

# TW-EAV510AC(b) Test Case:

## ➤ Server: TW-EAV510AC(b)

Local IP: 192.168.18.254, WAN IP: 111.251.220.210 (DDNS=xxxxxx.ddns.net)

## ➤ Client: TW-EAV510AC-LTE

Local IP: 192.168.81.254

### ■ Case 1: Remote Access:

1. TW-EAV510AC (b) server setting:

1.1. On VPN > OpenVPN Server, please set Port Number: 1194 on default, Tunnel Network: 6.6.6.0/255.255.255.0.

Server Account: test/test and Connection type: Remote Access. Others are as below.

The screenshot shows the 'OpenVPN Server Configuration' page. The 'Tunnel Network (Virtual interface)' section is highlighted with a red box, showing IP Address: 6.6.6.0 and Netmask: 255.255.255.0. The 'Local Access Range' section is also highlighted, showing IP Address: 192.168.18.0 and Netmask: 255.255.255.0. The 'Cryptographic Suite' section is highlighted, showing Cipher: Blowfish in CBC mode, HMAC: SHA1, Izo Compression: Adaptive, and Keepalive: Disable. The 'Server Account' section shows Name: test, Username: test, Connection Type: Remote Access, and Tunnel: Enable. Below the configuration is an 'OVPN Server Table' with two entries: 'test' (Remote Access) and 'abc' (LAN to LAN).

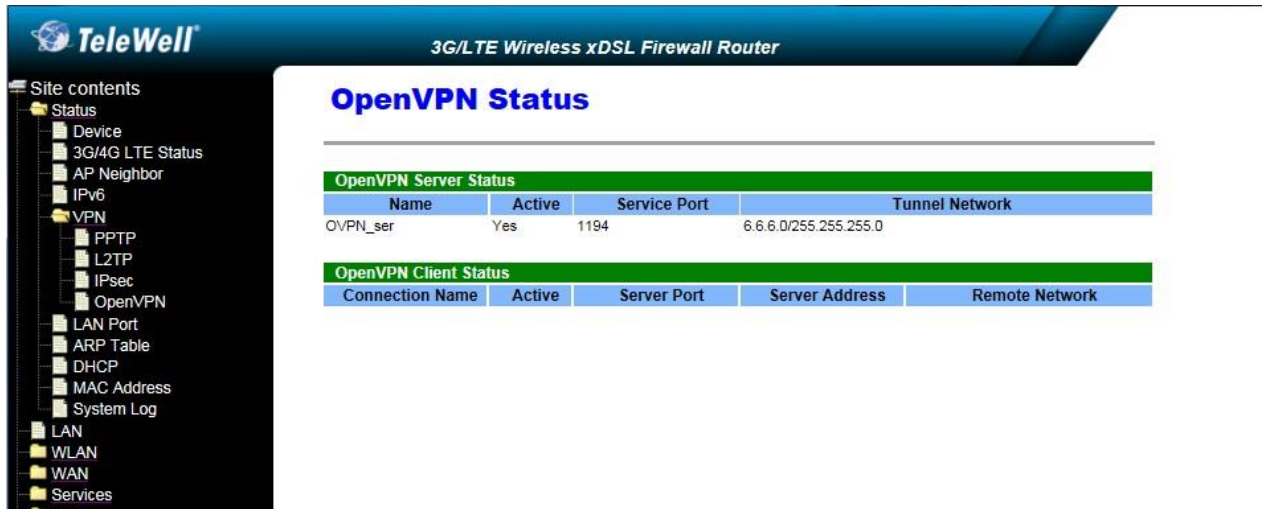
Edit	Name	Enable	Username	Connection Type	Peer Network IP	Peer Netmask	Select
<input type="radio"/>	test	Enable	test	Remote Access			<input type="checkbox"/>
<input type="radio"/>	abc	Enable	abc	LAN to LAN	192.168.81.0	255.255.255.0	<input type="checkbox"/>

1.2. Export TW-EAV510AC(b) CA file and share with client site.

The screenshot shows the 'OpenVPN CA' page. It displays a certificate and an 'Export client.ovpn file' button. The certificate text is as follows:

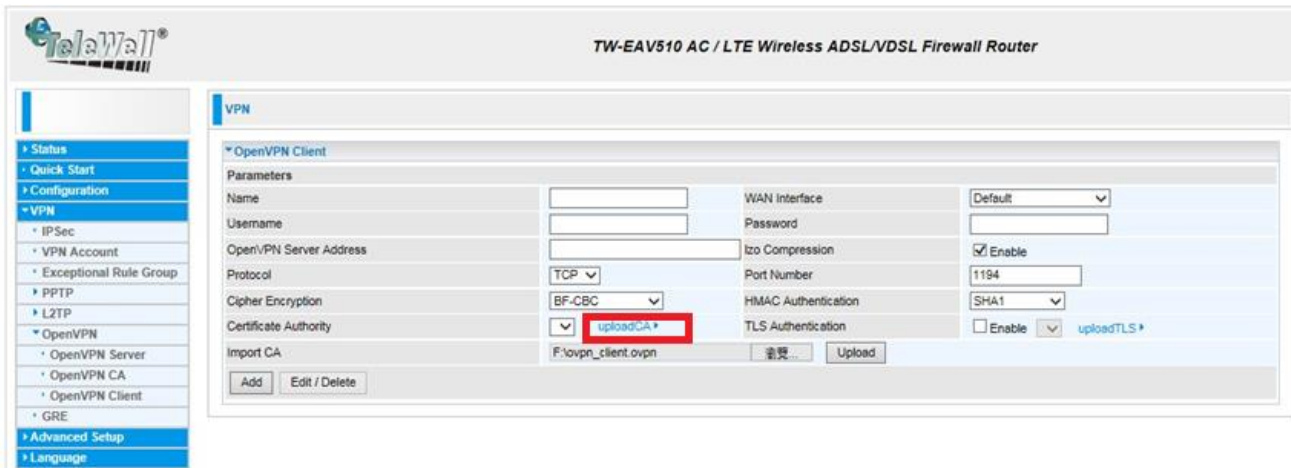
```
-----BEGIN CERTIFICATE-----
MIIDjTCCAvagAwIBAgIJAJoYFQFo2PbbMA0GCSqGSIb3DQEBBQUAMIGMMQswCQYD
VQQGEwJGSTEQMA4GA1UECBMHRmlubG9uZDERMA8GA1UEBxMI3GVsc21ua2kxETAP
BgnVbAoTCFRlbGVXZ2xwMREwDwYDVQLLevhUZWx1V2VubDEPMA8GA1UEAwdIUVGVs
ZVdlbG9wHsdB9kghk1G9w0CQWEHR1a21AdGVsZXAlbG9wZmktb3RlbnR1b3R1
MDc0MTQwMm9jgWODIzdDkzMTQz9jCBjDEMA8GA1UEBxMHRlbnR1b3R1b3R1b3R1
B0Zpbm9wZmktb3RlbnR1b3R1b3R1b3R1b3R1b3R1b3R1b3R1b3R1b3R1b3R1b3R1
MA8GA1UECmMIVGVsZVdlbG9wZmktb3RlbnR1b3R1b3R1b3R1b3R1b3R1b3R1b3R1
AQkBFhB0dWpQRHR1b3R1b3R1b3R1b3R1b3R1b3R1b3R1b3R1b3R1b3R1b3R1b3R1
gQCmwhUIeRcay4H0UgEPWjgWcWwmpo7gEZvkw900/1Kd00KymYV/TY26q6iNrFp
j3p05GwrQmKycru/3gAp51tfo3mdcr1QatIu6V1e1Q88s8P8TnEOVlMnsHvuHs6s
txi10NV5b+fmmL14j5e6E2MPKYRUUV2+Bsy599M0jC+wIDAQABo4R0MlHxMB0G
-----
```

1.3. Check Status on Status>VPN>OpenVPN.



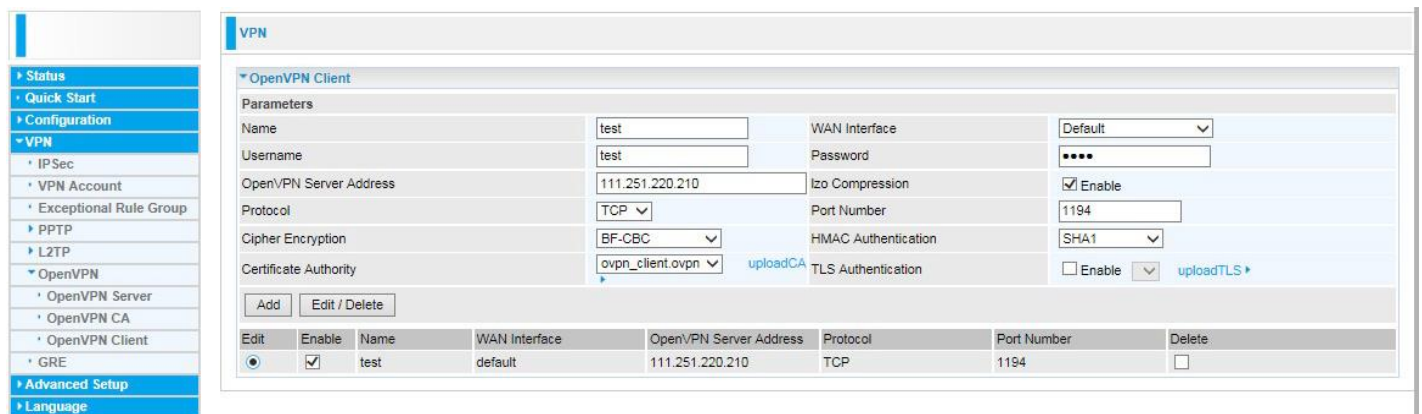
2. TW-EAV510AC-LTE client setting

2.1 Load the CA that get from Server site on VPN>OpenVPN>OpenVPN client



2.2 Set OpenVPN Client on VPN>OpenVPN>OpenVPN client.

Input username/password=test/test and Server IP as below.



2.3 Check Status on Status>VPN>OpenVPN.

## 2.4 Check Result.

Ping Server IP: 192.168.18.254

```
C:\Users\FAE>ping 192.168.18.254

Pinging 192.168.18.254 with 32 bytes of data:
Reply from 192.168.18.254: bytes=32 time<1ms TTL=64
Reply from 192.168.18.254: bytes=32 time<1ms TTL=64
Reply from 192.168.18.254: bytes=32 time=1ms TTL=64
Reply from 192.168.18.254: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.18.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Ping Remote PC IP: 192.168.18.1

```
C:\Users\FAE>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:
Reply from 192.168.18.1: bytes=32 time<1ms TTL=128
Reply from 192.168.18.1: bytes=32 time<1ms TTL=128
Reply from 192.168.18.1: bytes=32 time<1ms TTL=128
Reply from 192.168.18.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.18.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

### ■Case2: LAN to LAN

1.TW-EAV510AC (b) server setting:

1.1 On VPN>OpenVPN Server,please set Port Number=1194 on default.Tunnel Network: 6.6.6.0/255.255.255.0.

Server Account: abc/abc and Connection type: LAN to LAN. Others are same as below.

**TeleWell** 3G/LTE Wireless xDSL Firewall Router

**OpenVPN Server Configuration**

This page is used to configure the parameters for OpenVPN.

Name:  Active:  Yes  No Port Number:

**Tunnel Network (Virtual interface)**  
 IP Address:  Netmask:

**Local Access Range**  
 IP Address:  Netmask:   
 Interface:  Protocol:

**Cryptographic Suite**  
 Cipher:  HMAC:   
 Izo Compression:  Keepalive:  Interval:  seconds

**Server Account**

Name:  Tunnel:  Disable  Enable  
 Username:  Password:   
 Connection Type:  Remote Access  LAN to LAN  
 Peer Network IP:  Peer Netmask:

**OVPN Server Table**

Edit	Name	Enable	Username	Connection Type	Peer Network IP	Peer Netmask	Select
<input type="radio"/>	test	Enable	test	Remote Access			<input type="checkbox"/>
<input type="radio"/>	abc	Enable	abc	LAN to LAN	192.168.81.0	255.255.255.0	<input type="checkbox"/>

1.2. Export TW-EAV510AC(b) CA file and share with client site.

**TeleWell** 3G/LTE Wireless xDSL Firewall Router

**OpenVPN CA**

You can view OpenVPN trusted CA and export client.ovpn file here

Certificate

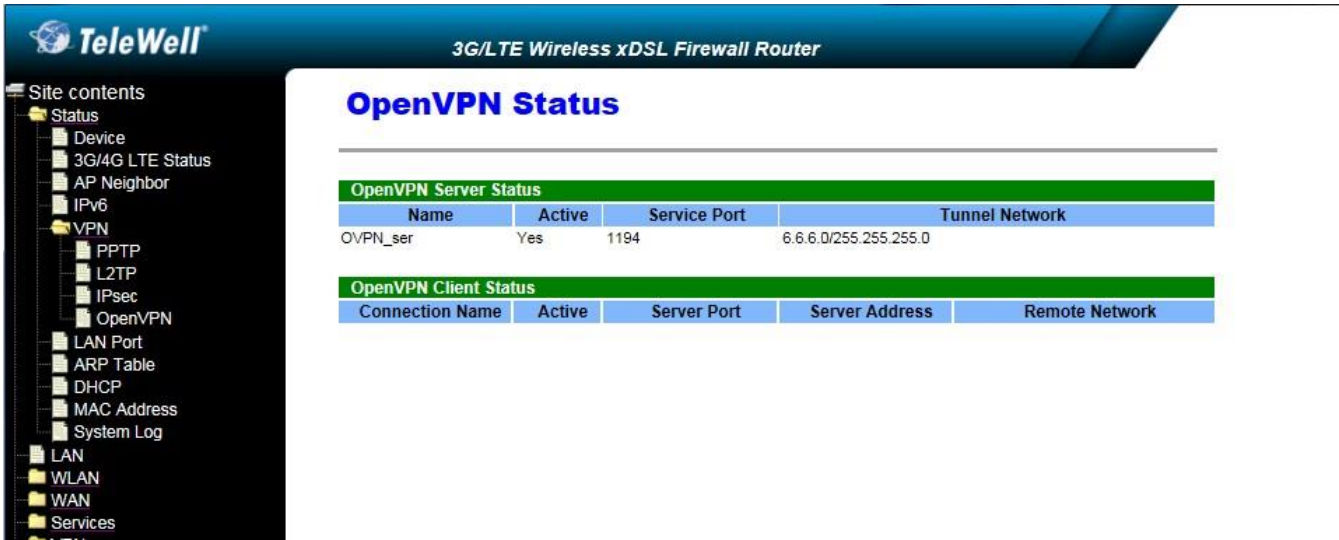
```

-----BEGIN CERTIFICATE-----
MIIDjTCCAvagAwIBAgIUAJ0YFQFo2FbbMA0GCSqGSIb3DQEBBQUAMIGMMQswCQYD
VQQGEwUGSTEQMA4GA1UECBMRmlubGZuZDERMA8GA1UEBmI19GV5e211ua2kxETAP
BgNVBAoTCFR1bGVXZWxwMREwDwYDVQQLEWhUZWx1V2VybDERMA8GA1UEAxdMIVGV5
ZVd1bGVxHsAdBgkqhkiG9w0BCQWEHR1e21AdGV5ZXdlbGVxZWxwMREwDwYDVQID
MDcsMTQeWheclRMjgwODIxMDcsMTQeWjCBjDELMARGA1UEBHMCRkklkxEDAOBgNVBAgT
B0Zpbm9kbm9xETAPBgNVBAcTCEh1bHNpbm9xMREwDwYDVQQKEWhUZWx1V2VybDER
MA8GA1UECxdMIVGV5ZVd1bGVxETAPBgNVBAMTCFR1bGVXZWxwMREwDwYDVQJJKoZIhvcN
AQkBFhB0dWtpQHR1bGVXZWxwLmZpMIGEMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKk
gQCmhULeRcy4H0UgEPWjgfcWEWnp07gE2vkW900/1Kd00KymYY/TY26q6iNxFp
jP05GvrQxnKycru/3gAp51tfo3mder1QatIu6V1e1QB8e8P8ThEOViMhsHvuHs6s
txii0NVSh+fmwL14jfs6E2MPKYHUFV2+Bszxy598MMjC+wIDAQABo4R0MIHxMB0G
-----END CERTIFICATE-----

```

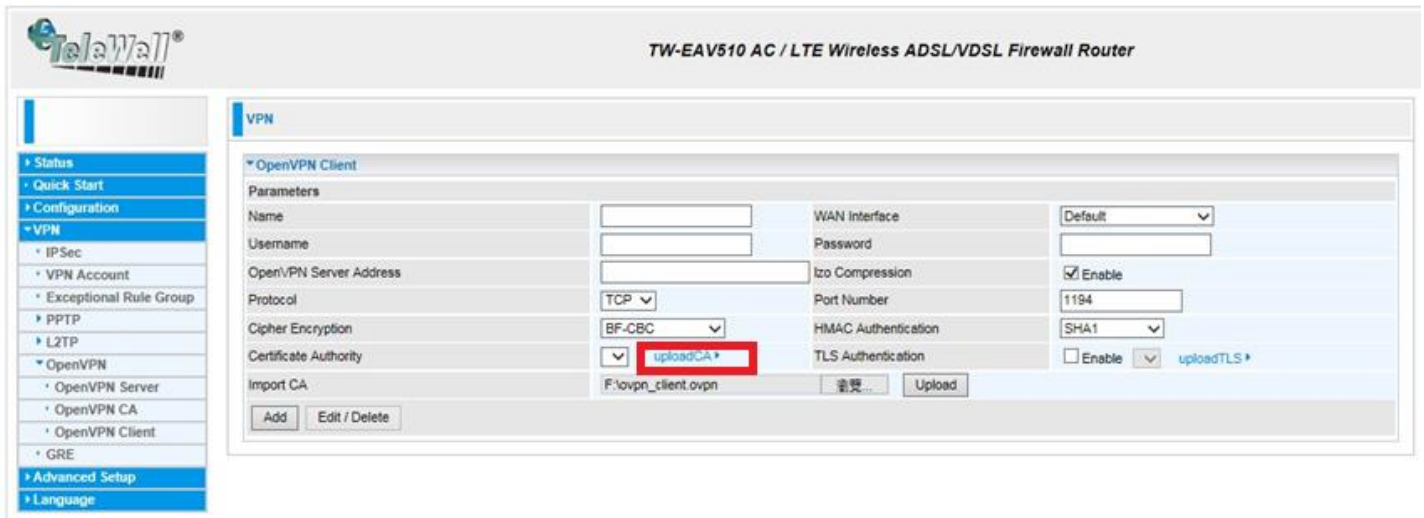
1.3. Check Status on Status>VPN>OpenVPN.





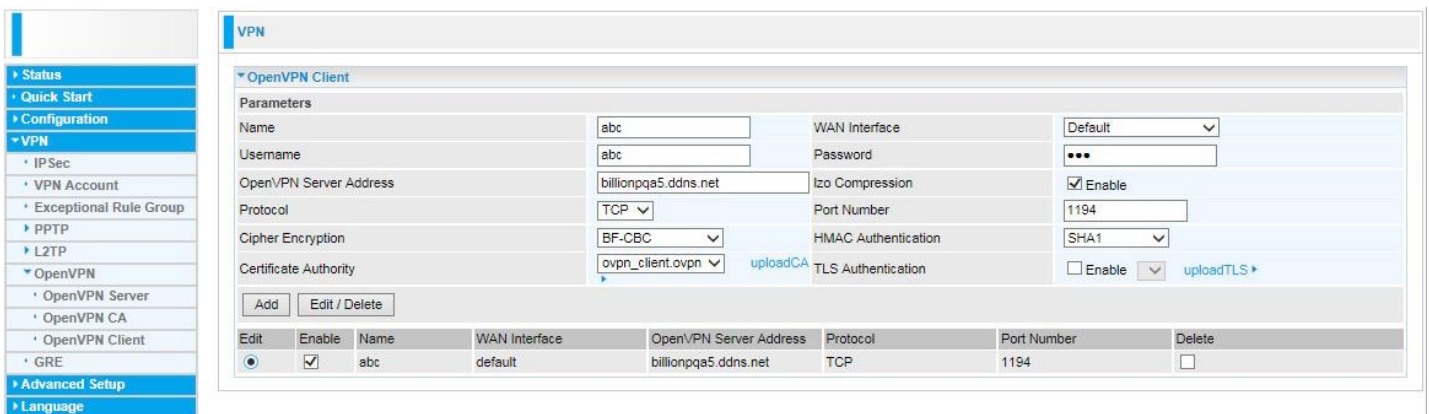
## 2. TW-EAV510AC-LTE client setting.

2.1 Load the CA that get from Server site on VPN>OpenVPN>OpenVPN client.



2.2 Set OpenVPN Client on VPN>OpenVPN>OpenVPN client.

Input username/password=abc/abc and Server DDNS=billionpqa5.ddns.net as below.



2.3 Check Status

- ▼ Status
- Summary
- WAN
- ▶ Statistics
- ▶ Bandwidth Usage
- 3G/4G/LTE Status
- Route
- ARP
- DHCP
- ▼ VPN
- IP Sec
- PPTP
- L2TP
- OpenVPN
- GRE
- ▶ Log
- Load Balance Status

**Status**

▼ OpenVPN Status

OpenVPN Server ▶

Name ▶	Enable	Status	Connection Type	Peer Network IP	Server IP	Connect By	Action
OpenVPN Client ▶							
Name	Enable	Status	Peer Network IP	Client IP	Action		
abc	✓	Connected	192.168.18.0 (billionpqa5.ddns.net)	6.6.6.2	Disconnect		

#### 2.4 Check Result.

Ping Server IP: 192.168.18.254

```
C:\Users\FAE>ping 192.168.18.254

Pinging 192.168.18.254 with 32 bytes of data:
Reply from 192.168.18.254: bytes=32 time<1ms TTL=64
Reply from 192.168.18.254: bytes=32 time<1ms TTL=64
Reply from 192.168.18.254: bytes=32 time=1ms TTL=64
Reply from 192.168.18.254: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.18.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Ping Remote PC IP: 192.168.18.1

```
C:\Users\FAE>ping 192.168.18.1

Pinging 192.168.18.1 with 32 bytes of data:
Reply from 192.168.18.1: bytes=32 time<1ms TTL=128
Reply from 192.168.18.1: bytes=32 time<1ms TTL=128
Reply from 192.168.18.1: bytes=32 time<1ms TTL=128
Reply from 192.168.18.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.18.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```