

Wireless auto switch base on AP repeater

Version 1.0

Version History

Version	Date	Handled by	Comments
V1.0	27-May-2019	ZL Chen	First version release.

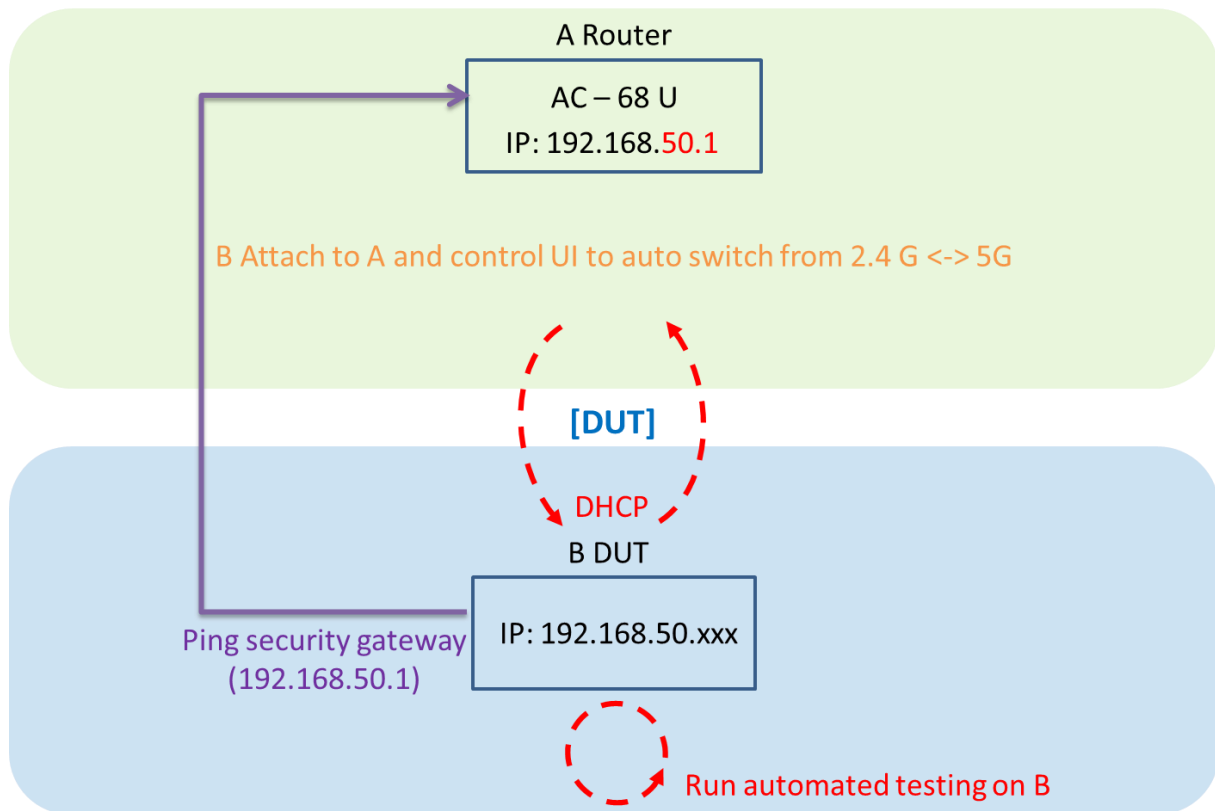
Precondition Setting:

Please make sure the DUT is connected to the internet.

- Setting the User Account Control Setting.
 - ✓ Please refer to the “[User Account Control Setting.pdf](#)” attachment
(\automation\sop\other\User Account Control Setting)
- Install the Chrome browser.
 - ✓ Please refer to the “[Chrome browser installation.pdf](#)” attachment.
(\automation\sop\other\Chrome browser installation.pdf)
- Install the Python 3.6.8.
 - ✓ Please refer to the “[Python 3.6.8 installation.pdf](#)” attachment.
(\automation\sop\other\Python 3.6.8 installation.pdf)
- Install the third party library.
 - ✓ Double click the “[Envir_Install.exe](#)” under the installer folder.
(\automation\installer\Envir_Install.exe)

System Structure:

[Router and Repeater Environment]



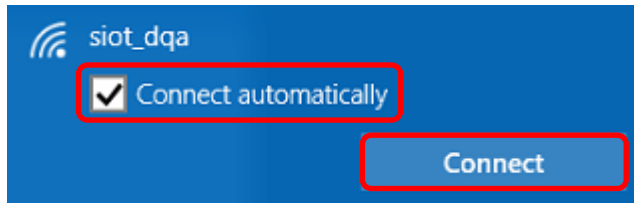
Please follow the implement as below:

Step 1:

Please make sure the Wi-Fi is connecting to the repeater.

SSID: [siot_dqa](#)

Password: [ad20151225](#)



Step 2:

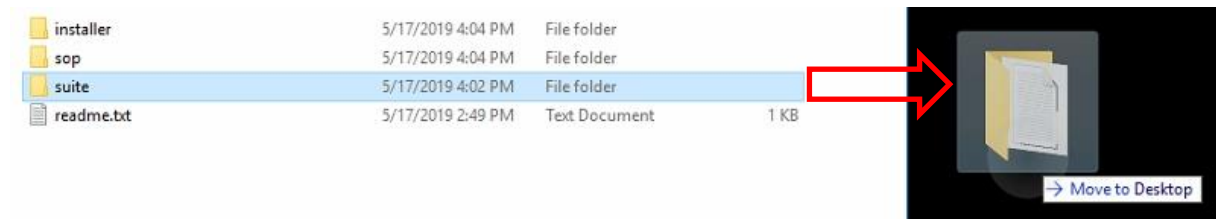
Please delete all of the [known networks](#), because you need make sure the network just only attach to the “siot_dqa” repeater.

Manage known networks



Step 3:

Please copy the roaming folder to the DUT's desktop.



Implement the wireless_switch.pyc under the “\suite\wireless_switch\” folder.

```
Directory of C:\Users\DQA\Desktop\suite\wireless_switch
08/27/2019  10:49 AM    <DIR>          .
08/27/2019  10:49 AM    <DIR>          ..
08/27/2019  10:49 AM    <DIR>          backup
05/17/2019  10:13 AM                367 backup_log.bat
08/19/2019  10:46 AM            8,543,744 chromedriver.exe
08/27/2019  10:36 AM                6,396 wireless_switch.pyc
               3 File(s)            8,550,507 bytes
               3 Dir(s)  184,058,036,224 bytes free

C:\Users\DQA\Desktop\suite\wireless_switch>wireless_switch.pyc
```

Step 4:

Please input the “Cycle Times”, “Frequency”, “SSID name”, “user name” and “password” you want. (Ex: 1), and then tap the “Enter”.

Please input the Gateway. (Ex: 192.168.50.1), and tap the “Enter”.

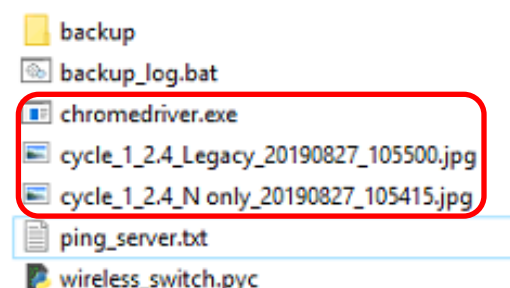
The program is start running.

```
找不到 D:\code\automation\suite\wireless_switch\*.txt
找不到 D:\code\automation\suite\wireless_switch\*.log
找不到 D:\code\automation\suite\wireless_switch\*.jpg
錯誤: 找不到處理程序 "chromedriver.exe"。
Cycle times: 1
Frequency (ex: 2.4 or 5): 2.4
SSID name (ex: siot_dqa): siot_dqa
AP's user name (ex: admin): admin
AP's password (ex: xxxxxxxx): ad20151225
```

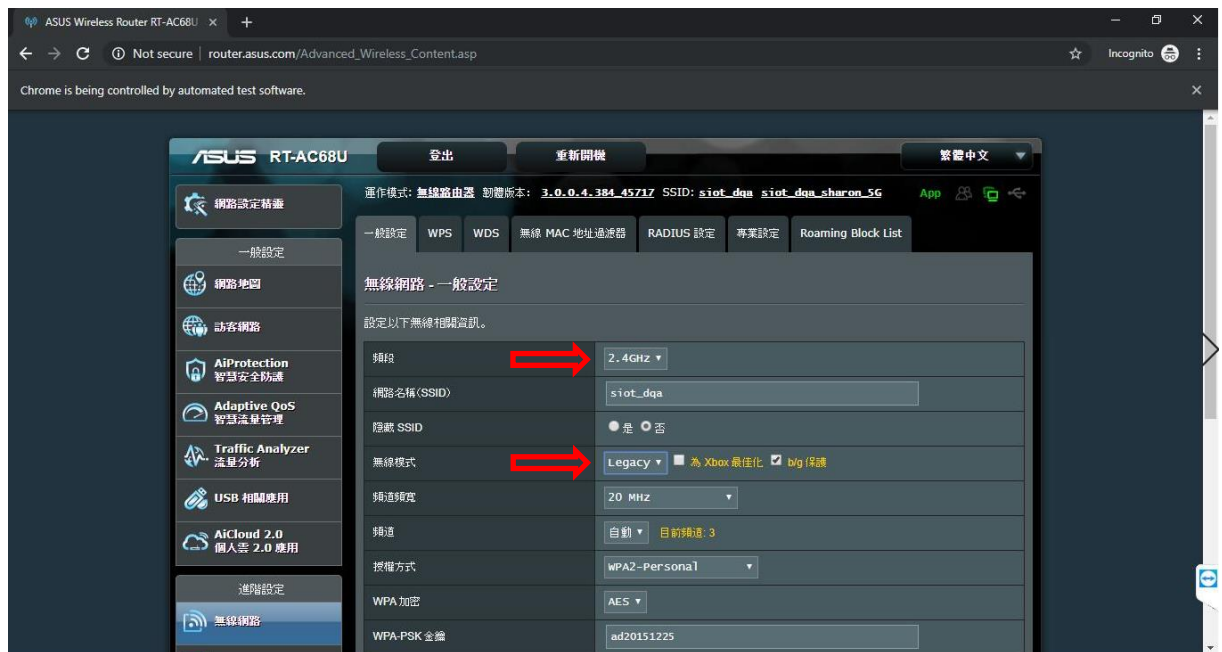
Step 5:

When the program is completed, the windows should be closed.

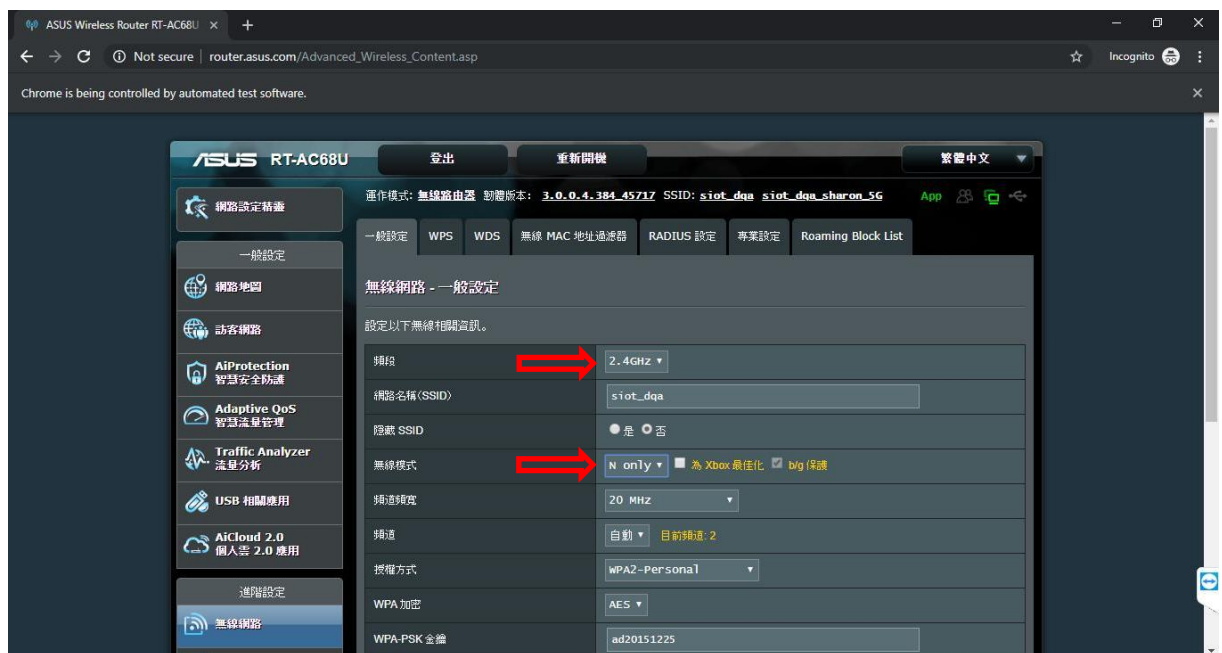
You can see the log under the “\wireless_switch\” folder as below:



➤ cycle_1_2.4_Legacy_20190827_105500.jpg



➤ cycle_1_2.4_N only_20190827_105415.jpg



➤ ping_server.txt

ping_server.txt - Notepad

File Edit Format View Help

```
Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=2ms TTL=53
Reply from 8.8.8.8: bytes=32 time=4ms TTL=53
Reply from 8.8.8.8: bytes=32 time=13ms TTL=53
Reply from 8.8.8.8: bytes=32 time=3ms TTL=53
.

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 13ms, Average = 5ms
The connection is Passed.(PASS)
Cycle Times: 1, Passed: 1, Failed: 0 ←
Pinging 8.8.8.8 with 32 bytes of data:
Request timed out. |
Reply from 8.8.8.8: bytes=32 time=6ms TTL=53
Reply from 8.8.8.8: bytes=32 time=5ms TTL=53
Reply from 8.8.8.8: bytes=32 time=3ms TTL=53
.

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 6ms, Average = 4ms
The connection is Passed.(PASS)
Cycle Times: 1, Passed: 2, Failed: 0
Total Cycle Times: 1, Passed: 2, Failed: 0 ←
```