information	192.168.255.2
Last Calibration Date	-
Next Calibration Due Date	-

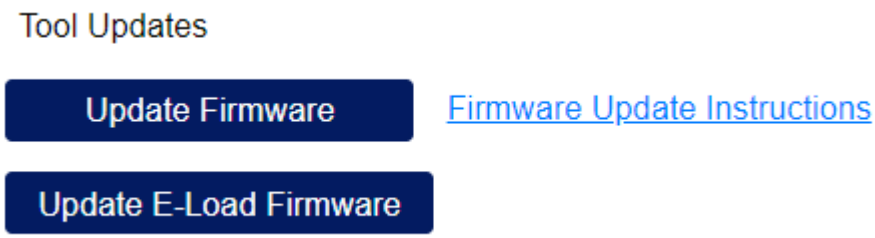
TC-15: Verify the Setup Diagram



TC-16: Please ensure that the software and hardware details keys are correctly present on the connection setup page



TC-17: Check that the Firmware Update Button is present and whether it's clickable or not.



TC-18: Check that the Firmware Update Button is clicked and the Tester is Restarted