Configuring a BEC 7800TN Wireless ADSL Modem

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ATTENTION!

Before the modem is programmed and installed for the first time, it must have the latest firmware on it. This can be found by logging into the modem per the instructions below. On the "Device Info" page find "Software Version", this should be 2.02e.RC3-dss3. If it is not, the firmware will need to be update before proceeding.

See <u>Page 14</u> of this document for instructions on flashing new firmware to the modem.

Setting Up the PC

Before you can get into your new BEC 7800TN 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: 216.129.224.1 SECONDARY DNS: 216.220.0.1

Logging Into the BEC 7800N

🖉 Blank Page - Windows I	nternet Explorer		
🕒 🗸 🖉 🗸	2.168.10.1/		💽 🍫 🗙 AVG Secure Search
File Edit View Favorites	Tools Help		
Connecting		ł	🕯 • 🔝 - 🖶 • 🔂 Page • 🎯 Tools • 🕢 • 🎼
	Connect to 192.168. The server 192.168.10.1 username and password. Warning: This server is re password be sent in an in without a secure connection User name: Password:	10.1	

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

	Parameters								
	Wireless	🗹 Ena	ble						
	Hide SSID	🗆 Ena	ble						
vice into iick Start	Clients Isolation	Ena	ble						
wanced Setup	Disable WMM Advertise	- Ena	ble						
reless	Wireless Multicast Forwarding (A/ME)		blo						
Basic		Licita	ule 						
Security	550	Nemor	Nemont						
IAC Filter	BSSID	00:04:E	00:04:ED:DD:E2:82						
Vireless Bridge	Country	UNITE	UNITED STATES						
ldvanced	May Olianta	10 11 10							
Station Info	Max cherits	10	[[1-10]						
nagement	Wireless - Guest/Virtual Access Points	5						1	
	SSID	Hidden	Clients Isolation	Disable VVMM Advertise	WMF	Max Clients	BSSID	Enable	
	wI0_Guest1					16	N/A		
	wI0_Guest2					16	N/A		
	wI0_Guest3					16	N/A		
						Second P. S.			
	Apply Cancel								

After logging into the modem's home page, click "**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.

1			outer	
	Wireless			
>Device Info	▼Security			
· Quick Start	WPS Setup			
Advanced Setup	WPS	Disable 🗸		
Wireless	Manual Setun AP			
' Basic		Noment		
· Security		Internont S		
· Wireless Bridge	Network Authentication	WPA-PSK		
Advanced	WPAWAPI passphrase		Click here to display	
Station Info	WPA Group Rekey Interval	0	[0-2147483647]	
Management	WPAWVAPI Encryption	TKIP+AES 🐱		
	Apply Cancel	Landra Contraction of		

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 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 customers wireless network card <u>DOES NOT</u> support WPA then this modem will not work with it. WEP encryption is **NOT** available. If customers wireless card will only do WEP then the "**Network Authentication**" will need to be set to "**None**"

<u>Setup</u>

If customer is ADSL/DHCP (Not FTTP), you are done configuring the BEC 7800TN modem! The modem is now ready for DHCP authentication.

If customer is FTTP/DHCP then skip to "Setup – Main Port" on page 12

*Proceed to the next page if the customer is <u>NOT</u> ADSL/DHCP or FTTP/DHCP.

TECHNOLOGIES	Dual WA	Dual WAN ADSL2+ Firewall Router						
	Device Info							
Device Info	▼Device Information							
uick Start	Model Name	BEC 7800TN R2						
dvanced Setup <	Host Name	home.gateway						
fireless	System Up-Time	7 Minute(s)						
anagement	Date/Time	Thu Jan 1 00:07:01 1970						
	Software Version	2.02d.dc2						
	LAN IPv4 Address	192.168.10.1						
	LAN IPv6 Address	fe80::204:edff.fedd:e282/64						
	MAC Address	00:04:ed:dd:e2:82						
	DSL PHY and Driver Version	A2pD032c.d23e						
	Wireless Driver Version	5.60.120.11.cpe4.06L03.8						
	-WAN							
	Line Rate - Upstream (Kbps)	0						
	Line Rate - Downstream (Kbps)	0						
	Default Gateway							
	Connection Time							
	Primary DNS Server	0.0.0.0						
	Secondary DNS Server	0.0.0.0						
	Default IPv6 Gateway							

After logging into the modem's home page, click the **"Advanced Setup"** link at the left of the page to begin configuring your modem.

BEC	Dual WAN ADSL2+ Firewall Router
	Advanced Setup
⊁Device Info	*WAN Interface
Quick Start	WAN Interface
Advanced Setup	Main Part DRI V (Current Main Part DRI)
WAN	
▶ LAN	Change
▶ NAT	ATMInterface
▶ Security	Arminenace
▶ Parental Control	Layer2 Interface
Quality of Service	Interface VPI VCI Category LinkType Connection Mode IP QoS Scheduler Alg Queue Weight Group Precedence Remove
▶ Routing	atm0 0 35 UBR EoA DefaultMode Enabled SP
> DNS	Add Pamova
• DSL	Not remove
• UPnP	
• DNS Proxy	1
Static DNS	1
 Interface Grouping 	
▶ Certificate	
Multicast	
Wireless	
Management	

Next you need to click on the "WAN" link at the left of the page.

Setup – Static IP

This section is only for customers with a static IP. If customer is DCHP then proceed to "Setup – Main Port" on page 12

BEC TECHNOLOGIES				Dual	WAN ADS	SL2+ Firev	vall Route	ər				
	^	Advance	d Setup									
Device Info		*WAN Ser	rvice									
Quick Start		WAN Set	m									
Advanced Setup		Interface	Description	Type	1/lon0024n	MonMudd	lama	MAT	1Dv6	MId	Domovo	Edit
-WAN		Intenace	Description	Type	vianou21p	VIGHIWUAIU	Binchied	19251	District of	iwitu -	Remove	Eun
• WAN Interface		atmu	ipoe_0_0_35	IPOE	N/A	N/A	Disabled	Enabled	Disabled	Disabled		Eau
• WAN Service		eth4	ipoe_eth4	IPoE	N/A	N/A	Disabled	Enabled	Disabled	Disabled		Edit
LAN		Add	Bomous									
▶ NAT		Huu	Remove									
Security												
Parental Control												
Quality of Service												
▶ Routing												
> DNS												
• DSL												
• UPnP												
· DNS Proxy												
Static DNS												
 Interface Grouping 												
▶ Certificate												
Multicast	~											4
												💞 Re
			Cop	vright @	BEC Techno	logies Inc. All	rights reserv	/ed.				

To configure the modem with the customers static IP click on the **"WAN Service"** link to the left. Here you'll see two different interfaces.

If the modem is on an **ADSL** connection then click the "**Edit**" button for the interface "**atm0**" and proceed to the next page.

If the modem is on a **FTTP** connection then click the "**Edit**" button for the interface "**eth4**" and proceed to the next page.

BEC	Dual WAN	I ADSL2+ Firewall Rou	ter				
	Advanced Setup						
Device Info	▼WAN Service						
Quick Start	Parameters						
Advanced Setup	Obtain an IP address automatically	🗆 Enable <	_				
• WAN Interface	Option 60 Vendor ID						
• WAN Service	Option 61 IAID		8 hexadecimal digits				
LAN							
▶ NAT	Option 61 DUID		hexadecimal digits				
Security	Option 125	Disable O Enable					
Parental Control	WAN IP Address	76 75 52 2					
Quality of Service	White Address	10.13.32.2					
Routing	WAN Subnet Mask	255.255.255.0					
DNS	WAN gateway IP Address	76.75.52.1					
• DSL	Obtain DNS	0tomotio					
· OPOP	Obtain Divo						
DNS PTOXy Chattle DNS	Primary DNS	216.129.224.1					
· Static DNS	Secondary DNS	216.220.01					
Interface Grouping		1.1					
· Multicaet	Back						
Mirologe							

First uncheck the "Enable" checkbox next to "Obtain an IP address automatically". Now enter the customers 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 "**Next**" button.

At this time the "Primary DNS" is 216.129.224.1 and the "Secondary DNS" is 216.220.0.1



And now click on the "Next" button again.

TECHNOLOGIES	Dı	al WAN ADSL2+ Firewall Router				
	Advanced Setup					
Device Info	*WAN Service					
Quick Start	Summary					
Advanced Setup	Male are that the actings hald	missaka karaatiissa seeddad burene ICD				
-WAN	Make sure that the settings below match the settings provided by your ISP.					
• WAN Interface	Туре	IPoE				
• WAN Service	NAT	Enabled				
▶ LAN	Fullcone NAT	Disabled				
▶ NAT		Distance				
▶ Security	IGMP Multicast	Disabled				
▶ Parental Control	Quality of Service	Disabled				
Quality of Service	Deally Annuly					
Routing	Back Apply					
▶ DNS						
• DSL						
• UPnP						
• DNS Proxy						
Static DNS						
 Interface Grouping 						
▶ Certificate						
Multicast	×		🖑 Res			
			0.8001003100			

And now click on the "Apply" button to save the changes.

If the customer is FTTP then proceed to the next page "Setup - Main Port"

If the customer is **ADSL** then the modem configuration is done. If the customer is DHCP, the modem is now ready for DHCP authentication. If customer has static IP the modem setup should be complete.

Setup – Main Port

BEC			Dual WA	N ADSL2+ Fire	ewall Ro	outer			
	Advance	ed Setup							
▶Device Info	*WAN Inte	erface							
Quick Start	WAN Inter	rface							
Advanced Setup	Main Port				urront Mair	Port: DRI)			
▶ WAN	Wall Poll	_			Jirent Man				
► LAN	Change	e							
▶ NAT	ATEA Inton	1200							
Security	ATWINTER	lace		1					
▶ Parental Control	Layer2 Int	terface		ATM 📉			la neri	1 MAR - MARA - MARA	
Quality of Service	Interface	VPI VCI Category	y Link Type	Connection Mode	IP QoS	Scheduler Alg	Queue Weight	Group Precedence	Remov
▶ Routing	atm0	0 35 UBR	EoA	DefaultMode	Enabled	SP			
> DNS	Add	Pernove							
• DSL		[Keniove]							
• UPnP									
DNS Proxy	1								
Static DNS									
 Interface Grouping 									
▶ Certificate									
Multicast									
Wireless	1								
Management									

On this page one can change the "**Main Port**" from "**DSL**" to "**Ethernet**" for use with a **FTTP** connection. The modem will use the "**EWAN**" port for its WAN connection instead of the "**DSL**" port. To set modem up for use on a **FTTP** choose "**Ethernet**" from this dropdown box.

Once you have picked what port type to use click the "Change" button.

Finished

Now you are done configuring your BEC 7800TN modem! If the customer is DHCP, the modem is now ready for DHCP authentication. If customer has static IP the modem setup should be complete.

Congratulations! You are now done configuring your BEC 7800TN Wireless ADSL modem.

Firmware Update

BELS TECHNOLOGIES	Dual WAN ADSL2+ Firewall Router					
	Device Info					
evice Info	▼Device Information					
uick Start	Model Name	BEC 7800TN R2				
dvanced Setup	Host Name	home.gateway				
fireless	System Up-Time	6 Hour(s) 16 Minute(s)				
Management	Date/Time	Wed Sep 21 22:08:33 2011				
anagement	Software Version	2.02e.RC3-dss3				
	LAN IPv4 Address	192.168.10.1				
	LAN IPv6 Address	fe80::204:edff.fedd:e282/64				
	MAC Address	00:04:ed:dd:e2:82				
	DSL PHY and Driver Version	A2pD032c.d23e				
	Wireless Driver Version	5.60.120.11.cpe4.06L03.8				
	*WAN					
	Line Rate - Upstream (Kbps)	510				
	Line Rate - Downstream (Kbps)	1536				
	Default Gateway	atm0				
	Connection Time					
	Primary DNS Server	216.129.224.1				
	Secondary DNS Server	216.220.30.1				
	Default IPv6 Gateway					

Start the firmware update process by clicking on "Management" on the left side of the page.

BEC		Dual WAN ADSL2+ Firewall Router
	Management	
>Device Info	▼Update Software	
Quick Start	You may upgrade the system	n software on your network device.
Advanced Setup	After upgrading, let your devi	ce restart with factory default settings or current settings.
Wireless		O Factory Default Settings
Management	Restart device with	
▶ Log		• Current Settings
SNMP Agent	New Firmware Image	C.\Documents and Settings\gary\Desktor
 TR-069 Client 		
 Internet Time 	Opgrade	
• Mail Alert		
• Wake On LAN		
 Access Control 		
 Remote Access 		
Time Schedule		
• Update Software		
 Backup / Update 		

Next click on "**Update Software**" listed under "**Management**" on the left hand side of the page. If this is the first time this modem is used it doesn't matter which "**Restart device with**" option is chosen. If this modem is currently installed and you want all your current settings to be saved during the update choose "**Current Setting**".

Next click on the "**Browse**" button and select the firmware file "**BEC7800R2_2.02e.RC3-dss3.rfw**" located on your computer. Once selected click on the "Upgrade" button. The upgrade process may take several minutes to complete.