Pepwave Max BR1 – Configuring IP Passthrough

This tip sheet is for users wanting to utilize a mobile broadband connection with their existing network (which might not support mobile broadband modems). Instructions will walk you through configuring the BR1 to allow the cellular WAN IP to pass through the Ethernet out to the existing network.

NOTE:
When IP Passthrough is enabled, after the cellular WAN connection is up, the router's DHCP server will offer the connection's IP address to 1 LAN client. All incoming or outgoing traffic will be routed without NAT.

Regardless of the WAN connection's state, the router always binds to the LAN IP address (default: 192.168.50.1). So when the cellular WAN is connected, the LAN client could access the router's web admin by manually configuring its IP address to the same subnet as the router's LAN IP address (e.g. 192.168.50.10).
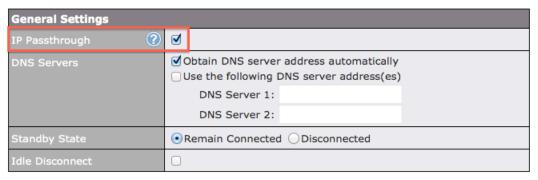
When this option is initially enabled, the LAN client may not be able to refresh its IP address to the cellular WAN IP address in a timely fashion. The LAN client may have to manually renew its IP address from the DHCP server. After this option is enabled, the DHCP lease time will be 2 minutes (i.e. the LAN client could refresh its IP address and access the network at most 1 minute after the cellular WAN connection goes up).

Step Procedures:

1. Connect your PC via Ethernet to the LAN port on the BR1.
2. Navigate to you the BR1's administration page at http://192.168.50.1
3. Log in with your username and password (default: admin, admin)
4. From the **'Dashboard'** page, click the **'Details'** button beside the **'Cellular'** WAN Connection

5. In the **'Connection Details'** window, find the IP address and make note of it – you'll want to verify the other network receives this same IP
6. Scroll down to the **'General Settings'** section
7. Place a checkmark in the box next to **'IP Passthrough'** to enable

General Settings	
IP Passthrough ⑦ ☑	
DNS Servers	☑ Obtain DNS server address automatically ☐ Use the following DNS server address(es) DNS Server 1: DNS Server 2:
Standby State	⦿ Remain Connected ◯ Disconnected
Idle Disconnect	☐

8. Scroll to the bottom of the window and click **'Save and Apply'**
9. Unplug the Ethernet cable from your computer and plug it into a WAN port on your existing network. *Be sure to verify the WAN IP address it receives matches what you gather from step 5. If it does not, try unplugging the cable and then plug it back in, OR simply power cycle the BR1.