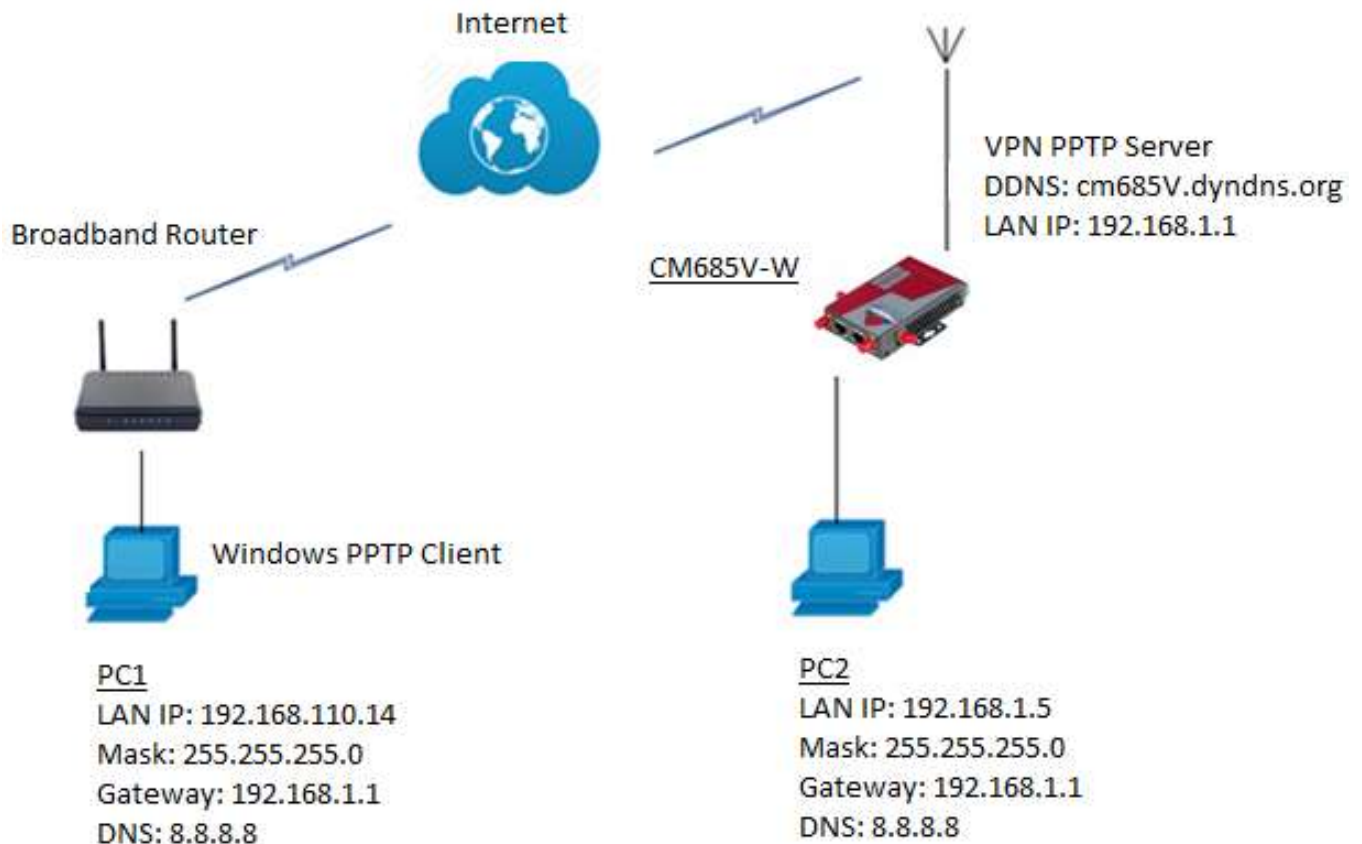


## How to configure VPN PPTP on the Comset CM685V, CM820V, CM685VX and CM950W

### Network Topology:



To configure VPN PPTP server on the CM685V router, please configure the router with the correct APN that will provide you with a Public WAN IP address, such as **telstra.extranet** for a Telstra Data SIM. You need to ask your carrier to activate your SIM card with a Public WAN IP.

1. Configure APN settings for a Public WAN IP.  
For Telstra Data SIM, go to Network-> Mobile -> APN -> telstra.extranet. See below:

The screenshot shows the 'Mobile Configuration' page for 'SIM 1'. The left sidebar contains a menu with the following items: Status, System, Services, Network (highlighted in red), Operation Mode, Mobile (highlighted in red), LAN, Wired WAN, WAN IPv6, Interfaces, Wi-Fi, Firewall, Static Routes, and Switch. The main configuration area has two tabs: 'General' and 'Data Limitation'. Under the 'General' tab, the 'Enable' checkbox is checked and highlighted in red. The 'Mobile connection' dropdown is set to 'DHCP mode'. The 'PIN code' field is empty. The 'Dialing number' field contains '\*99#'. The 'APN' field contains 'telstra.extranet' and is highlighted in red. The 'Authentication method' dropdown is set to 'None'. At the bottom, there is a 'Dual APN support' checkbox which is unchecked.

2. Go to the Status Page to check the WAN IP address. The WAN IP address here is 100.83.26.194. Use this WAN IP address on the VPN client server address.

Mobile 1	
Cellular Status	Up
IP Address	100.83.26.194 255.255.255.252
DNS 1	112.198.126.124
DNS 2	112.198.126.116

3. Go to Services -> VPN -> PPTP and click on the Edit Button. See screenshot below:

The screenshot shows the PPTP configuration interface. On the left, a sidebar contains 'Services' and 'VPN' (both highlighted with red boxes). The main content area is titled 'Point-to-Point Tunneling Protocol' and 'PPTP Configuration'. It includes a table with the following data:

Name	Type	Enable
	Server	No

An 'Edit' button is highlighted with a red box next to the 'No' in the 'Enable' column. Below the table, there are input fields for 'New instance name' and a dropdown for 'Role' set to 'Client', along with an 'Add New' button.

4. Enable PPTP and use a different local subnet for PPTP connection. If the router Lan IP address is the default 192.168.1.1, configure the local IP on PPTP as 192.168.0.1 as shown below. Add username and password.

### PPTP Server Instance:

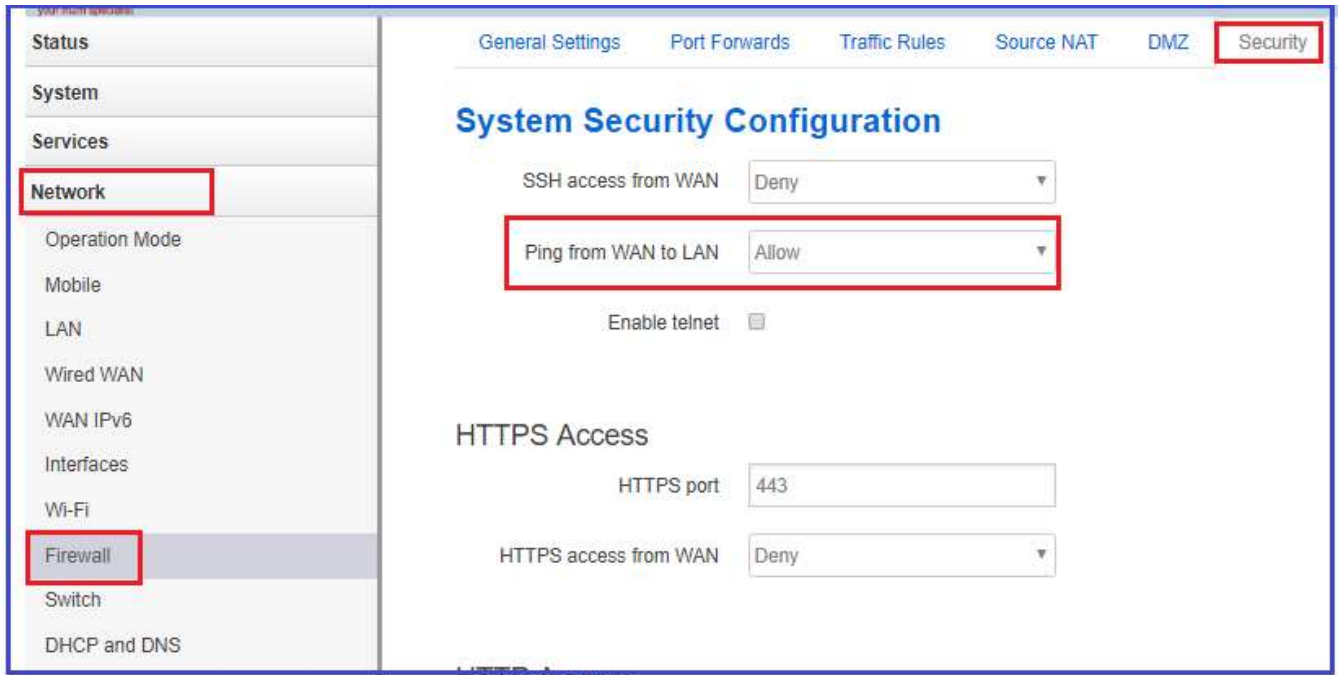
#### Main Settings

The 'Main Settings' section shows the following configuration:

- Enable:**  (highlighted with a red box)
- PPTP Local IP:** 192.168.0.1
- PPTP remote IP start:** 192.168.0.20
- PPTP remote IP end:** 192.168.0.30
- ARP Proxy:**
- MPPE Encryption:**
- IPCP-accept-remote:**
- Debug:**

Below the settings, there are 'Username' and 'Password' fields. The 'Username' field contains 'youruser' and the 'Password' field contains a masked password (highlighted with a red box).

5. Allow "Ping from WAN to LAN" on the Firewall security page.  
Go to Network -> Firewall -> Security -> set Allow to "Ping from WAN to LAN".



6. On the Traffic Rules page, enable "Allow-ALL-LAN-Ports".  
Go to Network -> Firewall -> Traffic Rules.



Name	Match	Action	Enable	Sort
DTU server	Any TCP, UDP From any host in wan To any router IP at port 5000 on this device	Accept input	<input type="checkbox"/>	↑ ↓
Allow-All-LAN-Ports	Any traffic From any host in wan To any host, ports 1-65535 in lan	Accept forward	<input checked="" type="checkbox"/>	↑ ↓
Allow-DHCP-Renew	IPv4-UDP From any host in wan To any router IP at port 68 on this device	Accept input	<input checked="" type="checkbox"/>	↑ ↓

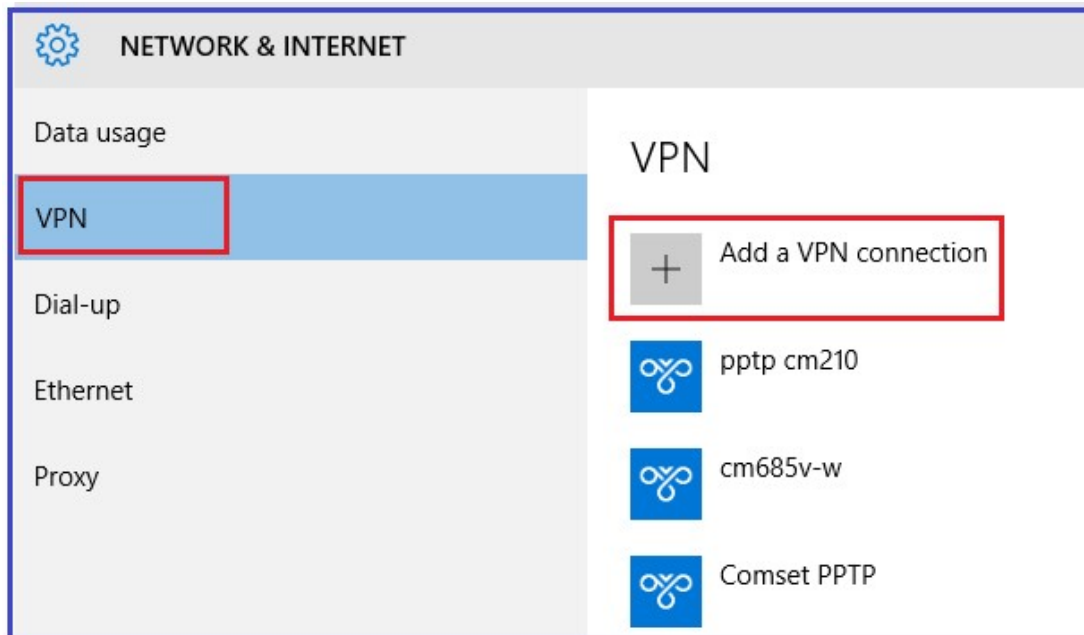
7. Configure DDNS settings on the router.  
Go to Services -> DDNS -> click Edit on IPv4.



The screenshot shows the router's configuration interface. On the left, a sidebar menu has 'Services' and 'DDNS' highlighted with red boxes. The main area is titled 'Details for: example\_ipv4' and has tabs for 'Basic Settings', 'Advanced Settings', 'Timer Settings', and 'Log File Viewer'. The 'Advanced Settings' tab is active, and a red box highlights the DDNS configuration fields: 'Enabled' (checked), 'IP address version' (IPv4-Address selected), 'DDNS Service provider [IPv4]' (dyndns.org), 'Hostname/Domain' (cm685v.dyndns.org), 'Username' (techsupport), 'Password' (masked), and 'Use HTTP Secure' (unchecked).

**On your Windows PC:**

1. Go to Network and Internet Settings -> VPN -> Add a VPN connection.



The screenshot shows the Windows 'NETWORK & INTERNET' settings page. The left sidebar has 'VPN' highlighted with a red box. The main content area is titled 'VPN' and features a red box around the '+ Add a VPN connection' button. Below this, three VPN connections are listed: 'pptp cm210', 'cm685v-w', and 'Comset PPTP'.

2. Set VPN Settings as below and click on the **Save** button.



VPN provider  
Windows (built-in)

Connection name  
PPTP

Server name or address  
cm685v.dyndns.org

VPN type  
Point to Point Tunneling Protocol (PPTP)

Type of sign-in info  
User name and password

User name (optional)  
test

3. Click on **PPTP** to connect to the VPN PPTP server with username and password.



PPTP

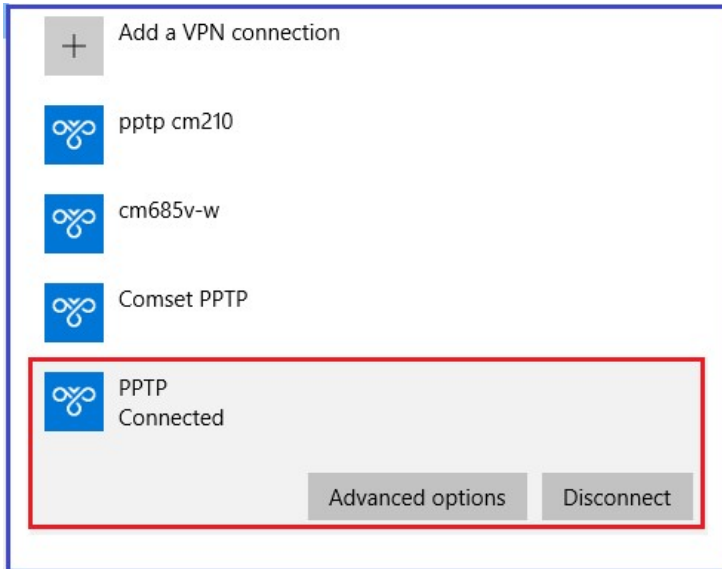
Connect Advanced options Remove



test

Domain:

4. Check VPN PPTP client connection.



5. Ping PC2 (192.168.1.5) behind the PPTP server from PC1

```
C:\Users\Ben>ping 192.168.1.5

Pinging 192.168.1.5 with 32 bytes of data:
Reply from 192.168.1.5: bytes=32 time=275ms TTL=127
Reply from 192.168.1.5: bytes=32 time=277ms TTL=127
Reply from 192.168.1.5: bytes=32 time=289ms TTL=127
Reply from 192.168.1.5: bytes=32 time=342ms TTL=127

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
    Approximate round trip times in milli-seconds:
        Minimum = 275ms, Maximum = 342ms, Average = 295ms
```

6. Ping CM685V LAN IP (192.168.1.1) from PC1.

```
C:\Users\Ben>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=290ms TTL=64
Reply from 192.168.1.1: bytes=32 time=283ms TTL=64
Reply from 192.168.1.1: bytes=32 time=276ms TTL=64
Reply from 192.168.1.1: bytes=32 time=448ms TTL=64

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 276ms, Maximum = 448ms, Average = 324ms
```