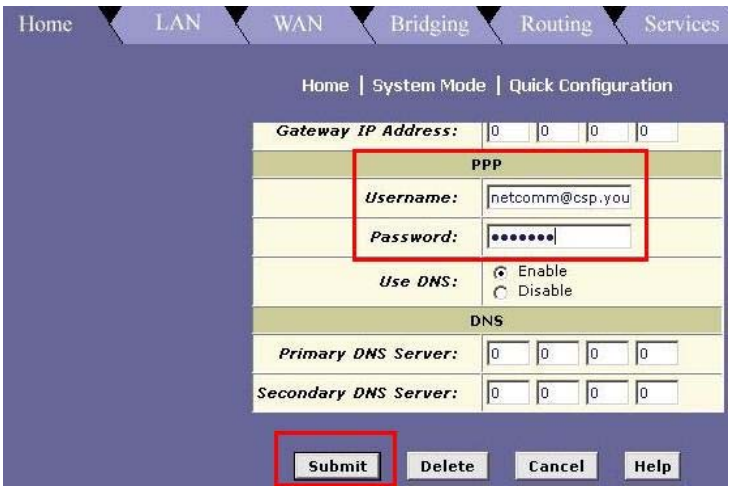
NetComm NB3 My ADSL Modem
PPPoE Half Bridge Procedure

Overview:
The outcome of this procedure will place the NB3 into half bridge mode where the NB3 will establish the PPPoE connection with your ISP (Internet Service Provider). The NB3 will then assign the allocated public IP address to a single connected DHCP client Ethernet interface.

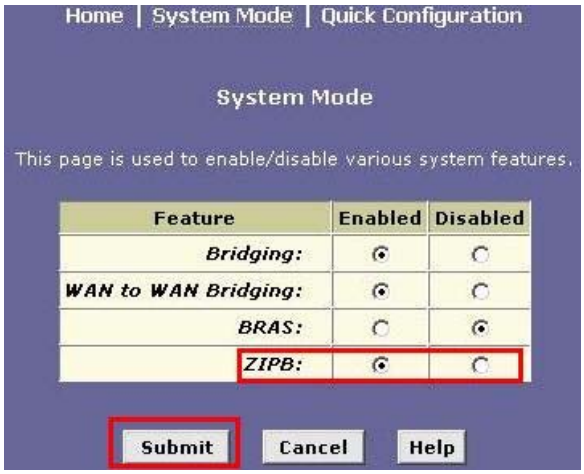
The method of connection is commonly used when connecting the NB3 to either of the following

- Another router that doesn't include embedded PPPoE authentication software.
- Linux firewall distributions such as Smoothwall, IPCop etc.
- You simply require NAT (Network Address Translation) to be completely disabled but prefer the NB3 to establish and maintain your DSL connection allowing a connected device / machine to perform routing and fire walling functions.

Instructions:
1. Reset the NB3 to factory defaults by holding the tiny button on the back for 10 seconds whilst the unit is powered.
2. Using a web browser log into NB3's web based configuration ie http://192.168.1.1 which is the default IP for accessing the NB3 via the ethernet connection.
3. When prompted enter username and password of 'root' and 'root' (defaults) respectively to log into the NB3 configuration.
4. From the ***Home*** tab select ***Quick Configuration*** scroll down to the ***PPP*** section then enter your username and password in the corresponding fields that you have been provided with to connect to your ISP. Keep in mind this is case sensitive then click the ***Submit*** button on this page.



5. Once complete select the ***System Mode*** option from the ***Home*** tab followed by enabling ***ZIPB*** (Zero Installation PPPoE Bridge) prior to selecting the ***Submit*** button.



6. From the ***Services*** tab then ***IP Filter*** and set the ***Security Level*** to ***None***

7. Move to the ***Admin*** tab then ***Commit and Reboot***, click ***Commit*** then the ***Reboot*** buttons and wait approximately 1 minute whilst the NB3 reboots.
8. To verify that the NB3 has established an Internet connection simply check that a green circle is present under the ***Home*** page ***Status*** column for your ***WAN Interface***.

WAN Interfaces							
Interface	Encapsulation	IP Address	Mask	Gateway	Lower Interface	VPI/VCI	Status
ppp-0	PPPoE	220.240.1.131	255.255.255.255	203.194.30.200	aal5-0	8/35	

LAN Interface							
Interface	Mac Address	IP Address	Mask	Lower Interface	Speed	Duplex	Status
eth-0	00:85:A0:01:01:00	192.168.1.1	255.255.255.0	-	100BT	Full	
usb-0	-	192.168.1.2	255.255.255.0	-	-	-	

9. Once your Internet connection is established the NB3 should now pass the assigned public IP address to a solely connected DHCP client Ethernet interface.

In some instances you may need to renew / repair the DHCP connection in order for the connected interface to pickup your public address.

Note: As NAT will be disabled in this mode it is recommended to enable another form of fire walling whether it be hardware or software based behind the NB3. This should help prevent any damage from external Internet attacks.