

# **Configuring a BEC 8920NE Broadband Multiple-Service Gateway**

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[Setting Up the PC](#) | [Logging into BEC](#) | [Configuring Wireless](#)

[Setup – Static IP](#) | [Bridging](#) | [Finished](#)

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**This 8920NE modem has a nice feature. It auto-senses the WAN interface type so there is no need to “EWAN” or change the Main Port to Ethernet. It does this on its own.**

If the modem has a phone cord plugged into the DSL port and it syncs up on a port that is provisioned for ADSL it automatically sets the WAN interface to atm0.1. If it syncs up on a port that's provisioned for VDSL it automatically sets the WAN interface to ptm0.1.

If an Ethernet cable is plugged into the EWAN port and establishes a link the WAN interface automatically changes to the eth4.1 interface.

## **Setting Up the PC**

Before you can get into your new BEC 8920NE Wireless modem, you will need to have the computer's Ethernet interface to be set up for DHCP, or you will have to set up a static IP address.

Use the following address information if setting up a static IP in the computer's Ethernet interface:

IP ADDRESS: **192.168.10.100**  
SUBNET MASK: **255.255.255.0**  
GATEWAY: **192.168.10.1**

PRIMARY DNS: **216.220.0.1**  
SECONDARY DNS: **216.220.30.1**

## Logging Into the BEC 8920NE

The screenshot shows the web interface of a BEC 8920NE Triple WAN ADSL2+ Firewall Router. The page is titled "Status" and displays various system information. An "Authentication Required" dialog box is overlaid on the page, prompting for a username and password. The dialog box text reads: "A username and password are being requested by http://162.244.232.5. The site says: 'BEC 8920NE'". The dialog box has fields for "User Name:" and "Password:" and buttons for "OK" and "Cancel".

Device Information	
Model Name	BEC 8920NE
Host Name	home.gateway
System Up-Time	0D 0H 16M 51S
Date/Time	Wed Apr 16 15:58:42 2014
Software Version	4.60b.rcd1.1
LAN IPv4 Address	192.168.10.1
LAN IPv6 Address	
MAC Address	
DSL PHY and Driver Version	
Wireless Driver Version	

WAN	
B0 Traffic Type	
B0 Line Rate - Upstream (Kbps)	3759
B0 Line Rate - Downstream (Kbps)	34499
B1 Traffic Type	Inactive
B1 Line Rate - Upstream (Kbps)	0
B1 Line Rate - Downstream (Kbps)	0
Default Gateway / IPv4 Address	ptm0.1 (DSL) / 162.244.232.5
Connection Time	00:16:52
Primary DNS Server	216.220.0.1
Secondary DNS Server	216.220.30.1
Default IPv6 Gateway / IPv6 Address	

In order to log in, open a web browser (Internet Explorer works best for this), and in the address bar type in the following IP address.

**192.168.10.1**

After you input the IP address, press the "GO" button or press "ENTER" on your keyboard to access the page. If everything goes as anticipated, you will see a login screen prompting for username and password (Above).

At this point in the process, input the username and the password as follows:

**USERNAME: admin**  
**PASSWORD: NEMONTadmin**

After inputting the username and password, simply click the "OK" button. You will be redirected to the default home page of the modem.

## Configuring Wireless

**Configuration**

**Basic**

Parameters

Wireless  Enable

Hide SSID  Enable

Clients Isolation  Enable

Disable WMM Advertise  Enable

Wireless Multicast Forwarding (WMF)  Enable

SSID

BSSID 00:04:ED:F5:62:8D

Country UNITED STATES

Max Clients  [1-16]

Wireless - Guest/Virtual Access Points

SSID	Hidden	Clients Isolation	Disable WMM Advertise	WMF	Hotspot	BSSID	Enable
wi0_Guest1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	N/A	<input type="checkbox"/>
wi0_Guest2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	N/A	<input type="checkbox"/>
wi0_Guest3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	N/A	<input type="checkbox"/>

After logging into the modem's home page, click on "**Configuration**" then "**Wireless**" on the left side of the page. Enter the "**SSID**" the customer would like to use. This is usually the customer's last name. Once entered, click the "**Apply**" button to save changes.

**Configuration**

**Security**

If Hide Access Point enabled or Mac filter list is empty with 'allow' chosen, WPA2 will be disabled.

WPS Setup

WPS  (Current: Disable)

Manual Setup AP

Select SSID

Network Authentication

WPA/WAPI passphrase  [Click here to display](#)

WPA Group Rekey Interval  [0-2147483647]

WPA/WAPI Encryption

To setup the wireless security click on the "**Security**" link on the left side of the page under "**Wireless**". The "**Select SSID**" should show the SSID you entered on previous page.

"**WPA/WAPI passphrase**" by default is the LAN MAC address (uppercase letters) which is listed on the underside of the modem on the MAC address label. However, the password can be changed to anything the customer would prefer to use. The only restriction is that the new key is at least eight or more characters in length. The current passphrase can be viewed by clicking on the "**Click here to display**" link to the right of the passphrase box.

After modifying the information above, click the "**Apply**" button to save these settings.

If the customer is DHCP you are done configuring the BEC 8920NE modem! The modem is now ready for DHCP authentication.

If the customer has a static IP address continue below...

### Setup – Static IP

**Configuration**

WAN Service

ATM Interface

Interface	Description	Type	VPI / VCI	Vlan8021p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mid	Remove	Edit
atm0.1	ADSLData	IPoE	0 / 35	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit

PTM Interface

Interface	Description	Type	Vlan8021p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mid	Remove	Edit
ptm0.1	VDSLData	IPoE	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit
ptm0.2	Video	Bridge	N/A	N/A	Disabled	Disabled	Disabled			<input type="checkbox"/>	Edit

ETH Interface

Interface	Description	Type	Vlan8021p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mid	Remove	Edit
eth4.1	FTTHData	IPoE	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit

Add Remove

To setup modem with a static IP, click the "Configuration", "WAN" and then "WAN Service" link at the left of the page.

If the service is ADSL click the "Edit" button for the atm0.1 interface.

If the service is VDSL then click the "Edit" button for the ptm0.1 interface. \*The ptm0.2 interface is for IPTV only and should be left alone.

If the service is FTTP then click the "Edit" button for the eth4.1 interface.

**BEC TECHNOLOGIES** Triple WAN ADSL2+ Firewall Router

**Menu**

- ▶ Status
- ▶ Quick Start
- ▶ Configuration
  - ▶ LAN
  - ▶ Wireless
  - ▶ WAN
  - ▶ System
  - ▶ IP Tunnel
  - ▶ Security
  - ▶ Quality of Service
  - ▶ NAT
- ▶ Advanced Setup

**Configuration**

▼ WAN Service

Parameters

Type	IP over Ethernet	802.1P Priority	-1 [tagged: 0-7; untagged: -1]	802.1Q VLAN ID	-1 [tagged: 0-4094; untagged: -1]
Description	VDSLData				
Obtain an IP address automatically	<input type="checkbox"/> Enable				
Option 60 Vendor ID					
Option 61 Client ID					
Option 125	<input checked="" type="radio"/> Disable <input type="radio"/> Enable				
WAN IP Address	162.244.232.5	WAN Subnet Mask	255.255.255.0	WAN gateway IP Address	162.244.232.1
Primary DNS	216.220.0.1				
Secondary DNS	216.220.30.1				
IPv6 for this service	<input type="checkbox"/> Enable				
NAT	<input checked="" type="checkbox"/> Enable	Fullcone NAT	<input checked="" type="checkbox"/> Enable		
Firewall	<input checked="" type="checkbox"/> Enable	IGMP Multicast	<input type="checkbox"/> Enable		
MTU	1500	MAC Spoofing			

ONLY IF REQUIRED -- DISABLES NETWORK ACCELERATION AND SOME SECURITY.

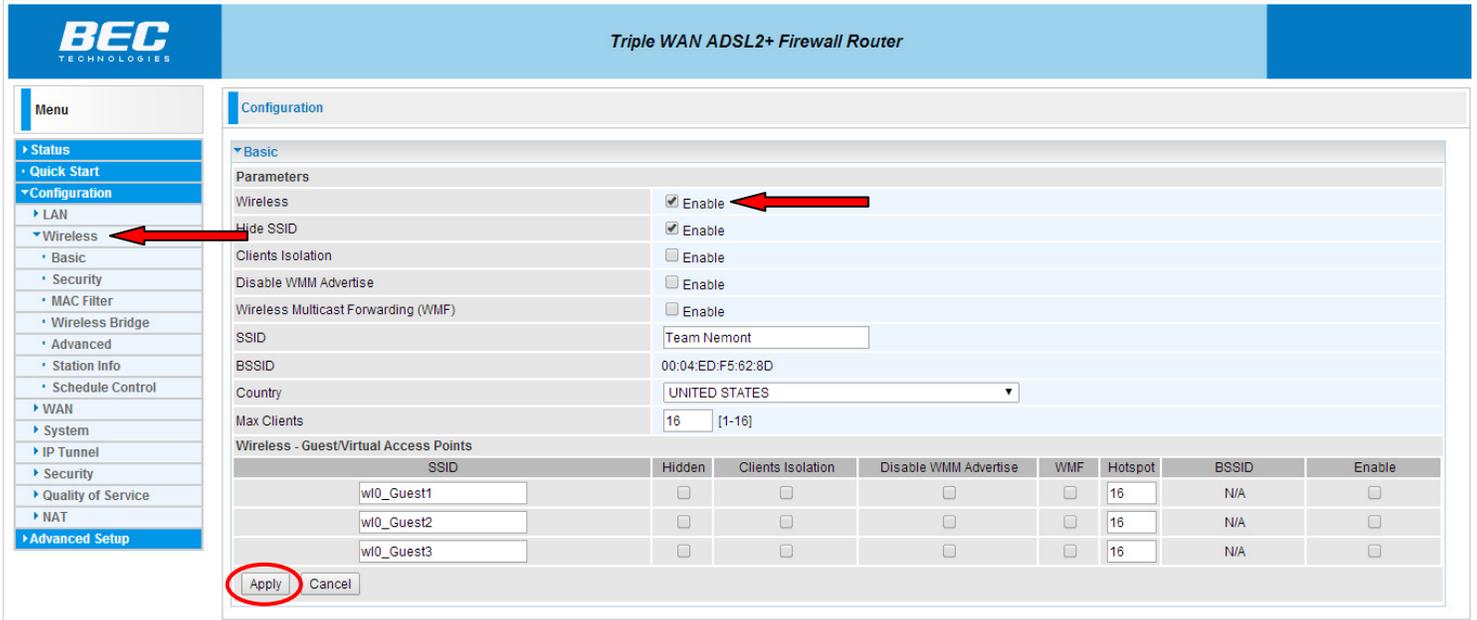
The following procedure is identical for all WAN interfaces.

Next uncheck the “**Enable**” checkbox next to “**Obtain an IP address automatically**”. Now enter the customer’s static IP address in the “**WAN IP Address**” box. The subnet mask will go in the “**WAN Subnet Mask**” box and their gateway IP will go in the “**WAN gateway IP Address Box**”.

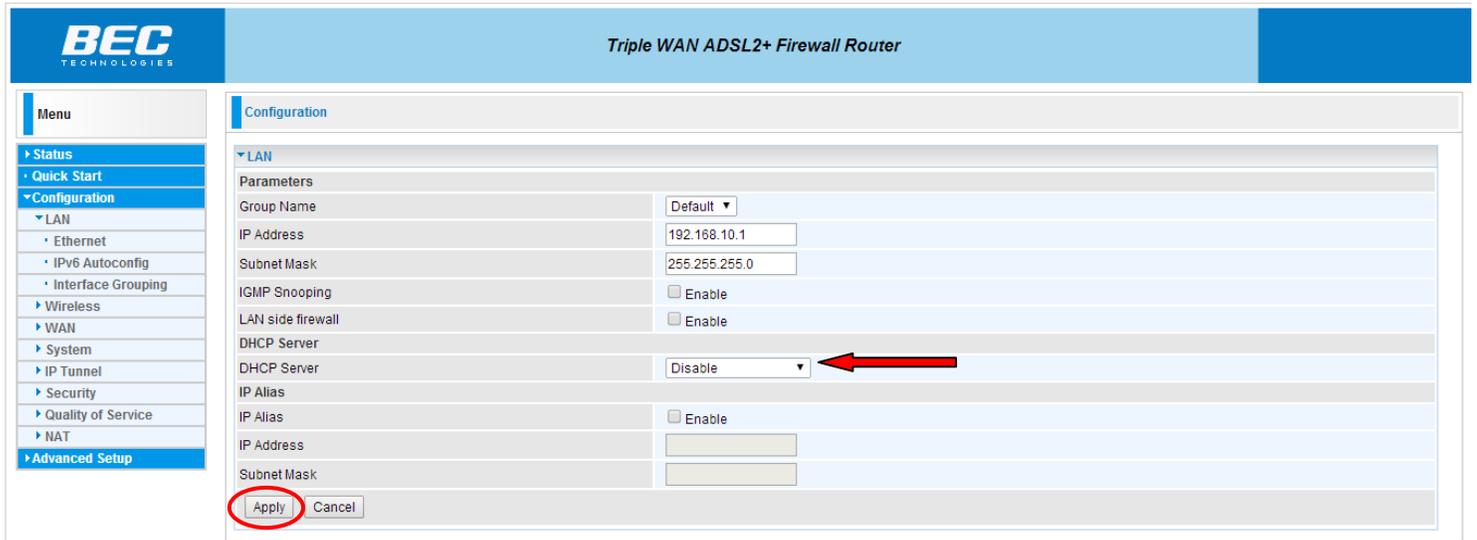
Next the DNS information will need to be put in. Enter these in the “**Primary DNS**” and “**Secondary DNS**” boxes and then click the “**Apply**” button. The modem should now be setup with the static IP

**At this time the “Primary DNS” is 216.220.0.1 and the “Secondary DNS” is 216.220.30.1**

If you want to **bridge** the modem click the “**Type**” dropdown box and select “**Bridging**”. Next click the “**Apply**” button. The modem is now bridged. One will also want to disable the LAN DHCP Server and the Wireless. See next page for those instructions.



To disable the Wireless click on “**Configuration**” and “**Wireless**” on the left hand menu. Now uncheck the “**Wireless**” Enable box and click the “**Apply**” button



To disable the LAN DHCP server click on “**Configuration**” and “**LAN**” on the left hand menu. Once there change the “**DHCP Server**” dropdown box to “**Disable**” and click the “**Apply**” button.

## **Finished**

Congratulations! You are now done configuring your BEC 8920NE modem.