

Airplane mode of Wireless WAN automated testing

Version 1.0

Version History

Version	Date	Handled by	Comments
V1.0	10-June-2019	ZL Chen	First version release.
V2.0	12-June-2019	ZL Chen	Second version release for WWAN.

Precondition Setting:

Please make sure the DUT is connected to the internet.

- Install the adb interface driver
 - ✓ Please refer to the “[ADB interface driver.pdf](#)” attachment.
(\automation\sop\other\ADB interface driver.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)

Please follow the implement as below:

Block Diagram:

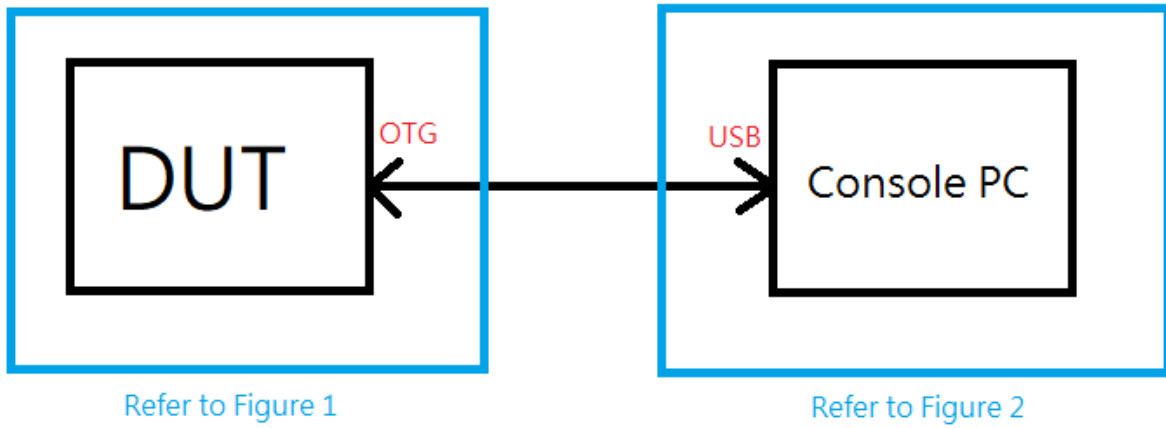


Figure 1

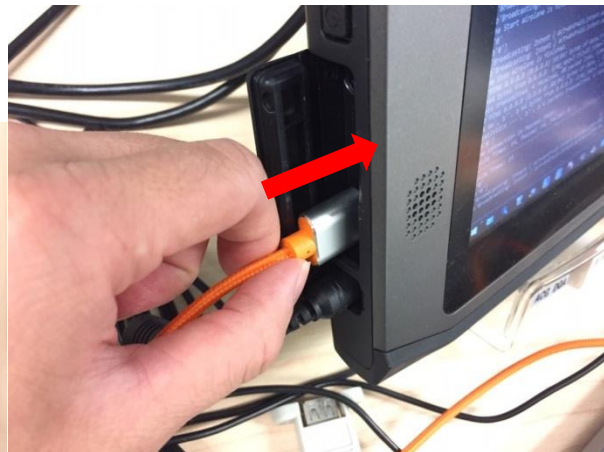
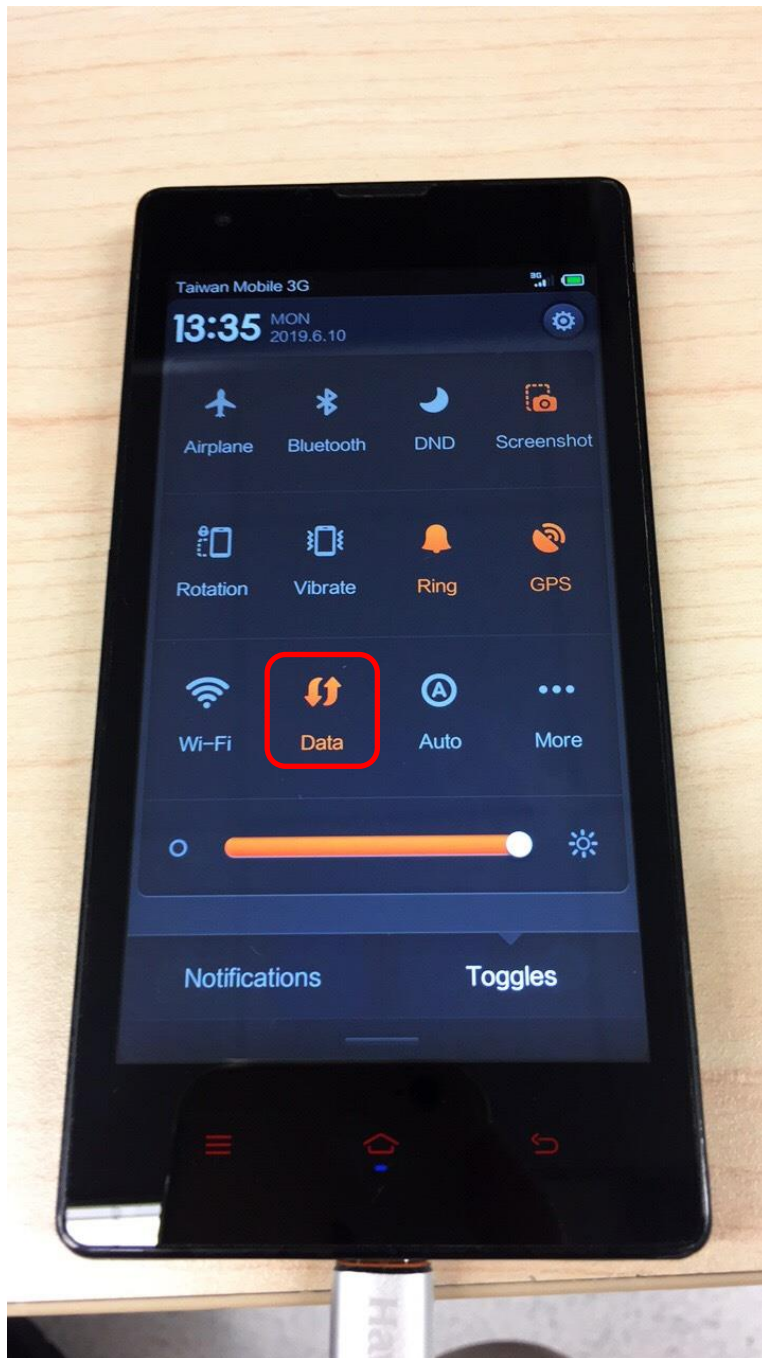


Figure 2

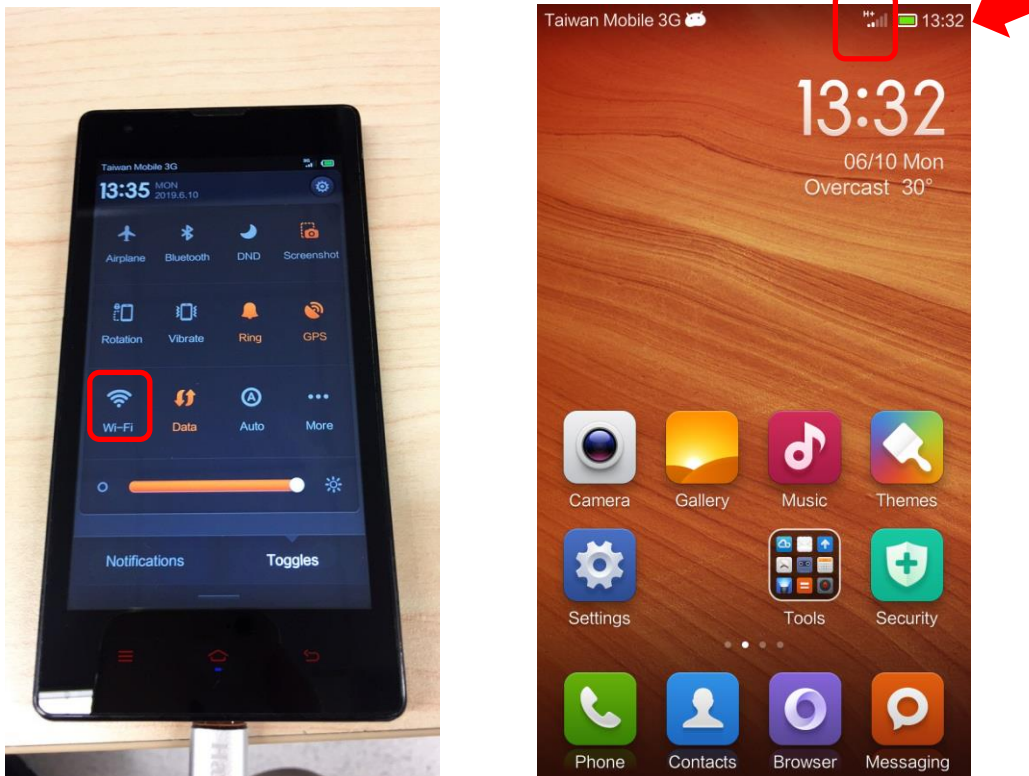
Step 1:

Please make sure the 3G is connecting to the repeater. (Figure 1)



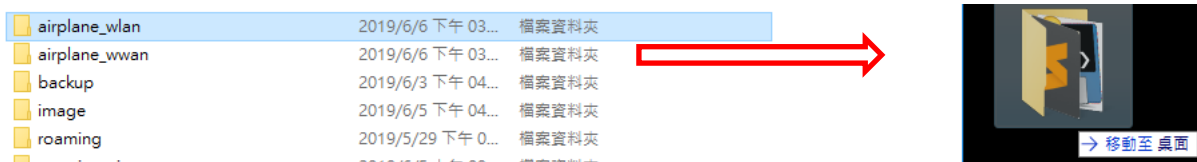
Step 2:

Please shutdown the Wi-Fi, make sure the 3G connection is finished.(Figure 1)



Step 3:

Please copy the airplane_wwan folder of the suite to the device's desktop. (Figure 2)



Make sure the adb.exe should be worked, so please input the window command as below:

(Figure 2)

Command: “adb.exe kill-server” and “adb.exe start-server”

```
C:\Users\DQA\Desktop\suite\airplane_wwan>adb kill-server

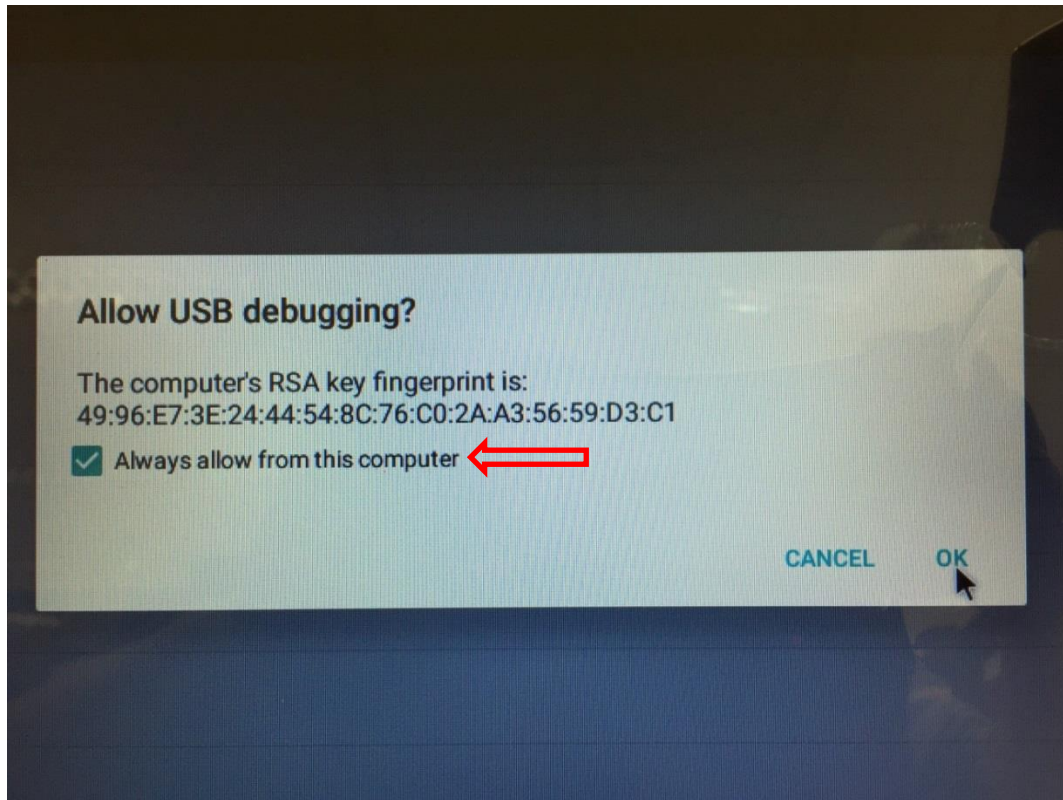
C:\Users\DQA\Desktop\suite\airplane_wwan>adb start-server
* daemon not running. starting it now on port 5037 *
* daemon started successfully *
```

Command: “adb.exe devices”

```
C:\Users\DQA\Desktop\suite\airplane_wwan>adb devices
List of devices attached
ZDSGAU07S79Q4A6      device

C:\Users\DQA\Desktop\suite\airplane_wwan>
```

Make sure the “Allow USB debugging” alert is pop up on the DUT window. (Figure 1)
Please check the “Always allow from this computer” box, then tap the “OK” button.



Implement the airplane_wlan.exe under the “\airplane_wwan\” folder. (Figure 2)

A screenshot of a Windows command prompt window titled "命令提示字元 - airplane_wlan.exe". The window contains the following text:
Created on 2019/05/23
Author: ZL Chen
Title: The Wi-Fi should be worked after the airplane mode is switch on/off.

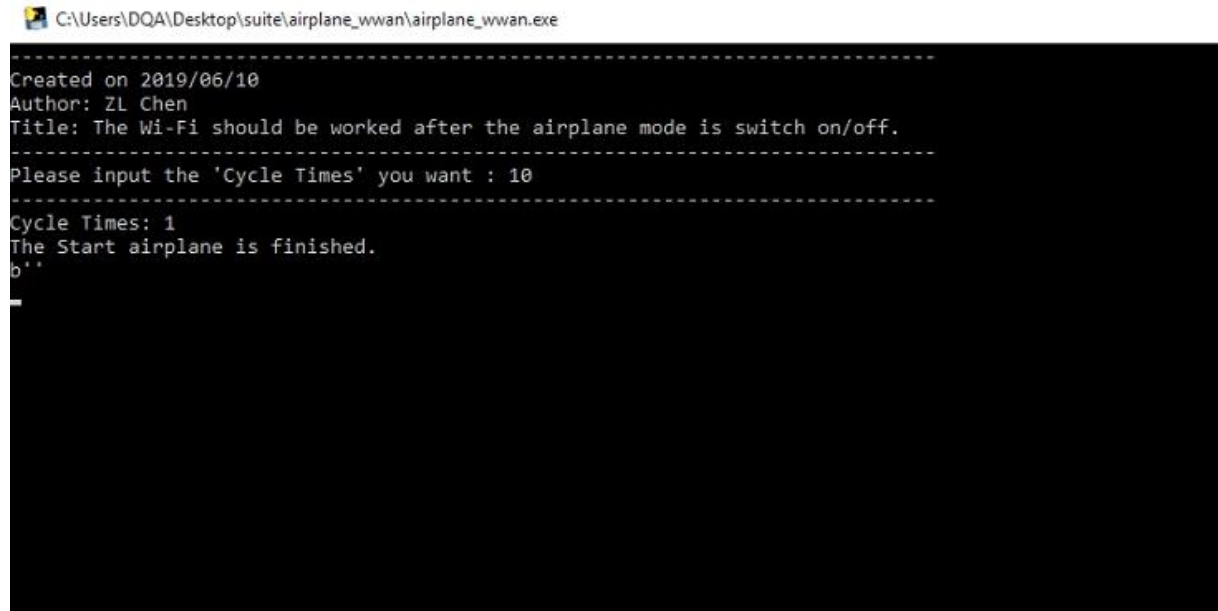
找不到 D:\code\automation\suite\airplane_wlan*.txt
找不到 D:\code\automation\suite\airplane_wlan*.jpg
Please input the 'Cycle Times' you want :
A red arrow points to the prompt "Please input the 'Cycle Times' you want :".

Step 4:

Please input the “Cycle Times” you want. (Ex: 1), and then tap the “Enter”. (Figure 2)

Please input the Gateway. (Ex: 8.8.8.8), and tap the “Enter”. (Figure 2)

The program is start running.

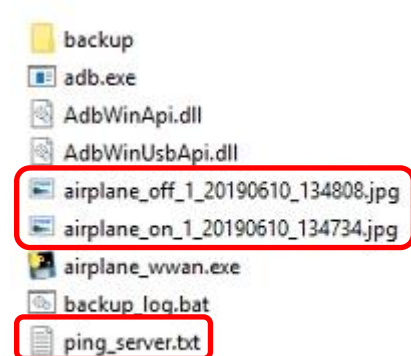


```
C:\Users\DQA\Desktop\suite\airplane_wwan\airplane_wwan.exe
-----
Created on 2019/06/10
Author: ZL Chen
Title: The Wi-Fi should be worked after the airplane mode is switch on/off.
-----
Please input the 'Cycle Times' you want : 10
-----
Cycle Times: 1
The Start airplane is finished.
b''
_
```

Step 5:

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

You can see the log under the “\airplane_wwan\” folder as below: (Figure 2)

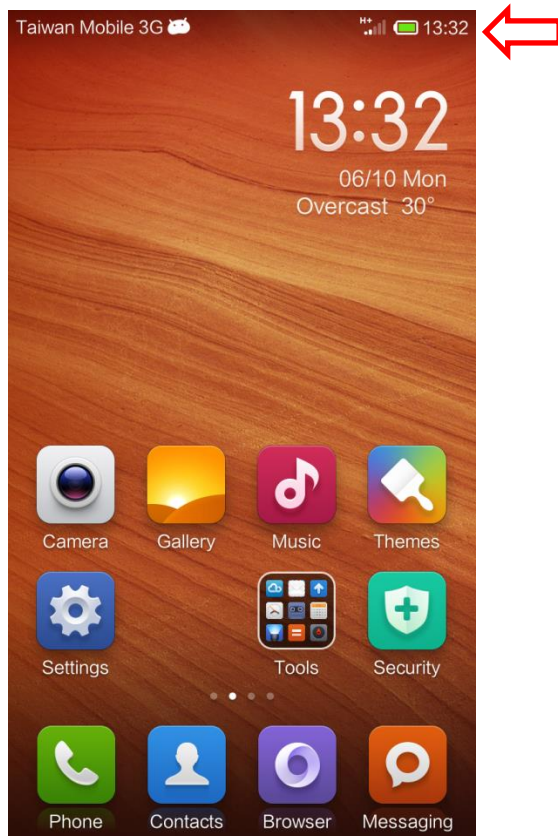


- ping_server.txt is ping log.

```
ping_server.txt - Notepad
File Edit Format View Help
-----
Cycle Times: 1
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.'
.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=54 time=107 ms'
.
64 bytes from 8.8.8.8: icmp_seq=2 ttl=54 time=46.7 ms'
.
64 bytes from 8.8.8.8: icmp_seq=3 ttl=54 time=44.6 ms'
.
64 bytes from 8.8.8.8: icmp_seq=4 ttl=54 time=43.6 ms'
.
.
--- 8.8.8.8 ping statistics ---
.
4 packets transmitted, 4 received, 0% packet loss, time 3004ms'
.
The connection is Passed.(PASS)
Cycle Times: 1, Passed: 1, Failed: 0
-----
```

The Total Cycle Times is 1, Passed is 1 and Failed is 0.

- airplane_off_1_20190610_134808.jpg is airplane switch off by screenshot.



- airplane_on_1_20190610_134734.jpg is airplane switch on by screenshot.

