

|  |  |  |
| --- | --- | --- |
|  | Stability Station 1 for EU | Stability Station 2 for EU |
| CM Config file | 9\_Wifi\_Stability1.cfg | 9\_Wifi\_Stability2.cfg |
| MTA Config file | 9\_EU\_NCS\_Secure.BIN | 9\_EU\_NCS\_Secure.BIN |
| GRE Server | 2002:db50:fa13:1::127 | 2002:db50:fa13:1::127 |
| CM Policy (ipv4) | 9\_Wifi\_Stability1 | 9\_Wifi\_Stability2 |
| CM Policy (IPv6) | 9\_Basic\_CMv6\_None | 9\_Basic\_CMv6\_None |
| MTA policy | 9\_wifi\_stability\_MTA | 9\_wifi\_stability\_MTA |
| BPI | On | On |

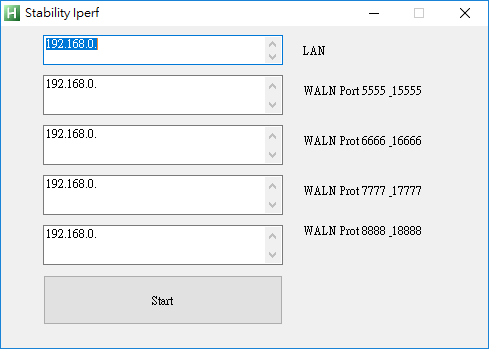
|  |  |
| --- | --- |
|  | Stability Station for NA |
| CM Config file | 9\_Wifi\_Stability1\_NA.cfg |
| MTA Config file | 9\_NA\_NCS\_Secure.BIN |
| GRE Server | 2002:db50:fa13:1::127 |
| CM Policy (ipv4) | 9\_Wifi\_Stability1\_NA |
| CM Policy (IPv6) | 9\_Basic\_CMv6\_None |
| MTA policy | 9\_wifi\_stability\_MTA\_NA |
| BPI | Off |

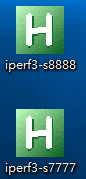
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Device ID | Device name | MAC address | Connected to | SSID Link | Username/Pws |
| **DUT** | **CH7465CE** | **38:43:7d:80:09:bf** |  |  |  |
| Task1 | Call A to B | |  | | |
| **Stab-1** | **T125035-630MT-2** | **88:D7F6:57:A6:CB** | **Ethernet** |  |  |
| Task1 | Run Iperf3 client with Stab-2 | | Command: Iperf3.exe –c Stab-2 –I 1 -w2M -t 86400 -b 20M –p 5555  Command: Iperf3.exe –c Stab-2 –I 1 -w2M -t 86400 -b 20M –p 15555 -R | | |
| Task2 | Run Iperf3 client with Stab-3 | | Command: Iperf3.exe –c Stab-3 –I 1 -w2M -t 86400 -b 20M –p 6666  Command: Iperf3.exe –c Stab-3 –I 1 -w2M -t 86400 -b 20M –p 16666 -R | | |
| Task3 | Run Iperf3 client with Stab-4 | | Command: Iperf3.exe –c Stab-4 –I 1 -w2M -t 86400 -b 20M –p 7777  Command: Iperf3.exe –c Stab-4 –I 1 -w2M -t 86400 -b 20M –p 17777 -R | | |
| Task4 | Run Iperf3 client with Stab-5 | | Command: Iperf3.exe –c Stab-5 –I 1 -w2M -t 86400 -b 20M –p 8888  Command: Iperf3.exe –c Stab-5 –I 1 -w2M -t 86400 -b 20M –p 18888 -R | | |
| Task5 | Play YouTube on Chrome browser | | EBC 東森新聞51頻道直播 | | |
| Task6 | Record the atom and arm log | |  | | |
| Tesk7 | Run ping | | Ping 192.168.0.1 -t | | |
| **Stab-2** | **MacBook pro** | **60:F8:1D:BA:2D:5C** | **Wi-Fi Primary 5G** | **Stab\_Test5G\_1** | **12345678** |
| Task1 | Run Iperf3 Server | | Command: Iperf3.exe –s –i 1 –p 5555  Command: Iperf3.exe –s –i 1 –p 15555 | | |
| Task2 | Play YouTube on Chrome browser | | EBC 東森新聞51頻道直播 | | |
| Tesk3 | Run ping | | Ping 192.168.0.1 -t | | |
| **Stab-3** | **MacBook Air** | **A4:D1:8C:CD:78:D8** | **Wi-Fi Primary 2.4G** | **Stab\_Test24G\_1** | **12345678** |
| Task1 | Run Iperf3 Server | | Command: Iperf3.exe –s –i 1 –p 6666  Command: Iperf3.exe –s –i 1 –p 16666 | | |
| Task2 | Play YouTube on Chrome browser | | EBC 東森新聞51頻道直播 | | |
| Tesk3 | Run ping | | Ping 192.168.0.1 -t | | |
| **Stab-4** | **Asus AC88** | **34:97:F6:B6:D3:5B** | **Wi-Fi Primary 5G** | **Stab\_Test5G\_1** | **12345678** |
| Task1 | Run Iperf3 Server | | Command: Iperf3.exe –s –i 1 –p 7777  Command: Iperf3.exe –s –i 1 –p 17777 | | |
| Task2 | Play YouTube on Chrome browser | | EBC 東森新聞51頻道直播 | | |
| Tesk3 | Run ping | | Ping 192.168.0.1 -t | | |
| **Stab-5** | **Asus AC88** | **34:97:F6:B6:D3:5F** | **Wi-Fi Primary 2.4G** | **Stab\_Test24G\_1** | **12345678** |
| Task1 | Run Iperf3 Server | | Command: Iperf3.exe –s –i 1 –p 8888  Command: Iperf3.exe –s –i 1 –p 18888 | | |
| Task2 | Play YouTube on Chrome browser | | EBC 東森新聞51頻道直播 | | |
| Tesk3 | Run ping | | Ping 192.168.0.1 -t | | |
| **Stab-6** | **iPhone 8 plus** | **E4:2b:34:42:14:D4** | **Wi-Fi Primary 5G** | **Stab\_Test5G\_1** | **12345678** |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-7** | **iPhone 8** | **5D:BC96:B0:EF:C7** | **Wi-Fi Primary 2.4G** | **Stab\_Test24G\_1** | **12345678** |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-8** | **Apple-TV** | **D0:4F:7E:14:A6:6F** | **Wi-Fi Primary 5G** | **Stab\_Test5G\_1** | **12345678** |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-9** | **Chromecast** | **54:60:09:1C:2D:94** | **Wi-Fi Primary 2.4G** | **Stab\_Test24G\_1** | **12345678** |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-10** | **Galaxy-Note8** | **04:D6:AA:73:29:2F** | **Wi-Fi Primary 5G** | **Stab\_Guest\_5G\_1** |  |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-11** | **IPHONE X** | **3C:2E:EF:23:75:AF** | **Wi-Fi Primary 2.4G** | **Stab\_Guest\_24G\_1** |  |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-12** | **iPad pro 10** | **78:7B:8A:3E:D6:0F** | **Wi-Fi Hotspot 5G** | **Stab\_HOT\_5G\_1** | **cbn/cbn** |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-13** | **IPAD PRO 13INCH** | **DC:56:E7:0C:05:01** | **Wi-Fi HotSpot 2.4G** | **Stab\_HOT\_24G\_1** | **cbn/cbn** |
| Task1 | Play youtube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-14** | **Acer travelmate4730** | **00:6D:52:F2:0C:1F** | **Wi-Fi Primary 2.4G**  **Wi-Fi Primary 5G** |  |  |
| Task1 | Run toggle script /home/cbn/toogle.sh | | Ping 8.8.8.8 | | |
| **Stab-15** | **SAMSUNG S5** | **F0:25:87:BD:AD:19** | **Wi-Fi Primary 2.4G** | **Stab\_Guest\_24G\_1** | **12345678** |
| Task1 | CHROMECAST SOURCE | | EBC 東森新聞51頻道直播 | | |
| **Stab-16** | **NEXUS 9** | **B4:CE:F6:9D:C9:98** | **Wi-Fi Primary 2.4G**  **Wi-Fi Primary 5G** | **Stab\_Guest\_5G\_1** | **12345678** |
| Task1 | Play youtube on APP | | EBC 東森新聞51頻道直播 | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Device ID | Device name | MAC address | Connected to | SSID Link | Username/Pws |
| **DUT** | **CH7465CE** | **38:43:7d:80:03:B0** |  |  |  |
| Task1 | Call A to B | |  | | |
| **Stab-1** | **CBN-STB1** | **B0:6E:BF:CC:10:5C** | **Ethernet** |  |  |
| Task1 | Run Iperf3 client with Stab-2 | | Command: Iperf3.exe –c Stab-2 –I 1 -w2M -t 86400 -b 20M –p 5555  Command: Iperf3.exe –c Stab-2 –I 1 -w2M -t 86400 -b 20M –p 5555 -R | | |
| Task2 | Run Iperf3 client with Stab-3 | | Command: Iperf3.exe –c Stab-3–I 1 -w2M -t 86400 -b 20M –p 6666  Command: Iperf3.exe –c Stab-3 –I 1 -w2M -t 86400 -b 20M –p 16666 -R | | |
| Task3 | Run Iperf3 client with Stab-4 | | Command: Iperf3.exe –c Stab-4 –I 1 -w2M -t 86400 -b 20M –p 7777  Command: Iperf3.exe –c Stab-4 –I 1 -w2M -t 86400 -b 20M –p 17777 -R | | |
| Task4 | Run Iperf3 client with Stab-5 | | Command: Iperf3.exe –c Stab-5 –I 1 -w2M -t 86400 -b 20M –p 8888  Command: Iperf3.exe –c Stab-5 –I 1 -w2M -t 86400 -b 20M –p 18888 -R | | |
| Task5 | Play YouTube on Chrome browser | | EBC 東森新聞51頻道直播 | | |
| Task6 | Record the atom and arm log | |  | | |
| Tesk3 | Run ping | | Ping 192.168.0.1 -t | | |
| **Stab-2** | **MacBook pro** | **8C:85::90:A2:17:03** | **Wi-Fi Primary 5G** | **Stab\_Test5G\_2** | **12345678** |
| Task1 | Run Iperf3 Server | | Command: Iperf3.exe –s –i 1 –p 5555  Command: Iperf3.exe –s –i 1 –p 15555 | | |
| Task2 | Play YouTube on Chrome browser | | EBC 東森新聞51頻道直播 | | |
| Tesk3 | Run ping | | Ping 192.168.0.1 -t | | |
| **Stab-3** | **MacBook pro** | **8C:85:90:A2:14:4D** | **Wi-Fi Primary 2.4G** | **Stab\_Test24G\_2** | **12345678** |
| Task1 | Run Iperf3 Server | | Command: Iperf3.exe –s –i 1 –p 6666  Command: Iperf3.exe –s –i 1 –p 16666 | | |
| Task2 | Play YouTube on Chrome browser | | EBC 東森新聞51頻道直播 | | |
| Tesk3 | Run ping | | Ping 192.168.0.1 -t | | |
| **Stab-4** | **Asus AC88** | **34:97:F6:B6:D3:6B** | **Wi-Fi Primary 5G** | **Stab\_Test5G\_2** | **12345678** |
| Task1 | Run Iperf3 Server | | Command: Iperf3.exe –s –i 1 –p 7777  Command: Iperf3.exe –s –i 1 –p 17777 | | |
| Task2 | Play YouTube on Chrome browser | | EBC 東森新聞51頻道直播 | | |
| Tesk3 | Run ping | | Ping 192.168.0.1 -t | | |
| **Stab-5** | **Asus AC88** | **34:97:F6:B6:D3:64** | **Wi-Fi Primary 2.4G** | **Stab\_Test24G\_2** | **12345678** |
| Task1 | Run Iperf3 Server | | Command: Iperf3.exe –s –i 1 –p 8888  Command: Iperf3.exe –s –i 1 –p 18888 | | |
| Task2 | Play YouTube on Chrome browser | | EBC 東森新聞51頻道直播 | | |
| Tesk3 | Run ping | | Ping 192.168.0.1 -t | | |
| **Stab-6** | **IPHONE 8 PLUS** | **E4:2B:34:44:3A:7E** | **Wi-Fi Primary 5G** | **Stab\_Test5G\_2** | **12345678** |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-7** | **iPhone 8** | **3C:2E:FF:23:9F:4D** | **Wi-Fi Primary 2.4G** | **Stab\_Test24G\_2** | **12345678** |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-8** | **Apple-TV** | **40:CB:C0:D4:1A:D3** | **Wi-Fi Primary 5G** | **Stab\_Test5G\_2** | **12345678** |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-9** | **Chromecast** | **A4:77:33:18:E3:64** | **Wi-Fi Primary 2.4G** | **Stab\_Test24G\_2** | **12345678** |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-10** | **IPHONE X** | **3C:2E:FF23:9F:4D** | **Wi-Fi Primary 5G** | **Stab\_Guest\_5G\_2** |  |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-11** | **Galaxy-S8** | **04:D6:AA:83:CD:B7** | **Wi-Fi Primary 2.4G** | **Stab\_Guest\_24G\_2** |  |
| Task1 | Play YouTube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-12** | **IPHONE PRO 13INCH** | **B4:F6:1C:6F:29:12** | **Wi-Fi Hotspot 5G** | **Stab\_HOT\_5G\_2** | **cbn/cbn** |
| Task1 | Play youtube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-13** | **iPad Air 2** | **00:6D:52:F2:0C:1F** | **Wi-Fi HotSpot 2.4G** | **Stab\_HOT\_24G\_2** | **cbn/cbn** |
| Task1 | Play youtube on APP | | EBC 東森新聞51頻道直播 | | |
| **Stab-14** | **Acer travelmate4730** | **00:6D:52:F2:0C:1F** | **Wi-Fi Primary 2.4G**  **Wi-Fi Primary 5G** |  |  |
| Task1 | Run toggle script /home/cbn/toogle.sh | | Ping 8.8.8.8 | | |
| **Stab-15** | **SAMSUNG NOTE3** | **48:5A3F:2B:ED:71** | **Wi-Fi Primary 2.4G** | **Stab\_Test24G\_2** | **12345678** |
| Task1 | CHROMECAST SOURCE | | EBC 東森新聞51頻道直播 | | |
| **Stab-16** | **Xaimi A1** | **f4:f5:db:da:ac:fd** | **Wi-Fi Primary 2.4G**  **Wi-Fi Primary 5G** |  |  |
| Task1 | Play youtube on APP | | EBC 東森新聞51頻道直播 | | |

**Iperf3 auto program on Windows**







**GRE script on Ubuntu**

#!/bin/bash  
echo "1. Add gre ipv6 tunnel."  
echo "2. Clean gre ipv6 tunnel."  
read userinput  
  
cable\_modem\_A\_ipv6\_ip="2002:DB50:FA13:43:4C0E:2872:2D75:3EB9"  
cable\_modem\_B\_ipv6\_ip="2002:DB50:FA13:43:7008:E23D:3956:C653"  
  
if [ "1" == "$userinput" ] ;then  
  
sudo ip link set upc down  
sudo ip link del upc.  
sudo ip link set upc69 down  
sudo ip link del upc69  
sleep 3  
sudo ip link add upc type ip6gre remote $cable\_modem\_A\_ipv6\_ip local 2002:db50:fa13:1::127  
sudo ip link del upc   
sudo ip link add upc type ip6gretap remote $cable\_modem\_A\_ipv6\_ip local 2002:db50:fa13:1::127  
sudo ip link set upc up   
sudo ifconfig upc 10.118.10.100  
sleep 2  
sudo ip link add upc69 type ip6gre remote $cable\_modem\_B\_ipv6\_ip local 2002:db50:fa13:1::127  
sudo ip link del upc69   
sudo ip link add upc69 type ip6gretap remote $cable\_modem\_B\_ipv6\_ip local 2002:db50:fa13:1::127  
sudo ip link set upc69 up   
sudo ifconfig upc69 10.118.110.100  
sleep 2  
sudo route add -net 10.118.10.0 netmask 255.255.255.0 dev upc  
sudo route add -net 10.118.110.0 netmask 255.255.255.0 dev upc69  
sleep 2  
sudo /etc/init.d/isc-dhcp-server restart  
sleep 2  
service freeradius start  
sleep 2  
sudo iptables -P FORWARD ACCEPT  
sudo iptables -t nat -A POSTROUTING -o enp4s5 -j MASQUERADE  
echo "Gre is Ready!!!"  
  
elif [ "2" == "$userinput" ] ;then  
sudo ip link set upc down  
sudo ip link del upc.  
sudo ip link set upc69 down  
sudo ip link del upc69  
fi

**Toggle PC script on Windows**



@echo on

:start

echo Starting Connectivity Test

echo Wireless Disconnect

netsh wlan disconnect

timeout /t 10

echo wireless connect

netsh wlan connect name=Stab\_Test5G\_1

timeout /t 10

ping -n 10 8.8.8.8

pinging to gateway 8.8.8.8

echo Test Connectivity Ends

timeout /t 10

echo Wireless Disconnect

netsh wlan disconnect

timeout /t 10

echo wireless connect

netsh wlan connect name=Stab\_Test5G\_2

timeout /t 10

ping -n 10 8.8.8.8

pinging to gateway 8.8.8.8

echo Test Connectivity Ends

timeout /t 10

echo Starting Connectivity Test

echo Wireless Disconnect

netsh wlan disconnect

timeout /t 10

echo wireless connect

netsh wlan connect name=Stab\_Test24G\_1

timeout /t 10

ping -n 10 8.8.8.8

pinging to gateway 8.8.8.8

echo Test Connectivity Ends

timeout /t 10

echo Wireless Disconnect

netsh wlan disconnect

timeout /t 10

echo wireless connect

netsh wlan connect name=Stab\_Test24G\_2

timeout /t 10

ping -n 10 8.8.8.8

pinging to gateway 8.8.8.8

echo Test Connectivity Ends

timeout /t 10

goto start

**Test case:**

|  |  |
| --- | --- |
| 1 | WiFi Stability - Guest Client should not lose IPv4 address on 5G during WiFi stablity test |
| 2 | WiFi Stability - Snmpwalk is still workable after at least 12 hours or longer. |
| 3 | WiFi Stability - Any Macbook should not lose IPv6 address on 2G after at least 12 hours or longer |
| 4 | WiFi Stability - if any client disconnect during WiFi stablity test, Try to manually re-connect WiFi |
| 5 | WiFi Stability - WiFi apply setting on GUI after stability test for at least 12 hours |
| 6 | WiFi Stability - Guest Client should not lose IPv4 address on 2G during WiFi stablity test |
| 7 | WiFi Stability - After 12 Hrs, Macbook and AC88 re-run iperf3 by manually on 2G |
| 8 | WiFi Stability - WiFi stablity test to ensure ATOM no crash after at least 12 hours or longer. |
| 9 | WiFi Stability - Any Andorid phone should not lose IPv4 address on 5G after at least 12 hours or longer |
| 10 | WiFi Stability - Any Iphone should not lose IPv4 address on 5G after at least 12 hours or longer |
| 11 | WiFi Stability - WebGUI is still workable after at least 12 hours or longer. |
| 12 | WiFi Stability - No any client Disconnection after at least 12 hours or longer |
| 13 | WiFi Stability - if Hotspot lose IP during WiFi stablity test, Try to manually re-connect public SSID |
| 14 | WiFi Stability - Any ipad should not lose IPv4 address on 2G after at least 12 hours or longer |
| 15 | WiFi Stability - Ping loss should not more than 10% on 5G(Macbook) after at least 12 hours or longer |
| 16 | WiFi Stability - Hotspot should not lose IPv4 address on 5G during WiFi stablity test |
| 17 | WiFi Stability - if any client stop playing youtube during WiFi stablity test, Try to re-play youtube |
| 18 | WiFi Stability - WiFi apply setting with mib browser after stability test for at least 12 hours |
| 19 | WiFi Stability - Additional client can connect 2G public SSID after at least 12 hours or longer. |
| 20 | WiFi Stability - ACS is still online after at least 12 hours or longer. |
| 21 | WiFi Stability - Chromecast is still playing after at least 12 hours or longer. |
| 22 | WiFi Stability - Additional client can connect 2G primary SSID after at least 12 hours or longer. |
| 23 | WiFi Stability - WiFi stablity test to ensure ARM no crash after at least 12 hours or longer. |
| 24 | WiFi Stability - Any Macbook should not lose IPv4 address on 5G after at least 12 hours or longer |
| 25 | WiFi Stability - Ping loss should not more than 10% on 2G(AC88) after at least 12 hours or longer |
| 26 | WiFi Stability - Any Macbook should not lose IPv6 address on 5G after at least 12 hours or longer |
| 27 | WiFi Stability - Plume is still workable after at least 12 hours or longer. |
| 28 | WiFi Stability - Additional client can connect 5G Guest SSID after at least 12 hours or longer. |
| 29 | WiFi Stability - Additional client can connect 5G primary SSID after at least 12 hours or longer. |
| 30 | WiFi Stability - Any Iphone should not lose IPv4 address on 2G after at least 12 hours or longer |
| 31 | WiFi Stability - Hotspot should not lose IPv4 address on 2G during WiFi stablity test |
| 32 | WiFi Stability - Any Macbook should not lose IPv4 address on 2G after at least 12 hours or longer |
| 33 | WiFi Stability - Additional client can connect 2G Guest SSID after at least 12 hours or longer. |
| 34 | WiFi Stability - if any client lose IP during WiFi stablity test, Try to manually re-connect WiFi |
| 35 | WiFi Stability - Any AC88 should not lose IPv4 address on 2G during WiFi stablity test |
| 36 | WiFi Stability - Ping loss should not more than 10% on 5G(AC88) after at least 12 hours or longer |
| 37 | WiFi Stability - Iperf3 run for 12 hours successfully on 2G(Macbook) after at least 12 hours or longer |
| 38 | WiFi Stability - Additional client can connect 5G public SSID after at least 12 hours or longer. |
| 39 | WiFi Stability - AppleTV is still playing after at least 12 hours or longer. |
| 40 | WiFi Stability - No other error after at least 12 hours or longer. |
| 41 | WiFi Stability - Iperf3 run for 12 hours successfully on 5G(Macbook) after at least 12 hours or longer |
| 42 | WiFi Stability - Any AC88 should not lose IPv4 address on 5G during WiFi stablity test |
| 43 | WiFi Stability - After 12 Hrs, Macbook and AC88 re-run iperf by manually on 5G |
| 44 | WiFi Stability - Any Andorid phone should not lose IPv4 address on 2G after at least 12 hours or longer |
| 45 | WiFi Stability - Ping loss should not more than 10% on 2G(Macbook) after at least 12 hours or longer |
| 46 | WiFi Stability - Any Ipad should not lose IPv4 address on 5G after at least 12 hours or longer |