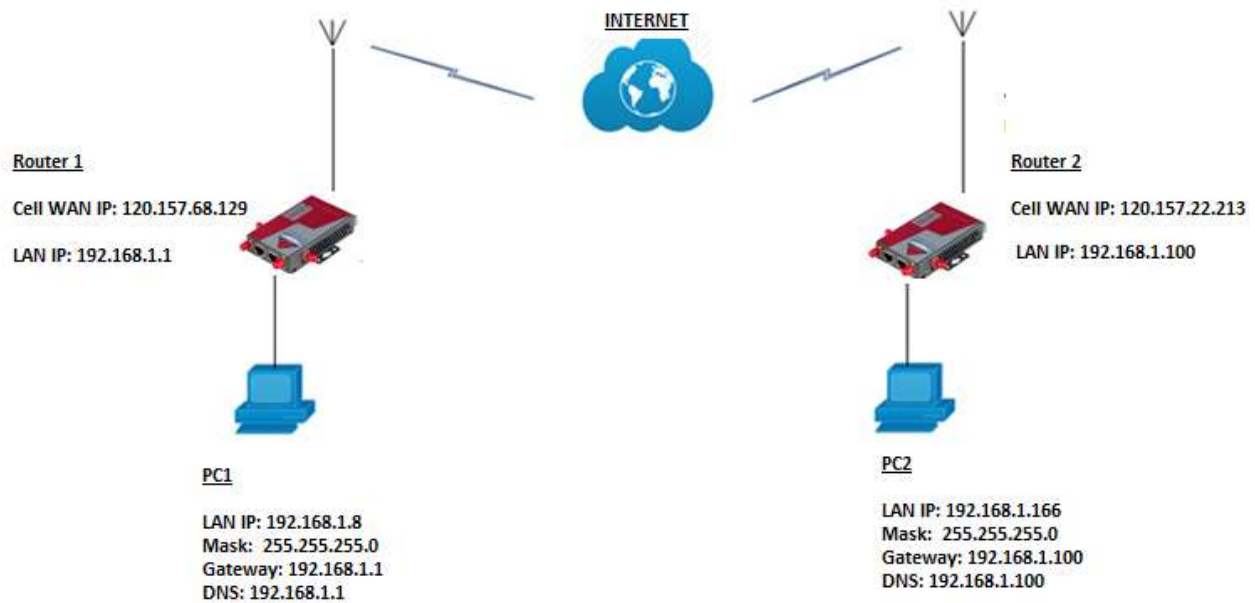


How to configure VPN EoIP on the Comset CM685VX

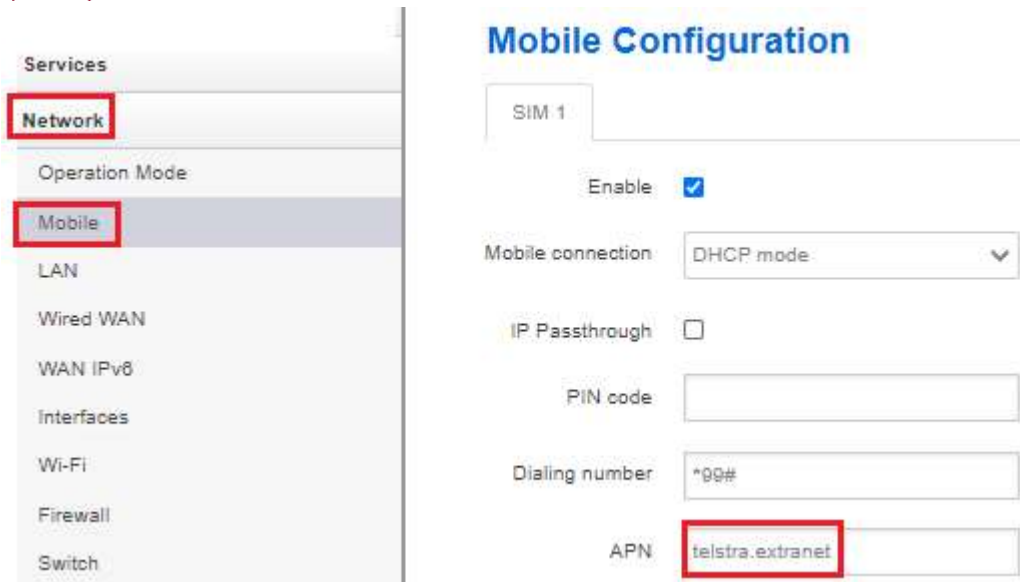
Network Topology:



To configure VPN EoIP on the Router 1, 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 has 'Network' and 'Mobile' highlighted. The main content area shows the following settings:

- SIM 1
- Enable:
- Mobile connection: DHCP mode
- IP Passthrough:
- PIN code: [Empty field]
- Dialing number: *99#
- APN: telstra.extranet

2. Go to the Status Page to check the WAN IP address. The WAN IP address here is 120.157.68.129.

Mobile 1

Cellular Status	Up
IP Address	120.157.68.129/255.255.255.252
DNS 1	10.4.130.164
DNS 2	10.4.149.70
Cell Modem	QUECTEL_RM500Q (2C7C_0800)
IMEI/ESN	863305040265554
Sim Status	SIM Ready

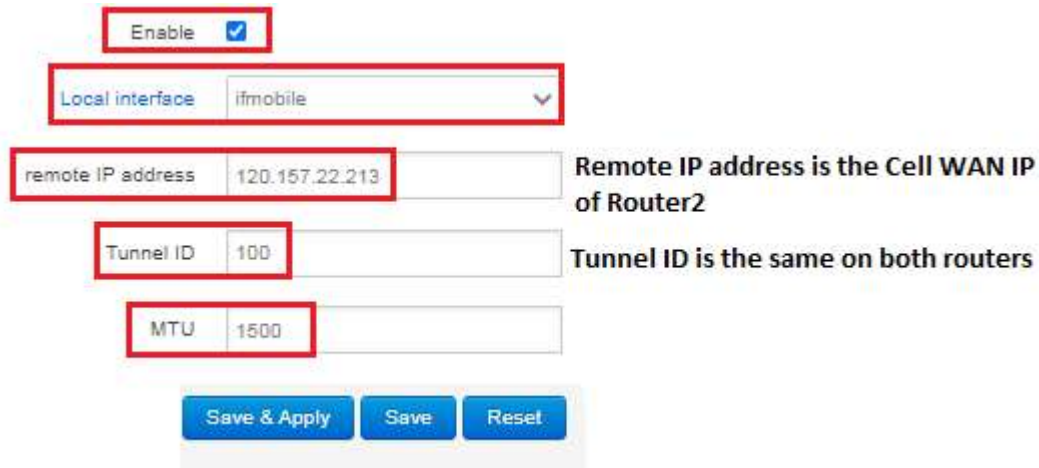
3. Go to Services -> VPN -> EoIP -> Add EoIP and click on Edit button.



The screenshot shows the 'EoIP Tunnel Configuration' page. The left sidebar has 'Services' and 'VPN' highlighted. The main content area shows the following configuration:

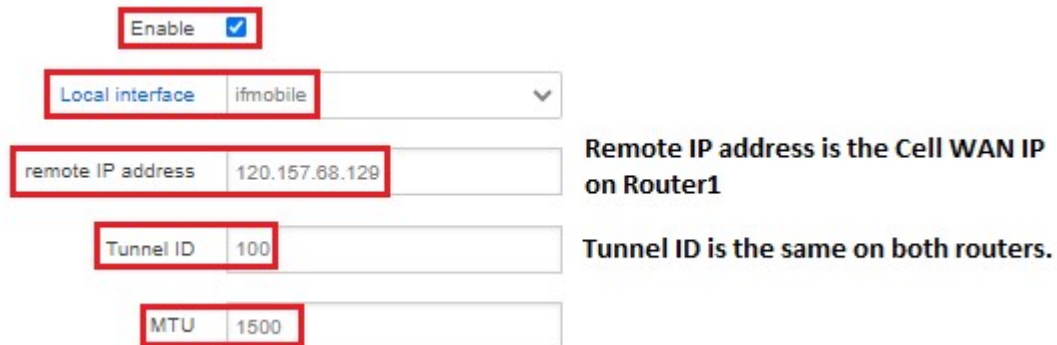
- Tabs: IPSec, PPTP, L2TP, OpenVPN, GRE Tunnel, EoIP
- Instance name: EoIP
- Enable:
- Remote IP: [Empty field]
- Local IP: [Empty field]
- Buttons: Edit, Delete
- New instance name: [Empty field] Add

4. Enable EoIP, select 'ifmobile', set remote IP address , Tunnel ID and MTU and then click on 'Save & Apply'. See screenshot below.



The screenshot shows the configuration interface for EoIP on Router 2. The 'Enable' checkbox is checked. The 'Local interface' dropdown is set to 'ifmobile'. The 'remote IP address' field contains '120.157.22.213'. The 'Tunnel ID' field contains '100'. The 'MTU' field contains '1500'. At the bottom, there are three buttons: 'Save & Apply', 'Save', and 'Reset'. To the right of the form, there are two explanatory notes: 'Remote IP address is the Cell WAN IP of Router2' and 'Tunnel ID is the same on both routers'.

5. For Router 2, repeat steps 1-3.
6. Enable EoIP, select 'ifmobile', set remote IP address , Tunnel ID and MTU and then click on 'Save & Apply'. See screenshot below.



The screenshot shows the configuration interface for EoIP on Router 1. The 'Enable' checkbox is checked. The 'Local interface' dropdown is set to 'ifmobile'. The 'remote IP address' field contains '120.157.68.129'. The 'Tunnel ID' field contains '100'. The 'MTU' field contains '1500'. To the right of the form, there are two explanatory notes: 'Remote IP address is the Cell WAN IP on Router1' and 'Tunnel ID is the same on both routers.'

Testing VPN EoIP

1. Ping from PC1 (192.168.1.8) to PC2(192.168.1.166).

```
C:\Users\A>ping 192.168.1.166

Pinging 192.168.1.166 with 32 bytes of data:
Reply from 192.168.1.166: bytes=32 time=120ms TTL=128
Reply from 192.168.1.166: bytes=32 time=83ms TTL=128
Reply from 192.168.1.166: bytes=32 time=198ms TTL=128
Reply from 192.168.1.166: bytes=32 time=83ms TTL=128

Ping statistics for 192.168.1.166:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 83ms, Maximum = 198ms, Average = 121ms
```

2. Ping from PC2(192.168.1.166) to PC1(192.168.1.8).

```
C:\Users\Tony>ping 192.168.1.8

Pinging 192.168.1.8 with 32 bytes of data:
Reply from 192.168.1.8: bytes=32 time=129ms TTL=128
Reply from 192.168.1.8: bytes=32 time=140ms TTL=128
Reply from 192.168.1.8: bytes=32 time=59ms TTL=128
Reply from 192.168.1.8: bytes=32 time=123ms TTL=128

Ping statistics for 192.168.1.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 59ms, Maximum = 140ms, Average = 112ms
```