4-Port Cable/DSL Gateway Router

Share your broadband Internet connection and files

User Manual

F5D5231-4

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INTRODUCTION

Thank you for purchasing the Belkin Cable/DSL Gateway Router (the Router). In minutes you will be able to share your Internet connection and network your computers. The following is a list of features that make your new Router an ideal solution for your home or small office network.

Key Features

Easy Install Wizard

The Easy Install Wizard takes the guesswork out of setting up your Router. This automatic software determines your network settings for you and sets up the Router for connection to your Internet Service Provider (ISP). In a matter of minutes, your Router will be up and running on the Internet.

NOTE: *Easy Install Wizard software is compatible with Windows 98, Me, 2000, and XP. If you are using another operating system, the Router can be set up using the Alternative Method described in this manual.*

Works with Both PCs and Mac® Computers
The Router supports a variety of networking environments including Mac® OS 8.x, 9.x, X v10.x, AppleTalk®, Linux®, Windows® 95, 98, Me, NT®, 2000, and XP, and others. All that is needed is an Internet browser and a network adapter that supports TCP/IP (the standard language of the Internet).

Front-Panel Connected LED Display
Lighted LEDs on the front of the Router indicate which functions are in operation. You'll know at-a-glance whether your Router is connected to the Internet. This feature eliminates the need for advanced software and status-monitoring procedures.

Vertical or Horizontal Desktop Application
Your Router can stand vertically on the desktop to save space, or lay down flat on a shelf or under your modem. The included vertical mounting base lets you decide how to position the Router.

Web-Based Advanced User Interface
You can set up the Router's advanced functions easily through your web browser, without having to install additional software onto the computer. There are no disks to install or keep track of and, best of all, you can make changes and perform setup functions from any computer on the network quickly and easily.

NAT IP Address Sharing
Your Router employs Network Address Translation (NAT) to share the single IP address assigned to you by your Internet Service Provider while saving the cost of adding additional IP addresses to your Internet service account.

SPI Firewall
Your Router is equipped with a firewall that will protect your network from a wide array of common hacker attacks including IP Spoofing, Land Attack, Ping of Death (PoD), Denial of Service (DoS), IP with zero length, Smurf Attack, TCP Null Scan, SYN flood, UDP flooding, Tear Drop Attack, ICMP defect, RIP defect, and fragment flooding.

Integrated 10/100 4-Port Switch
The Router has a built-in, 4-port network switch to allow your wired computers to share printers, data and MP3 files, digital photos, and much more. The switch features automatic detection so it will adjust to the speed of connected devices. The switch will transfer data between computers and the Internet simultaneously without interrupting or consuming resources.

Universal Plug-and-Play (UPnP) Compatibility
UPnP (Universal Plug-and-Play) is a technology that offers seamless operation of voice messaging, video messaging, games, and other applications that are UPnP-compliant.

Support for VPN Pass-Through
If you connect to your office network from home using a VPN connection, your Router will allow your VPN-equipped computer to pass through the Router and to your office network.

Built-In Dynamic Host Configuration Protocol (DHCP) on-board makes for the easiest possible connection of a network. The DHCP server will assign IP addresses to each computer automatically so there is no need for a complicated networking setup.

MAC Address Filtering
For added security, you can set up a list of MAC addresses (unique client identifiers) that are allowed access to your network. Every computer has its own MAC address. Simply enter these MAC addresses into a list using the web-based user interface and you can control access to your network.

Applications and Advantages
- Economically connect multiple computers to a single Internet connection
- SOHO (Small Office/Home Office) networking needs
  Provides the easy and quick small network installation SOHO users need.

INTRODUCTION

Package Contents

- Belkin Cable/DSL Gateway Router
- Vertical Mounting Base (optional use)
- Category 5 Networking Cable
- Power Supply
- Belkin Easy Install Wizard Software CD
- User Manual

System Requirements

- Broadband Internet connection such as a cable or DSL modem with RJ45 (Ethernet) connection
- At least one computer with an installed network interface adapter
- TCP/IP networking protocol installed on each computer
- CAT5 networking cable (or better)
- Microsoft® Internet Explorer 4.0 or later, or Netscape® 4.0 or later

Easy Install Wizard Software System Requirements

- A PC running Windows 98, Me, 2000, or XP
- Minimum 64MB RAM
- Internet Browser

NOTE: *At the time of printing, a version of the Easy Install Wizard was not available for Mac OS users. Please check www.networking.belkin.com to see if a Mac OS version of the Easy Install Wizard is now available.*

KNOWING YOUR BELKIN ROUTER

The Router has been designed to be placed on a desktop vertically or horizontally, or it may be mounted to a wall. The slim design minimizes the desktop space required when placed vertically. All of the cables exit from the rear of the Router for better organization and utility. The LED indicators are easily visible on the front of the Router to provide you with information about network activity and status.

1. Power/Ready LED

When you apply power to the Router or restart it, a short period of time elapses while the Router boots up. During this time, the "Power/Ready" LED blinks. When the Router has completely booted up, the Power/Ready LED becomes a SOLID light, indicating the Router is ready for use.

OFF	Router is OFF
Blinking Green	Router is Booting Up
Solid Green	Router is Ready

2. LAN Port-Status LEDs

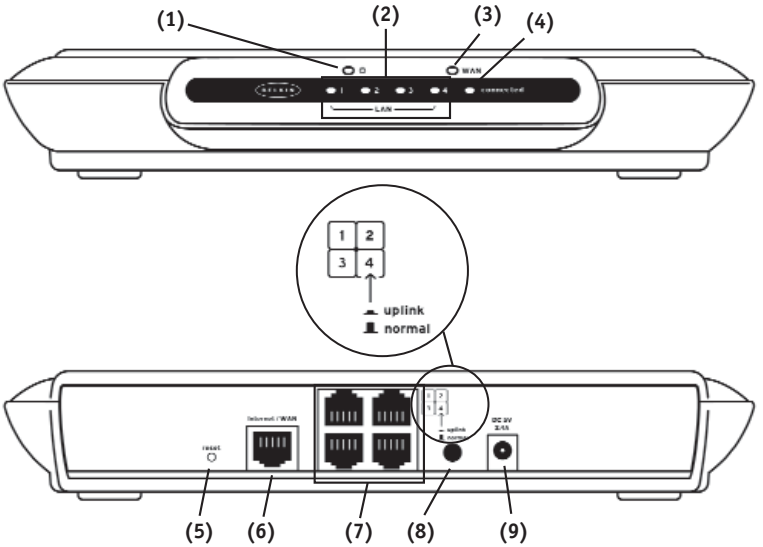
These LEDs are labeled 1–4 and correspond to the numbered ports on the rear of the Router. When a computer is properly connected to one of the LAN ports on the rear of the Router, the LED will light. GREEN means a 10Base-T device is connected, AMBER means a 100Base-Tx device is connected. When information is being sent over the port, the LED blinks rapidly.

OFF	No Device is Linked to the Port
Green	10Base-T Device Connected
Orange	100Base-Tx Device Connected
Blinking (Orange or Green)	Port Activity

3. WAN Status LED

This LED lights in GREEN to indicate that your modem is connected properly to the Router. It blinks rapidly when information is being sent over the port between the Router and the modem.

OFF	No WAN Link
Solid Green	Good WAN Link
Blinking Green	WAN Activity



4. Connected LED

This unique LED shows you when the Router is connected to the Internet. When the light is OFF, the Router is NOT connected to the Internet. When the light is blinking, the Router is attempting to connect to the Internet. When the light is solid GREEN, the Router is connected to the Internet. When using the "Disconnect after x minutes" feature, this LED becomes extremely useful in monitoring the status of your Router's connection.

OFF	Router is not Connected to the Internet
Blinking Green	Router is Attempting to Connect to the Internet
Solid Green	Router is Connected to the Internet

5. Reset Button

The "Reset" button is used in rare cases when the Router may function improperly. Resetting the Router will restore the Router's normal operation while maintaining the programmed settings. You can also restore the factory default settings by using the Reset button. Use the restore option in instances where you may have forgotten your custom password.

a. Using the Reset Button to Reset the Router

Push and release the Reset button. The lights on the Router will

momentarily flash. The Power/Ready light will begin to blink. When the Power/Ready light becomes solid again, the reset is complete.

b. Using the Reset Button to Restore the Factory Defaults
Press and hold the Reset button for five seconds then release it. The lights on the Router will momentarily flash. The Power/Ready light will begin to blink. When the Power/Ready light becomes solid again, the restore is complete.

6. Internet/WAN Port

This port is for connection to your cable or DSL modem. To ensure proper functioning, use the cable that was provided with your modem to connect the modem to this port.

NOTE: *Using a cable other than the cable supplied with your cable or DSL modem may cause malfunctioning.*

7. LAN Ports

The LAN ports are RJ45, 10/100 auto-negotiation ports for standard UTP category 5 or 6 Ethernet cable. The ports are labeled 1–4. These ports correspond to the numbered LEDs on the front of the Router. Note that Port 4 can be made into an uplink port. This means that by pressing the uplink button in, Port 4 will become an uplink port for the addition of a switch or hub. For more information about the uplink button, see "Uplink Button" below.

8. Uplink Button

The "Uplink" button is provided for use of Port 4 to connect to a hub or a switch for expanding the number of network ports on the Router. If you are connecting a switch or hub to the Router, connect a straight-through (standard) network cable to this port and to a port on the switch or hub. Press the Uplink button IN. This will switch Port 4 into an uplink port.

NOTE: *If you connect a computer to Port 4, and the link LED for Port 4 will not turn on, check the Uplink button to make sure that it is in the "Normal" position (OUT).*

9. Power Jack

Connect the included 5V DC power supply to this jack.

CONNECTING AND CONFIGURING YOUR CABLE/DSL GATEWAY ROUTER

Verify the contents of your box. You should have the following:

- Belkin Cable/DSL Gateway Router
- Vertical Mounting Base (optional use)
- Category 5 Networking Cable (for connection of the Router to the computer)
- Power Supply
- Belkin Easy Install Wizard Software CD
- User Manual

Modem Requirements

Your cable or DSL modem must be equipped with an RJ45 Ethernet port. Many modems have both an RJ45 Ethernet port and a USB connection. If you have a modem with both Ethernet and USB, and are using the USB connection at this time, you will be instructed to use the RJ45 Ethernet port during the installation procedure. If your modem has only a USB port, you can request a different type of modem from your ISP, or you can, in some cases, purchase a modem that has an RJ45 Ethernet port on it.

Ethernet USB

Easy Install Wizard

Belkin has provided our Easy Install Wizard software to make installing your Router a simple and easy task. You can use it to get your Router up and running in minutes. The Easy Install Wizard requires that your Windows 98, Me, 2000, or XP computer be connected directly to your cable or DSL modem and that the Internet connection is active and working at the time of installation. If it is not, you must use the "Alternative Setup Method" section of this manual to configure your Router. Additionally, if you are using an operating system other than Windows 98, Me, 2000, or XP, you must set up the Router using the "Alternative Setup Method" section of this manual.

IMPORTANT: Run the Easy Install Wizard from the computer that is directly connected to the cable or DSL modem. **DO NOT CONNECT THE ROUTER AT THIS TIME.**

Step 1: Run the Easy Install Wizard Software

1. Shut down any programs that are running on your computer at this time.

2. Make sure you have the following items at the computer that is now directly connected to the cable or DSL modem. **DO NOT CONNECT THE ROUTER AT THIS TIME.**

- The Easy Install Wizard CD-ROM
- The Router
- The Router power supply
- Category 5 networking cable
- This User Manual

3. Turn off any firewall or Internet connection sharing software on your computer.

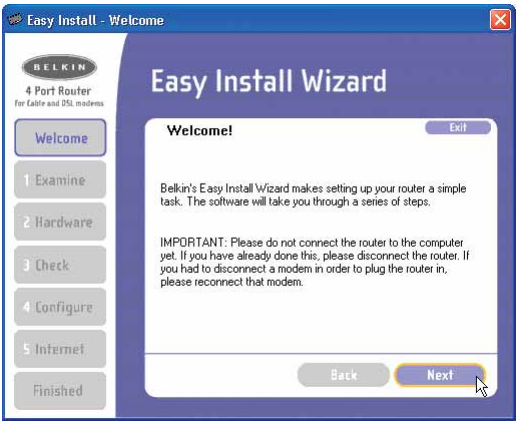
4. Insert the Easy Install Wizard software CD into your CD–ROM Drive. The Easy Install Wizard screen will automatically appear on your screen within 15 seconds. If it does not, select your CD-ROM drive from "My Computer" and double-click on the file named "Setup" on the CD-ROM.

Step 2: Follow the Easy Install Wizard to Complete the Installation

2.1 Click on "Set Up the Router" to begin.

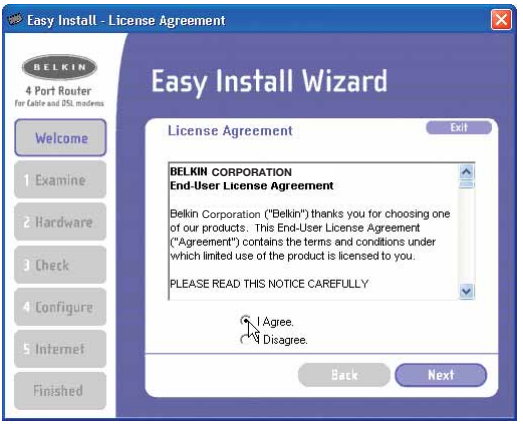
2.2 Welcome Screen

The Wizard welcome screen will appear. Make sure you have not connected the Router at this point. If you have connected your Router, please reconnect your computer directly to the modem. Click “Next” when you are ready to move on.



2.3 License Agreement

Please read the license agreement in the window. When you are finished, select “I agree” if you want to continue using the software. Click “I disagree” if you do not want to continue. Click “Next” to move on.

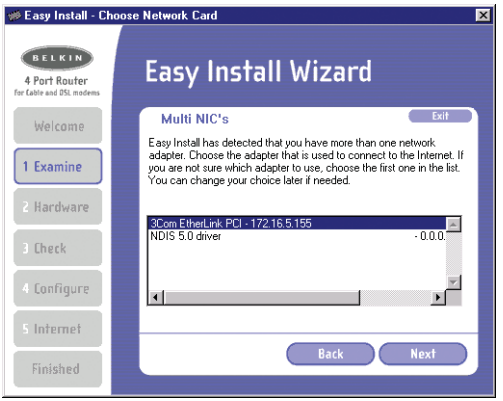


2.4 Examining Settings

The Wizard will now examine your computer's settings and gather information needed to complete the Router's connection to the Internet.

2.5 Multi-NICs Screen

This screen will appear ONLY if you have more than one network adapter installed in your computer. If you have more than one network adapter installed in your computer, the Wizard will need to know which adapter is connected to your modem. Select the network card that is connected to your modem from the list and click "Next". If you are not sure which adapter to choose, select the adapter at the top of the list. If you mistakenly choose the wrong adapter now, you will be able to choose a different one later.



2.6 PPPoE Connection Detected

If you have a connection type that requires a user name and a password, the Wizard will ask you to type in your user name and password. If your connection type does not require a user name and password, you will not see this screen.

Your user name and password is provided to you by your Internet Service Provider. If you have to type in a user name and password to connect to the Internet, then type that same user name and password in here. Your user name looks something like “myname@myISP.com” or simply “myname”. The service name is optional and is very rarely required by your ISP. If you don’t know your service name, leave this blank. When you have entered your information, click “Next” to move on.

Step 3: Connect the Router to your Modem and Computer

The Wizard will ask you to connect your Router. Follow the steps on the screen, or do the following:

3.1 Turn off the power to your modem by unplugging the power supply from the modem.

3.2 Locate the network cable that is connected between your modem and your computer and unplug it from your computer, leaving the other end connected to your modem.

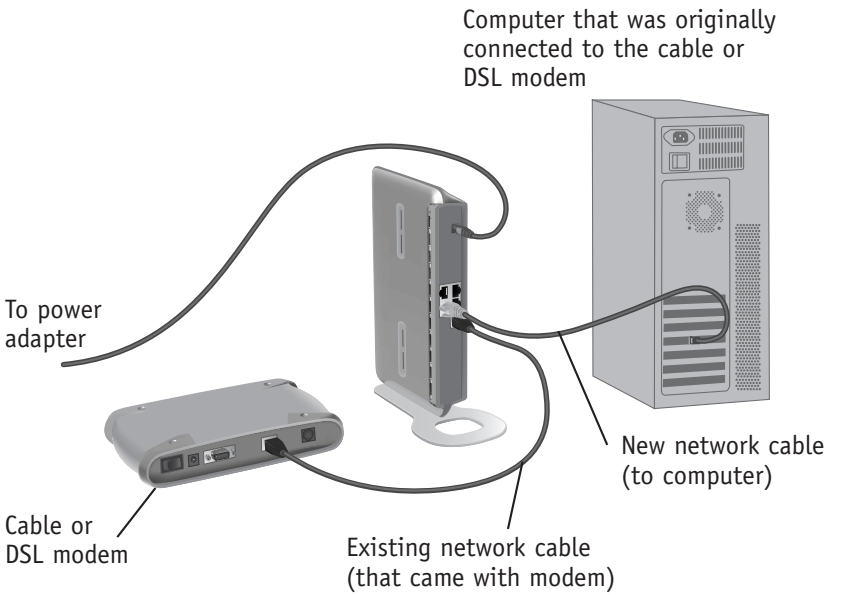
3.3 Plug the loose end of the cable you just unplugged into the port on the back of the Router labeled “Internet/WAN”.

3.4 Connect the new network cable from the back of the computer to one of the ports labeled "1–4".
NOTE: *It does not matter which numbered port you choose.*

3.5 Turn on your cable or DSL modem by reconnecting the power supply to the modem.

3.6 Before plugging the power cord into the Router, plug the cord into the wall, then plug the cord into the Router's power jack.

3.7 Verify that your modem is connected to the Router by checking the lights on the front of the Router. The green light labeled "WAN" should be ON if your modem is connected correctly to the Router. If it is not, recheck your connections.

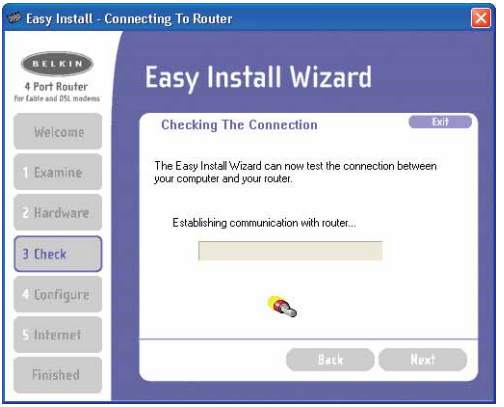


3.8 Verify that your computer is connected properly to the Router by checking the lights labeled "LAN 1,2,3,4". The light which corresponds to the numbered port that you connected your computer to should be ON if your computer is connected properly.

Step 4: Continue Following the Wizard's Instructions

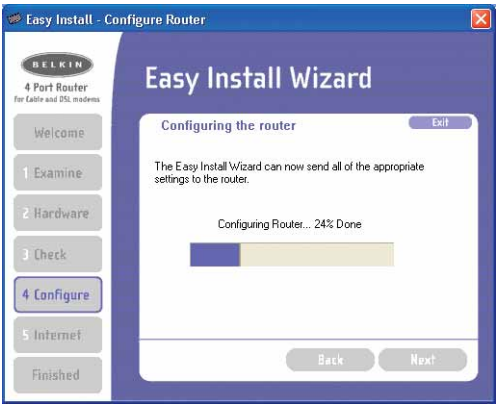
4.1 Checking the Connection

Once you have completed the connection of your Router, the Wizard will check the connection to the Router. If the Router is not detected, use the "Troubleshooting" button or refer to the "Troubleshooting" section of this guide to obtain help about how to correct the problem. If the Wizard is able to communicate with the Router, the Wizard will move on to the next step.

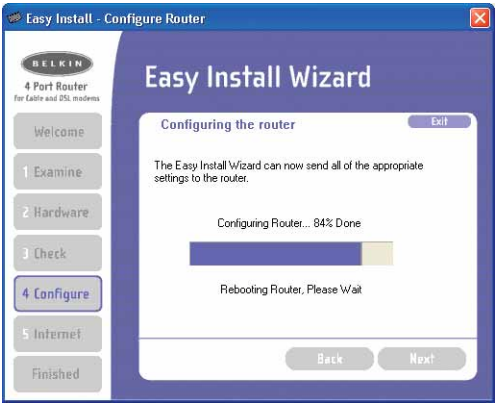


4.2 Configuring the Router

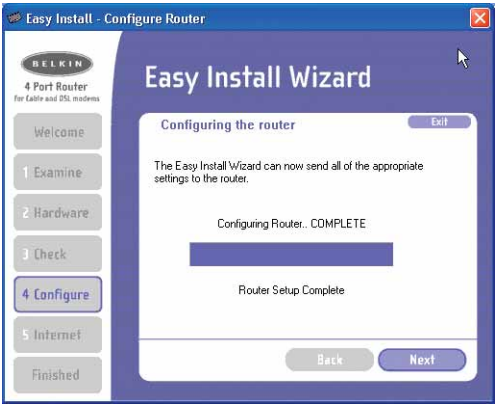
The Wizard will now transfer all of the configuration information to the Router. This will take approximately one minute.



4.3 When the transfer is complete, the Wizard will tell you that it is done and may reboot (restart) the Router.



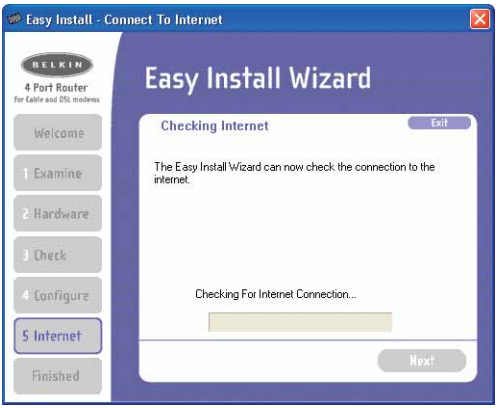
4.4 When configuration is complete, the Wizard will tell you "Router Setup Complete" and it will move to the next step.



4.5 Checking Internet

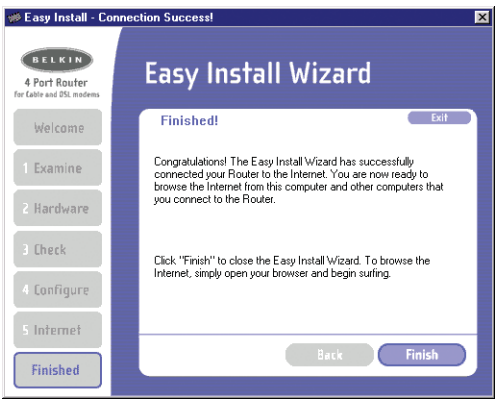
The Wizard will now check for an Internet connection. This can take a few minutes. The Wizard may not detect a connection right away. If not, it will retry a number of times. The "Connected" light on the front panel of the Router will flash during this time. Please be patient through this process. If at the end of this process the Wizard cannot connect to the Internet, use the Troubleshooting

button or refer to the Troubleshooting section of this guide to obtain help about how to correct the problem.



4.6 Finished

When the Internet connection is complete, the Wizard will tell you that you are finished. The "Connected" LED on the front of the Router will be solid GREEN, indicating that the Router is now connected to the Internet.



Your Router is now connected to the Internet. Now you can begin surfing the Internet by opening your browser and going to your favorite web page.

Congratulations! You have finished installing your new Belkin Router. You are ready to set up the other computers in your home. You can also add computers to your Router any time you want. Simply follow step 5 to learn how to add more computers.

Step 5: Adding Other Computers to your Network Using the Easy Install Wizard

If you have other computers in your home that are already equipped with a network adapter, you can use the Easy Install Wizard to set up those computers to connect to your Router. If you are adding a Belkin network adapter your other computers, install the adapter per the instructions for the adapter. When the installation of the adapter is finished, your computer will be set up to connect to the Router. You do not need to use the Easy Install Wizard to set up the computer.

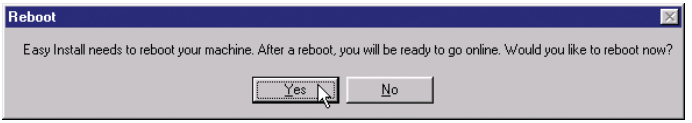
For Computers Already Equipped with a Network Adapter

5.1 Connect an Ethernet cable between the computer you want to add to the network and the Router.

5.2 Insert the CD into your CD-ROM drive. The Easy Installation Wizard screen will automatically pop-up on your screen within 15 seconds. If it does not, select your CD-ROM drive and double-click on the file named "Setup" on the CD-ROM.

5.3 Click "Add computers".

5.4 The Wizard will make the changes needed to add your computer to the network. When finished, it will prompt to reboot your computer. Click "Yes".



5.5 When your computer reboots, your computer will be connected to the network. To begin surfing the Internet, open your browser and go to your favorite web page.

You are finished adding the computer to the network. To add more computers, repeat this process on each computer you wish to add.

Alternate Setup Method

The Advanced User Interface is a web-based tool that you can use to set up the Router if you don't want to use the Easy Install Wizard. You can also use it to manage advanced functions of the Router. From the Advanced User Interface, you can perform the following tasks:

- View the Router's current settings and status.
- Configure the Router to connect to your ISP with the settings that they provided you.

Change the current network settings such as the Internal IP address, the IP address pool, DHCP settings, and more.

- Set the Router's firewall to work with specific applications (port forwarding).
- Set up security features such as client restrictions and MAC address filtering.
- Enable the DMZ feature for a single computer on your network.
- Change the Router's internal password.
- Enable/Disable UPnP (Universal Plug-and-Play).
- Reset the Router.
- Back up your configuration settings.
- Reset the Router's default settings.
- Update the Router's firmware.

Step 1: Connecting your Gateway/Router

1.1 Turn off the power to your modem by unplugging the power supply from the modem.

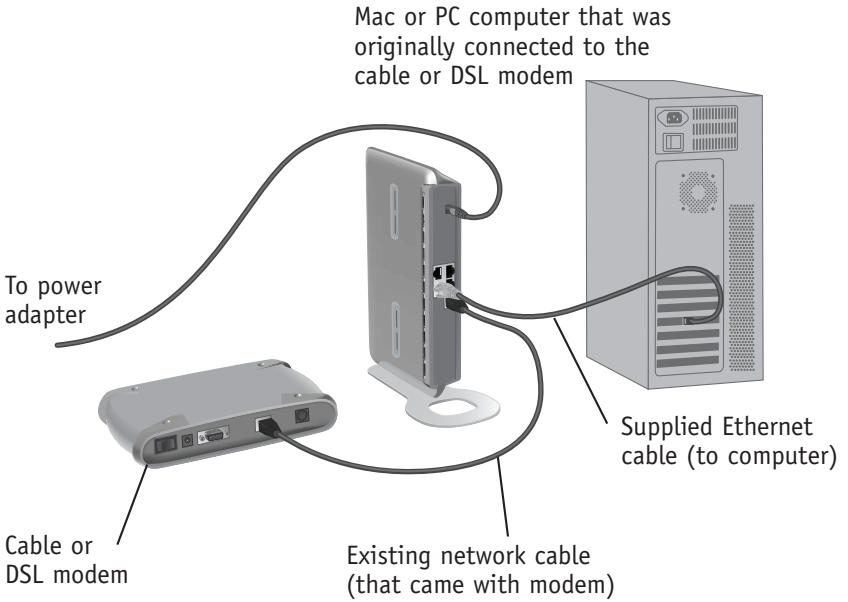
1.2 Locate the network cable that is connected between your modem and your computer and unplug it from your computer, leaving the other end connected to your modem.

1.3 Plug the loose end of the cable you just unplugged into the port on the back of the Router labeled "Internet/WAN".

1.4 Connect a new network cable (not included) from the back of the computer to one of the ports labeled "1–4".
NOTE: *It does not matter which numbered port you choose.*

1.5 Turn your cable or DSL modem on by reconnecting the power supply to the modem.

1.6 Before plugging the power cord into the Router, plug the cord into the wall, then plug the cord into the Router's power jack.



1.7 Verify that your modem is connected to the Router by checking the lights on the front of the Router. The green light labeled "WAN" should be ON if your modem is connected correctly to the Router. If it is not, recheck your connections.

1.8 Verify that your computer is connected properly to the Router by checking the lights labeled "LAN 1,2,3,4". The light which corresponds to the numbered port connected to your computer should be ON, if your computer is connected properly. If it is not, recheck your connections.

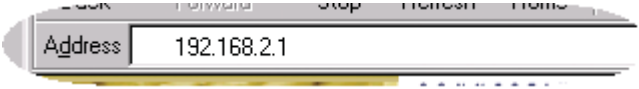
Step 2: Set your Computer's Network Settings to Work with a DHCP Server

See the section in this manual called "Manually Configuring Network Settings" for directions.

Step 3: Configuring the Router Using the Web-Based Advanced User Interface

Using your Internet browser, you can access the Router's Web-Based Advanced

User Interface. In your browser, type “192.168.2.1” (do not type in anything else such as “http://” or “www”). Then press the “Enter” key.



Logging into the Router

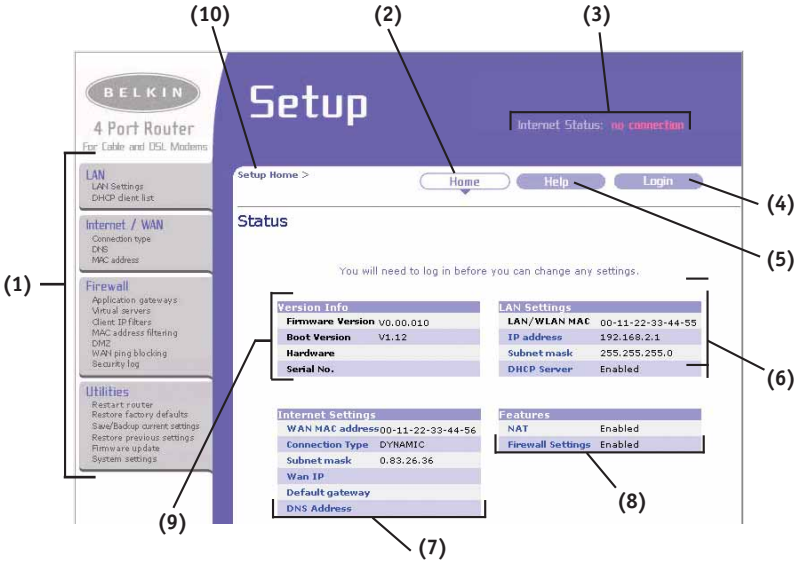
You will see the Router’s home page in your browser window. The home page is visible to any user who wants to see it. To make any changes to the Router’s settings, you have to log in. Clicking the “Login” button or clicking on any one of the links on the home page will take you to the login screen. The Router ships with no password entered. In the login screen, leave the password blank and click the “Submit” button to log in.

Logging out of the Router

One computer at a time can log in to the Router for the purposes of making changes to the settings of the Router. Once a user has logged in to make changes, there are two ways that the computer can be logged out. Clicking the “Logout” button will log the computer out. The second method is automatic. The login will time out after a specified period of time. The default login time out is 10 minutes. This can be changed from 1 to 99 minutes. For more information, see the section in this manual titled “Changing the Login Timeout Setting”.

Understanding the Web-Based Advanced User Interface

The home page is the first page you will see when you access the Advanced User Interface (UI). The home page shows you a quick view of the Router's status and settings. All advanced setup pages can be reached from this page.



1. Quick-Navigation Links

You can go directly to any of the Router's advanced UI pages by clicking directly on these links. The links are divided into logical categories and grouped by tabs to make finding a particular setting easier to find. Clicking on the purple header of each tab will show you a short description of the tab's function.

2. Home Button

The home button is available in every page of the UI. Pressing this button will take you back to the home page.

3. Internet Status Indicator

This indicator is visible in all pages of the Router, indicating the connection status of the Router. When the indicator says "connection OK" in GREEN, the Router is connected to the Internet. When the Router is not connected to the Internet, the indicator will read "no connection" in RED. The indicator is automatically updated when you make changes to the settings of the Router.

4. Login/Logout Button

This button enables you to log in and out of the Router with the press of one button. When you are logged into the Router, this button will change to read "Logout". Logging into the Router will take you to a separate login page where you will need to enter a password. When you are logged in to the Router, you can make changes to the settings. When you are finished making changes, you can log out of the Router by clicking the "Logout" button. For more information about logging into the Router, see the section called "Logging into the Router".

5. Help Button

The "Help" button gives you access to the Router's help pages. Help is also available on many pages by clicking "more info" next to certain sections of each page.

6. LAN Settings

Shows you the settings of the Local Area Network (LAN) side of the Router. Changes can be made to the settings by clicking on any one of the links (IP Address, Subnet Mask, DHCP Server) or by clicking the "LAN" Quick Navigation link on the left side of the screen.

7. Features

Shows the status of the Router's NAT, firewall, and wireless features. Changes can be made to the settings by clicking on any one of the links or by clicking the "Quick Navigation" links on the left side of the screen.

8. Internet Settings

Shows the settings of the Internet/WAN side of the Router that connects to the Internet. Changes to any of these settings can be made by clicking on the links or by clicking on the "Internet/WAN" Quick Navigation link on the left side of the screen.

9. Version Info

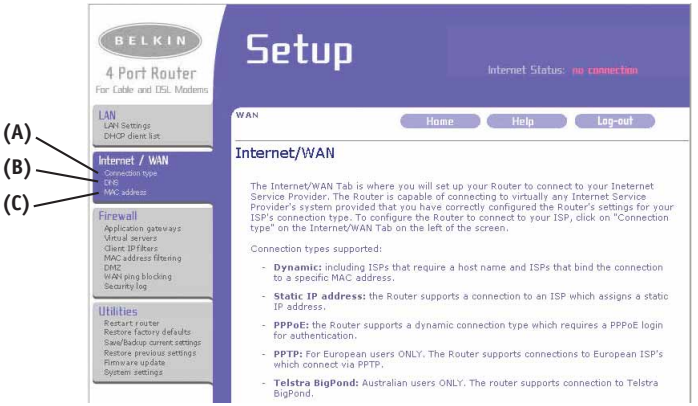
Shows the firmware version, boot-code version, hardware version, and serial number of the Router.

10. Page Name

The page you are on can be identified by this name. This manual will sometimes refer to pages by name. For instance "LAN > LAN Settings" refers to the "LAN Settings" page.

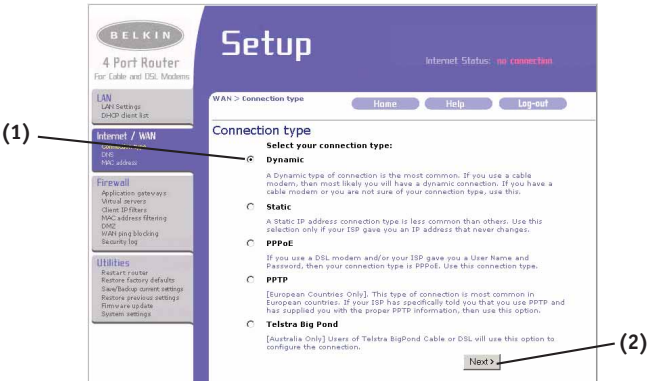
Step 4: Configuring your Router for Connection to your ISP

The "Internet/WAN" tab is where you will set up your Router to connect to your Internet Service Provider. The Router is capable of connecting to virtually any Internet Service Provider's system provided you have correctly configured the Router's settings for your ISP's connection type. Your ISP connection settings are provided to you by your ISP. To configure the Router with the settings that your ISP gave you, click "Connection Type" **(A)** on the left side of the screen. Select the connection type you use. If your ISP gave you DNS settings, clicking "DNS" **(B)** allows you to enter DNS address entries for ISPs that require specific settings. Clicking "MAC address" **(C)** will let you clone your computer's MAC address or type in a specific WAN MAC address, if required by your ISP. When you have finished making settings, the "Internet Status" indicator will read "connection OK" if your Router is set up properly.



Setting your Connection Type

From the connection type page, you can select the type of connection you use. Select the type of connection you use by clicking the radio button **(1)** next to your connection type and then clicking "Next" **(2)**.



Setting your ISP Connection Type to Dynamic IP

A dynamic connection type is the most common connection type found with cable modems. Setting the connection type to "dynamic" in many cases is enough to complete the connection to your ISP. Some dynamic connection types may require a host name. You can enter your host name in the space provided if you were assigned one. Your host name is assigned by your ISP. Some dynamic connections may require that you clone the MAC address of the PC that was originally connected to the modem.

1. Host Name

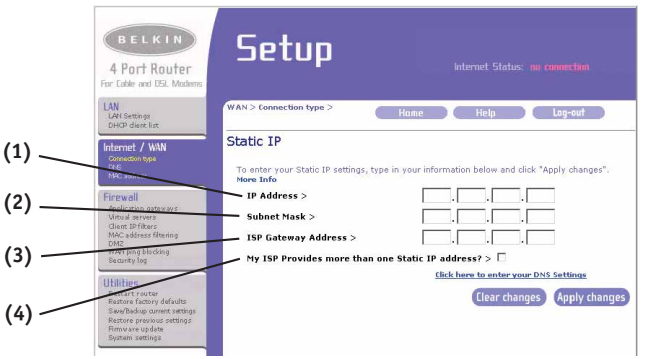
This space is provided to enter a host name that needs to be visible to your ISP. Enter your host name here and click "Apply Changes" **(3)**. If your ISP did not assign you a host name, or you are not sure, leave this blank.

2. Change WAN MAC Address

If your ISP requires a specific MAC address to connect to the service, you can enter a specific MAC address or clone the current computer's MAC address through this link.

Setting your ISP Connection Type to Static IP

A static IP address connection type is less common than other connection types. If your ISP uses static IP addressing, you will need your IP address, subnet mask, and ISP gateway address. This information is available from your ISP or on the paperwork that your ISP left with you. Type in your information, then click "Apply Changes" **(5)**. After you apply the changes, the Internet Status indicator will read "connection OK" if your Router is set up properly.



1. IP Address

Provided by your ISP. Enter your IP address here.

2. Subnet Mask

Provided by your ISP. Enter your subnet mask here.

3. ISP Gateway Address

Provided by your ISP. Enter the ISP gateway address here.

4. My ISP Provides More Than one Static IP Address

If your ISP assigns you more than one static IP address, your Router is capable of handling up to five static WAN IP addresses. Select "My ISP provides more than one static IP address" and enter your additional addresses.

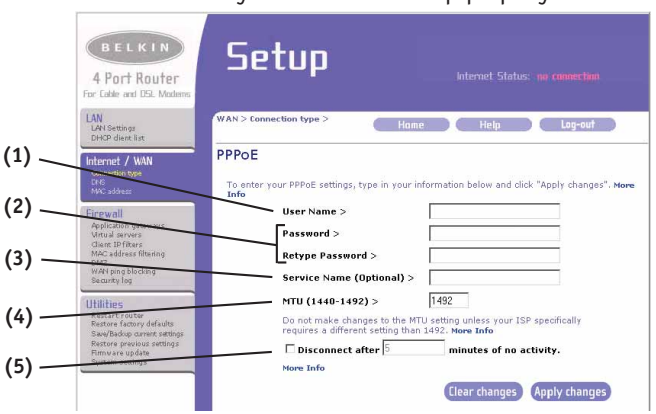
Setting your ISP Connection Type to Point-to-Point Protocol over Ethernet (PPPoE)

Most DSL providers use PPPoE as the connection type. If you use a DSL modem to connect to the Internet, your ISP may use PPPoE to log you into the service. If you have an Internet connection in your home or small office that doesn't require a modem, you may also use PPPoE.

Your connection type is PPPoE if:

1) Your ISP gave you a user name and password that is required to connect to the Internet;
2) Your ISP gave you software such as WinPOET, Enternet300 that you use to connect to the Internet; or,
3) You must double-click on a desktop icon other than your browser to get on the Internet.

To set the Router to use PPPoE, type in your user name and password in the spaces provided. If you do not have a service name or do not know it, leave the "Service Name" field blank. After you have typed in your information, click "Apply Changes" **(6)**. After you apply the changes, the Internet Status indicator will read "connection OK" if your Router is set up properly.



1. User Name
This space is provided to type in your user name that was assigned by your ISP.

2. Password
Type in your password and retype it into the "Retype Password" box to confirm it.

3. Service Name
A service name is rarely required by an ISP. If you are not sure if your ISP requires a service name, leave this blank.

4. MTU

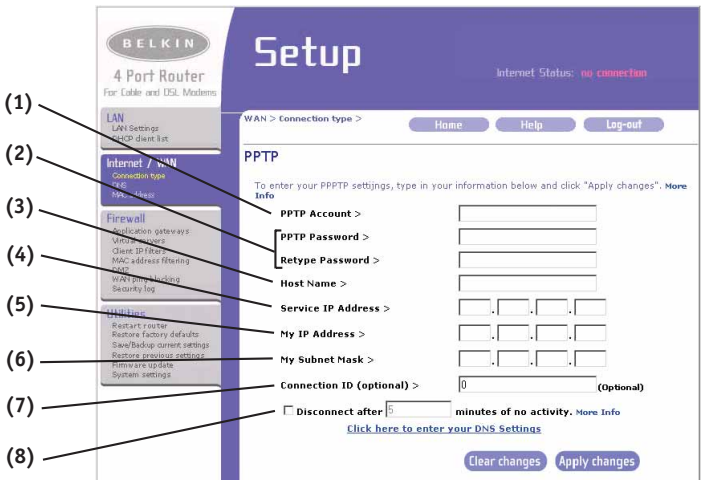
The MTU setting should never be changed unless your ISP gives you a specific MTU setting. Making changes to the MTU setting can cause problems with your Internet connection including disconnection from the Internet, slow Internet access, and problems with Internet applications working properly.

5. Disconnect after X....

The "Disconnect" feature is used to automatically disconnect the Router from your ISP when there is no activity for a specified period of time. For instance, placing a check mark next to this option and entering "5" into the minute field will cause the Router to disconnect from the Internet after five minutes of no Internet activity. This option should be used if you pay for your Internet service by the minute.

Setting your ISP Connection Type to Point-to-Point Tunneling Protocol (PPTP)

[European Countries Only]. Some ISPs require a connection using PPTP protocol, a type of connection most common in European countries. This sets up a direct connection to the ISP's system. Type in the information provided by your ISP in the space provided. When you have finished, click "Apply Changes". After you apply the changes, the Internet Status indicator will read "connection OK" if your Router is set up properly.



1. PPTP Account
Provided by your ISP. Enter your PPTP account name here.

2. PPTP Password
Type in your password and retype it into the "Retype Password" box to confirm it.

3. Host Name
Provided by your ISP. Enter your host name here.

4. Service IP Address
Provided by your ISP. Enter your service IP address here.

5. My IP Address
Provided by your ISP. Enter the IP address here.

6. My Subnet Mask
Provided by your ISP. Enter the IP address here.

7. Connection ID (optional)
Provided by your ISP. If your ISP did not give you a connection ID, leave this blank.

8. Disconnect after X....
The Disconnect feature is used to automatically disconnect the Router from your ISP when there is no activity for a specified period of time. For instance, placing a check mark next to this option and entering "5" into the minute field will cause the router to disconnect from the Internet after five minutes of no Internet activity. This option should be used if you pay for your Internet service by the minute.

Setting your Connection Type if you are a Telstra Big Pond User

[Australia Only] Your user name and password are provided to you by Telstra Big Pond. Enter this information below. Choosing your state from the drop-down menu **(6)** will automatically fill in your login server IP address. If your login server address is different than one provided here, you may manually enter the login server IP address by placing a check in the box next to "Manually Enter Server IP Address" **(4)** and type in the address next to "Login Server" **(5)**. When you have entered all of your information, click "Apply Changes" **(7)**. After you apply the changes, the Internet Status indicator will read "connection OK" if your Router is set up properly.

1. Select your state from the drop-down menu (6). The "Login Server" box will automatically be filled in with an IP address. If for some reason this address does not match the address that Telstra has given you, you can manually enter the login server address. See "Manually Enter Server IP Address" **(4)**.

2. User Name

Provided by your ISP. Type in your user name here.

3. Password

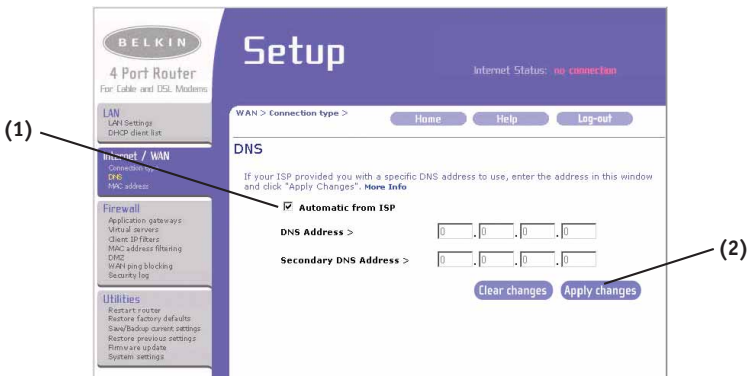
Type in your password and retype it into the "Retype Password" box to confirm it.

4. Manually Enter Server IP Address

If your login server IP address is not available in the "Select Your State" drop-down menu **(6)**, you may manually enter the login server IP address by placing a check in the box next to "Manually Enter Server IP Address" and type in the address next to "Login Server" **(5)**.

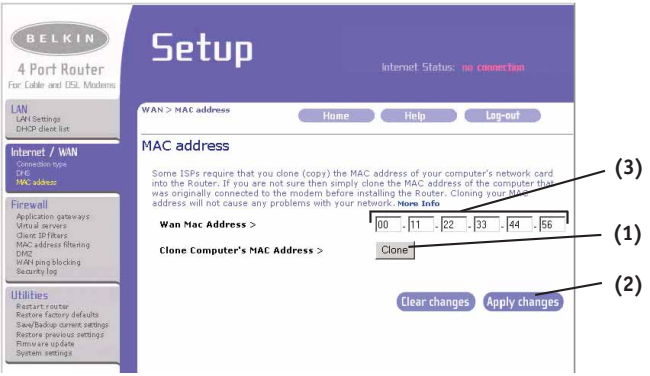
Setting Custom Domain Name Server (DNS) Settings

A "Domain Name Server" is a server located on the Internet that translates Universal Resource Links (URLs) like "www.belkin.com" to IP addresses. Many ISPs do not require you to enter this information into the Router. The "Automatic from ISP" box **(1)** should be checked if your ISP did not give you a specific DNS address. If you are using a static IP connection type, then you may need to enter a specific DNS address and secondary DNS address for your connection to work properly. If your connection type is dynamic or PPPoE, it is likely that you do not have to enter a DNS address. Leave the "Automatic from ISP" box checked. To enter the DNS address settings, uncheck the "Automatic from ISP" box and enter your DNS entries in the spaces provided. Click "Apply Changes" **(2)** to save the settings.



Configuring your WAN Media Access Controller (MAC) Address

All network components including cards, adapters, and routers, have a unique "serial number" called a MAC address. Your ISP may record the MAC address of your computer's adapter and only let that particular computer connect to the Internet service. When you install the Router, its own MAC address will be "seen" by the ISP and may cause the connection not to work. Belkin has provided the ability to clone (copy) the MAC address of the computer into the Router. This MAC address, in turn, will be seen by the ISP's system as the original MAC address and will allow the connection to work. If you are not sure whether your ISP needs to see the original MAC address, simply clone the MAC address of the computer that was originally connected to the modem. Cloning the address will not cause any problems with your network.



Cloning your MAC Address

To clone your MAC address, make sure that you are using the computer that was ORIGINALLY CONNECTED to your modem before the Router was installed. Click the "Clone" button **(1)**. Click "Apply Changes" **(2)**. Your MAC address is now cloned to the Router.

Entering a Specific MAC Address

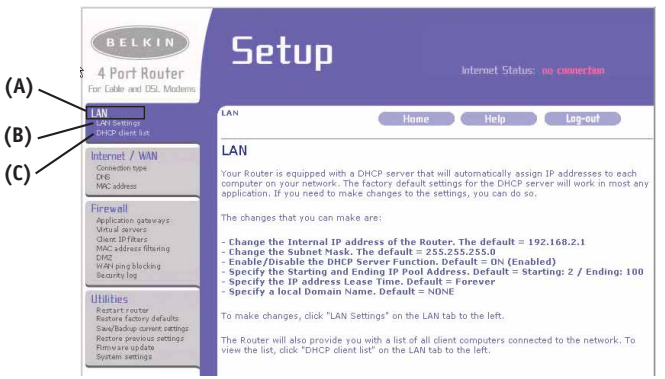
In certain circumstances you may need a specific WAN MAC address. You can manually enter one in the "MAC Address" page. Type in a MAC address in the spaces provided and click "Apply Changes" to save the changes. The Router's WAN MAC address will now be changed to the MAC address you specified.

Using the Web-Based Advanced User Interface

Using your Internet browser, you can access the Router's Web-Based Advanced User Interface. In your browser, type "192.168.2.1" (do not type in anything else such as "http://" or "www") then press the "Enter" key. You will see the Router's home page in your browser window.

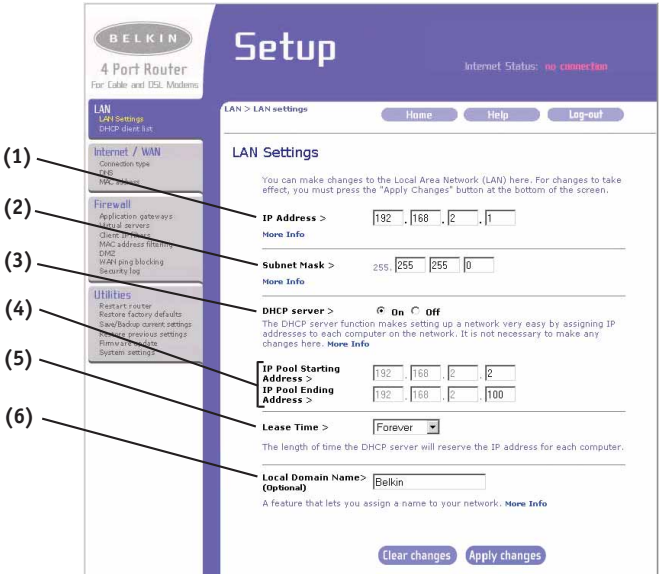
Viewing the LAN Settings

Clicking on the header of the LAN tab **(A)** will take you to the LAN tab's header page. A quick description of the functions can be found here. To view the settings or make changes to any of the LAN settings, click on "LAN Settings" **(B)** or to view the list of connected computers, click on "DHCP client list" **(C)**.



Changing LAN Settings

All settings for the internal LAN setup of the Router can be viewed and changed here.



1. IP Address

The "IP address" is the internal IP address of the Router. The default IP address is "192.168.2.1". To access the advanced setup interface, type this IP address into the address bar of your browser. This address can be changed if needed. To change the IP address, type in the new IP address and click "Apply Changes". The IP address you choose should be a non-routable IP. Examples of a non-routable IP are:

192.168.x.x (where x is anything between 0 and 255)
10.x.x.x (where x is anything between 0 and 255)

2. Subnet Mask

There is no need to change the subnet mask. This is a unique, advanced feature of your Belkin Router. It is possible to change the subnet mask if necessary, however, do NOT make changes to the subnet mask unless you have a specific reason to do so. The default setting is "255.255.255.0".

3. DHCP Server
The DHCP server function makes setting up a network very easy by assigning IP addresses to each computer on the network automatically. The default setting is "On". The DHCP server can be turned OFF if necessary, however, in order to do so you must manually set a static IP address for each computer on your network. To turn off the DHCP server, select "Off" and click "Apply Changes".

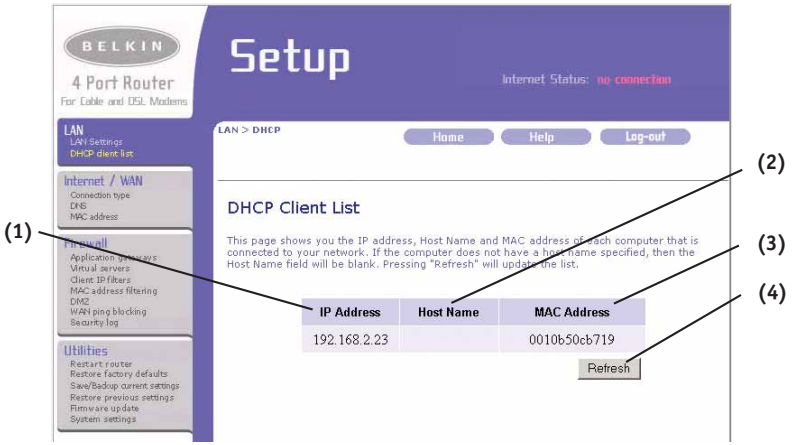
4. IP Pool
The range of IP addresses set aside for dynamic assignment to the computers on your network. The default is 2–100 (99 computers). If you want to change this number, you can do so by entering a new starting and ending IP address and clicking on "Apply Changes". The DHCP server can assign 100 IP addresses automatically. This means that you cannot specify an IP address pool larger than 100 computers. For example, starting at 50 means you have to end at 150 or lower so as not to exceed the 100-client limit. The starting IP address must be lower in number than the ending IP address.

5. Lease Time
The length of time the DHCP server will reserve the IP address for each computer. We recommend that you leave the lease time set to "Forever". The default setting is "Forever", meaning that any time a computer is assigned an IP address by the DHCP server, the IP address will not change for that particular computer. Setting lease times for shorter intervals such as one day or one hour frees IP addresses after the specified period of time. This also means that a particular computer's IP address may change over time. If you have set any of the other advanced features of the Router such as DMZ or client IP filters, these are dependent on the IP address. For this reason, you will not want the IP address to change.

6. Local Domain Name
The default setting is "Belkin". You can set a local domain name (network name) for your network. There is no need to change this setting unless you have a specific advanced need to do so. You can name the network anything you want such as "MY NETWORK".

Viewing the DHCP Client List Page

You can view a list of the computers (known as clients), which are connected to your network. You are able to view the IP address **(1)** of the computer, the host name **(2)** (if the computer has been assigned one), and the MAC address **(3)** of the computer's network interface card (NIC). Pressing the "Refresh" **(4)** button will update the list. If there have been any changes, the list will be updated.



Configuring the Firewall

Your Router is equipped with a firewall that will protect your network from a wide array of common hacker attacks including:

- IP Spoofing
- Land Attack
- Ping of Death (PoD)
- Denial of Service (DoS)
- IP with zero length
- Smurf Attack
- TCP Null Scan
- SYN flood
- UDP flooding
- Tear Drop Attack
- ICMP defect
- RIP defect
- Fragment flooding

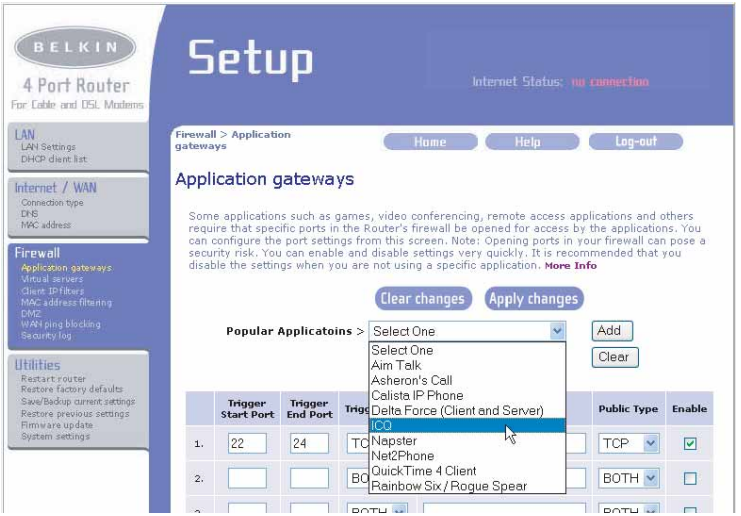
The firewall also masks common ports that are frequently used to attack networks. These ports appear to be “Stealth” meaning that for all intents and purposes, they do not exist to a would-be hacker. You can turn the firewall function off if needed, however, it is recommended that you leave the firewall enabled. Disabling the firewall protection will not leave your network completely vulnerable to hacker attacks, but it is recommended that you leave the firewall enabled.

Configuring the Port Forwarding Settings

Application gateways let you select ports to be open for certain applications to work properly with the Network Address Translation (NAT) feature of the Router. A list of popular applications has been included to choose from. You can select an application from the drop-down list and the proper settings will be programmed into the Router. If the application you want to set up for is not here, check the "Virtual Servers" page by clicking "Virtual Servers" on the left side of the screen. If you cannot find your application in either the "Application Gateways" screen or the "Virtual Servers" screen, you will need to check with the application vendor to determine which ports need to be configured. You can manually input this port information into the Router.

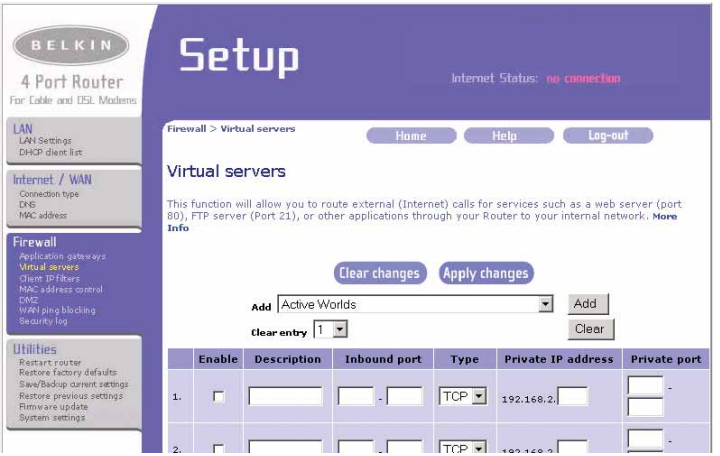
Choosing an Application

Select your application from the drop-down list. Click “Add”. The settings will be transferred to the next available space in the screen. Click “Apply Changes” to save the setting for that application. To remove an application, select the number of the row that you want to remove then click “Clear”. To remove an application, select the number of the row that you want to remove then click “Clear”.



Configuring Internal Forwarding Settings

The Virtual Servers function will allow you to route external (Internet) calls for services such as a web server (port 80), FTP server (Port 21), or other applications through your Router to your internal network. Since your internal computers are protected by a firewall, computers outside your network (over the Internet) cannot get to them because they cannot be "seen". A list of common applications has been provided in case you need to configure the Virtual Server function for a specific application. If your application is not listed, you will need to contact the application vendor to find out which port settings you need.



Choosing an Application

Select your application from the drop-down list. Click "Add". The settings will be transferred to the next available space in the screen. Click "Apply Changes" to save the setting for that application. To remove an application, select the number of the row that you want to remove then click "Clear".

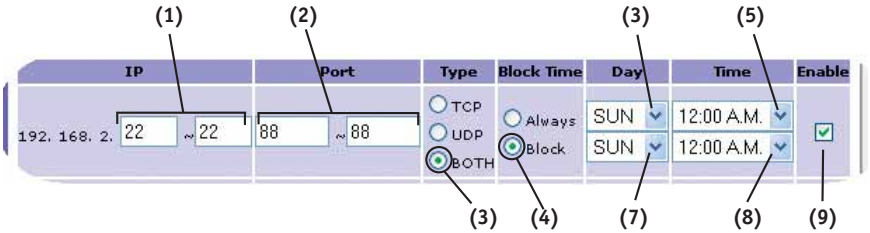
Manually Entering Settings into the Virtual Server

To manually enter settings, enter the IP address in the space provided for the internal (server) machine, the port(s) required to pass (use a comma between multiple ports), select the port type (TCP or UDP), and click "Apply Changes". You can only pass one port per internal IP address. Opening ports in your firewall can pose a security risk. You can enable and disable settings very quickly. It is recommended that you disable the settings when you are not using a specific application.

Setting Client IP Filters

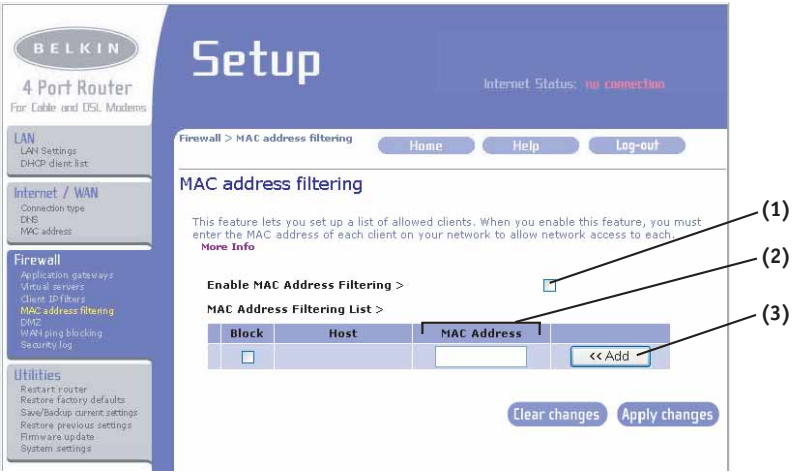
The Router can be configured to restrict access to the Internet, e-mail, or other network services at specific days and times. Restriction can be set for a single computer, a range of computers, or multiple computers.

To restrict Internet access to a single computer for example, enter the IP address of the computer you wish to restrict access to in the IP fields **(1)**. Next, enter "88" in both the port fields **(2)**. Select "Both" **(3)**. Select "Block" **(4)**. You can also select "Always" to block access all of the time. Select the day to start on top **(5)**, the time to start on top **(6)**, the day to end on the bottom **(7)**, and the time to stop **(8)** on the bottom. Select "Enable" **(9)**. Click "Apply Changes". The computer at the IP address you specified will now be blocked from Internet access at the times you specified. Note: Be sure you have selected the correct time zone under "Utilities> System Settings> Time Zone".



Setting MAC Address Filtering

The MAC address filter is a powerful security feature that allows you to specify which computers are allowed on the network. Any computer attempting to access the network that is not specified in the filter list will be denied access. When you enable this feature, you must enter the MAC address of each client (computer) on your network to allow network access to each. The "Block" feature lets you turn on and off access to the network easily for any computer without having to add and remove the computer's MAC address from the list.

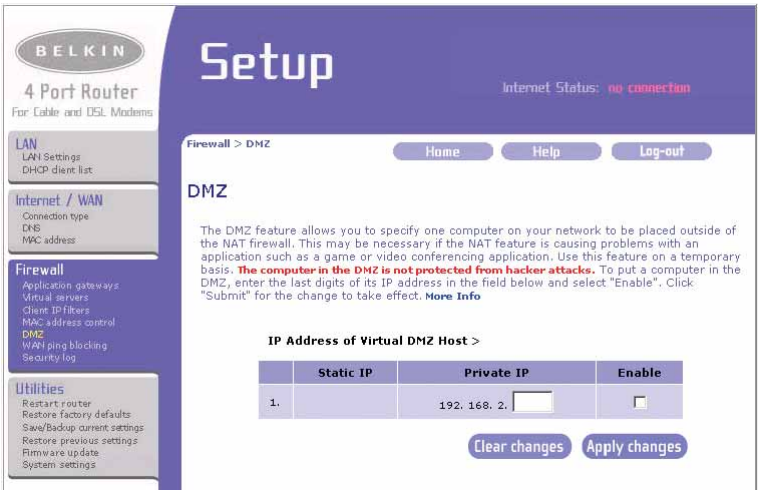


To enable this feature, select "Enable MAC Address Filtering" **(1)**. Next, enter the MAC address of each computer on your network by clicking in the space provided **(2)** and entering the MAC address of the computer you want to add to the list. Click "Add" **(3)**, then "Apply Changes" to save the settings. To delete a MAC address from the list, simply click "Delete" next to the MAC address you wish to delete. Click "Apply Changes" to save the settings.

NOTE: *You will not be able to delete the MAC address of the computer you are using to access the Router's administrative functions (the computer you are using now).*

Enabling the Demilitarized Zone (DMZ)

The DMZ feature allows you to specify one computer on your network to be placed outside of the firewall. This may be necessary if the firewall is causing problems with an application such as a game or video conferencing application. Use this feature on a temporary basis. The computer in the DMZ is NOT protected from hacker attacks.



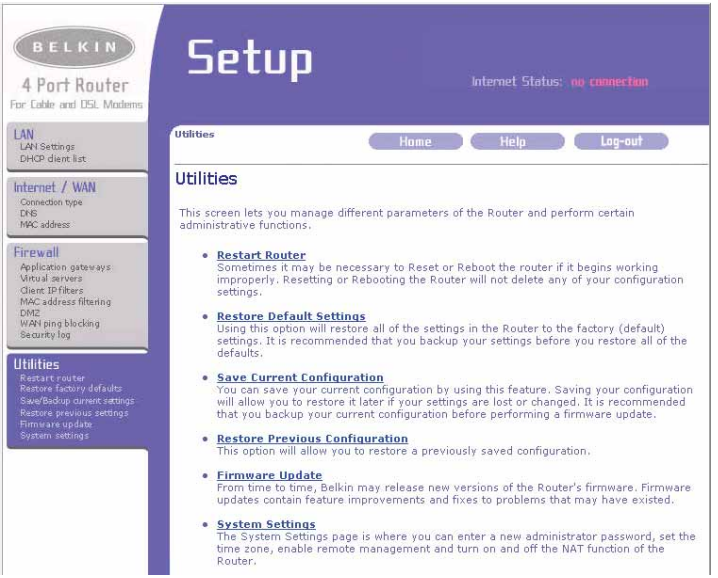
To put a computer in the DMZ, enter the last digits of its IP address in the IP field and select "Enable". Click "Apply Changes" for the change to take effect. If you are using multiple static WAN IP addresses, it is possible to select which WAN IP address the DMZ host will be directed to. Type in the WAN IP address you wish the DMZ host to direct to, enter the last two digits of the IP address of the DMZ host computer, select "Enable" and click "Apply Changes".

Blocking an ICMP Ping

Computer hackers use what is known as "pinging" to find potential victims on the Internet. By pinging a specific IP address and receiving a response from the IP address, a hacker can determine that something of interest might be there. The Router can be set up so it will not respond to an ICMP ping from the outside. This heightens the level of security of your Router.

To turn off the ping response, select "Block ICMP Ping" **(1)** and click "Apply Changes". The Router will not respond to an ICMP ping.

Utilities Tab



Utilities

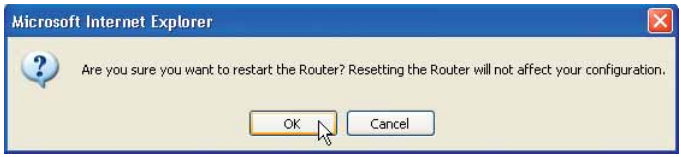
This screen lets you manage different parameters of the Router and perform certain administrative functions.

Restarting the Router

Sometimes it may be necessary to restart or reboot the Router if it begins working improperly. Restarting or rebooting the Router will NOT delete any of your configuration settings.

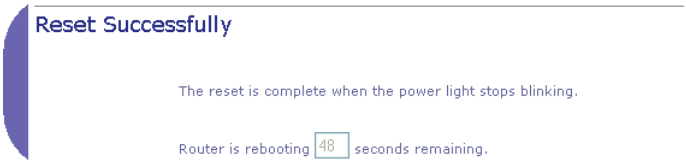
Restarting the Router to Restore Normal Operation

1. Click the "Restart Router" button.
2. The following message will appear. Click "OK".



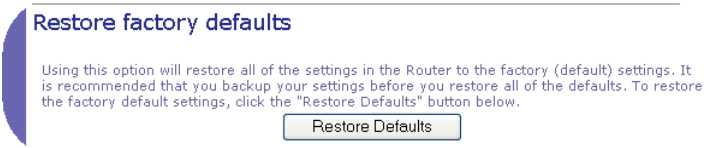
3. The following message will appear. Restarting the Router can take up to 60 seconds. It is important not to turn off the power to the Router during the restart.

4. A 60-second countdown will appear on the screen. When the countdown reaches zero, the Router will be restarted. The Router home page should appear automatically. If not, type in the Router's address (default = 192.168.2.1) into the navigation bar of your browser.



Restoring Factory Default Settings

Using this option will restore all of the settings in the Router to the factory (default) settings. It is recommended that you back up your settings before you restore all of the defaults.

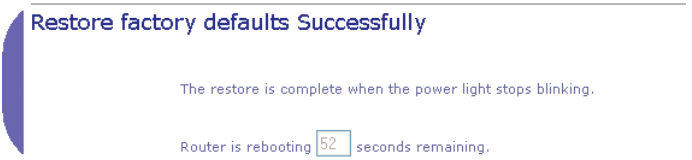


1. Click the "Restore Defaults" button.

2. The following message will appear. Click "OK".

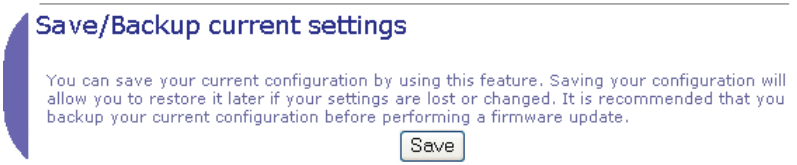
3. The following message will appear. Restoring the defaults includes restarting the Router. It can take up to 60 seconds. It is important not to turn the power to the Router off during the restart.

4. A 60-second countdown will appear on the screen. When the countdown reaches zero, the Router's defaults will be restored. The Router home page should appear automatically. If it does not, type in the Router's address (default = 192.168.2.1) into the navigation bar of your browser.

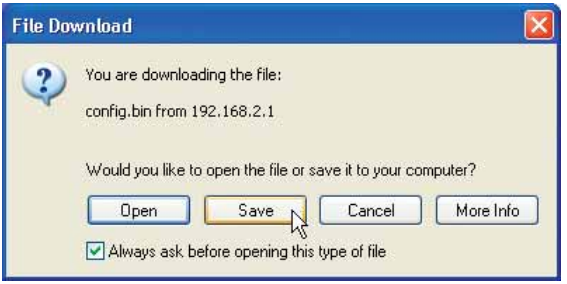


Saving a Current Configuration

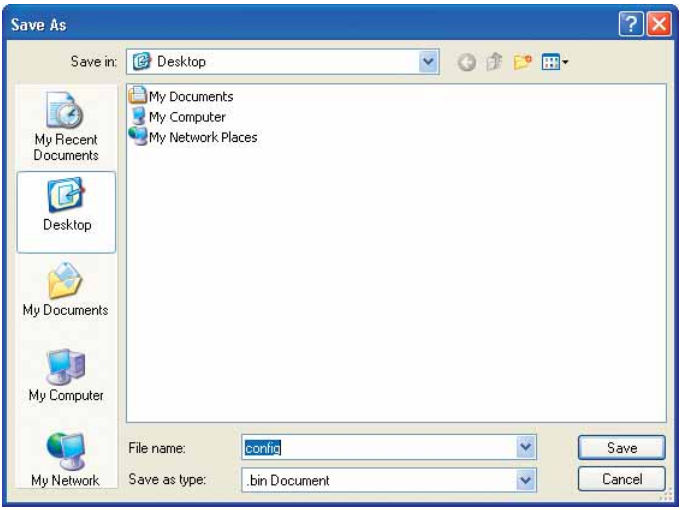
You can save your current configuration by using this feature. Saving your configuration will allow you to restore it later if your settings are lost or changed. It is recommended that you back up your current configuration before performing a firmware update.



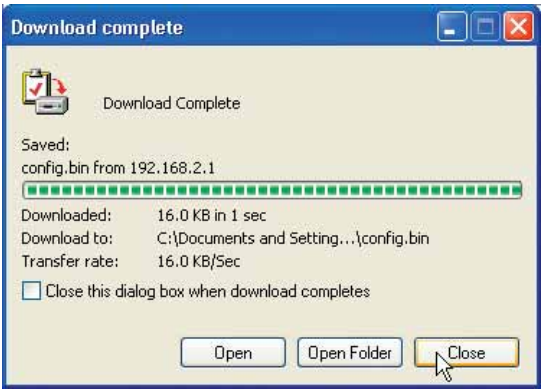
1. Click "Save". A window called "File Download" will open. Click "Save".



2. A window will open that allows you to select the location where you want to save the configuration file. Select a location. You can name the file anything you want, or use the default name "Config". Be sure to name the file so you can locate it yourself later. When you have selected the location and name of the file, click "Save".



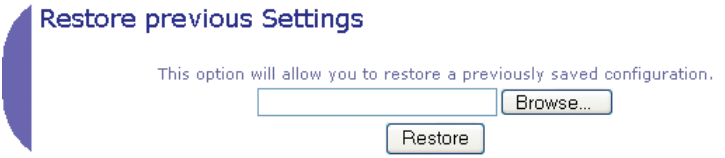
3. When the save is complete, you will see the window below. Click "Close".



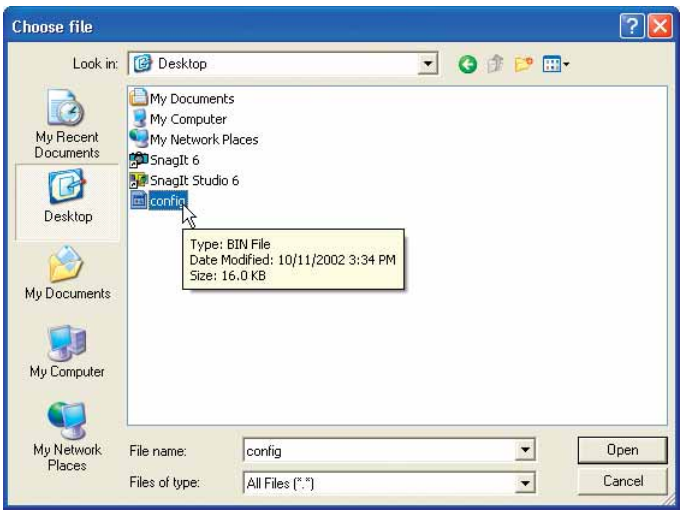
The configuration is now saved.

Restoring a Previous Configuration

This option will allow you to restore a previously saved configuration.



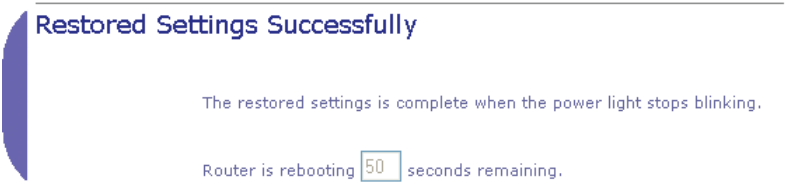
1. Click "Browse". A window will open that allows you to select the location of the configuration file. All configuration files end with a ".bin". Locate the configuration file you want to restore and double-click on it.



2. You will be asked if you want to continue. Click "OK".

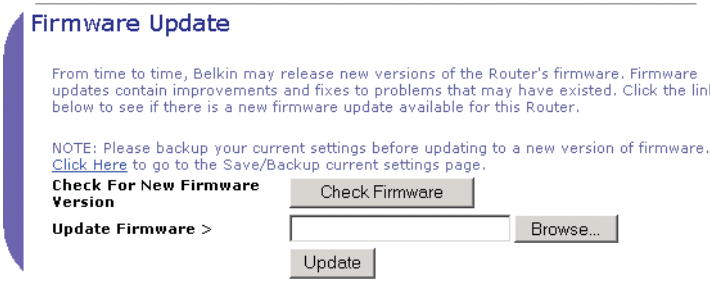
3. A reminder window will appear. It will take up to 60 seconds for the configuration restoration to complete. Click "OK".

4. A 60-second countdown will appear on the screen. When the countdown reaches zero, the Router's configuration will be restored. The Router home page should appear automatically. If not, type in the Router's address (default = 192.168.2.1) into the navigation bar of your browser.



Updating Firmware

From time to time, Belkin may release new versions of the Router's firmware. Firmware updates contain feature improvements and fixes to problems that may have existed. When Belkin releases new firmware, you can download the firmware from the Belkin update website and update your Router's firmware to the latest version.



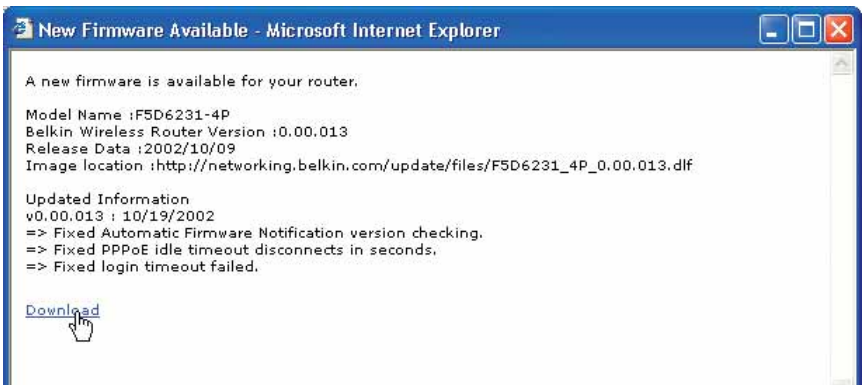
Checking for a New Version of Firmware

The "Check Firmware" (1) button allows you to instantly check for a new version of firmware. When you click the button, a new browser window will appear informing you that either no new firmware is available or that there is a new version available. If a new version is available, you will have the option to download it.

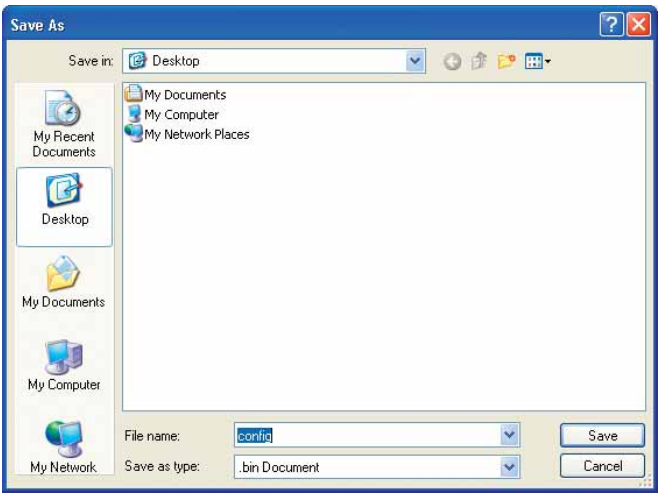
Downloading a New Version of Firmware

If you click the "Check Firmware" button and a new version of firmware is available, you will see a screen such as the following.

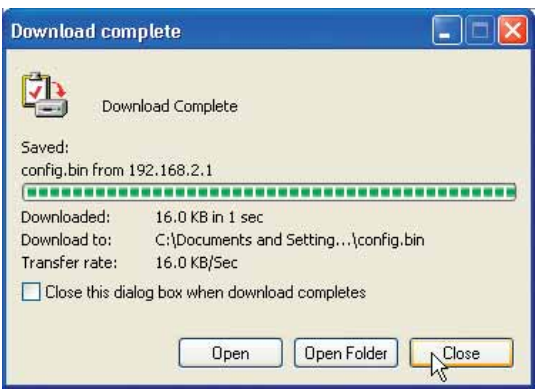
1. To download the new version of firmware, click "Download".



2. A window will open that allows you to select the location where you want to save the firmware file. Select a location. You can name the file anything you want, or use the default name. Be sure to locate the file in a place where you can locate it yourselfater. When you have selected the location, click "Save".



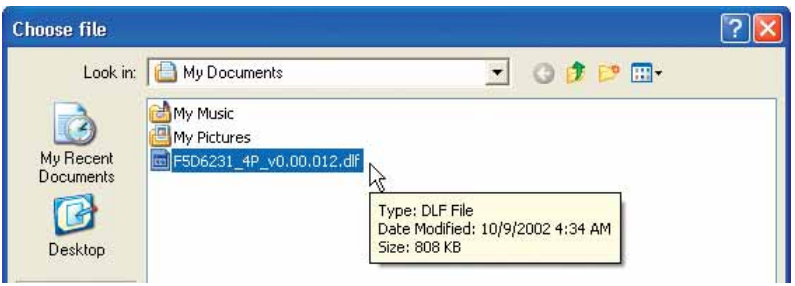
3. When the save is complete, you will see the following window. Click "Close".



The download of the firmware is complete. To update the firmware, follow the next steps in "Updating the Router's Firmware".

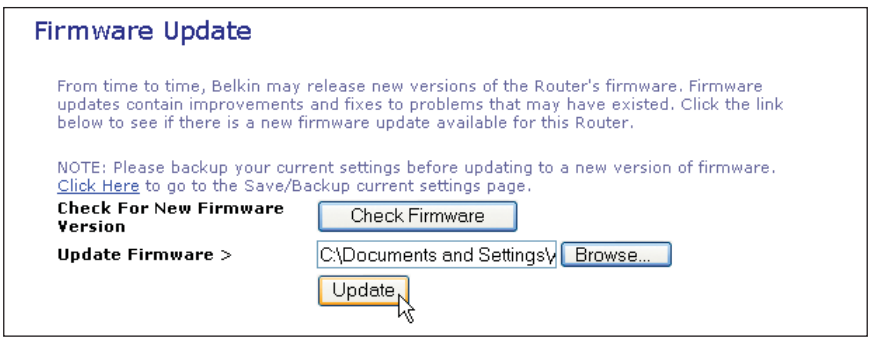
Updating the Router's Firmware

1. In the "Firmware Update" page, click "Browse" (2). A window will open that allows you to select the location of the firmware update file. All firmware files end with a ".dlf".



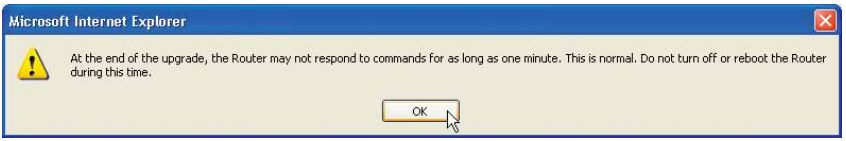
2. Browse to the firmware file you downloaded. Select the file by double-clicking on the file name.

3. The "Update Firmware" box will now display the location and name of the firmware file you just selected. Click "Update".

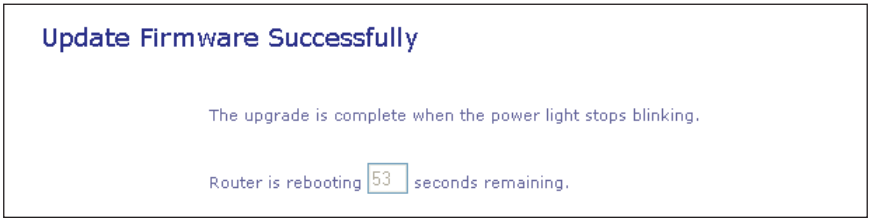


4. You will be asked if you are sure you want to continue. Click "OK".

5. You will see one more message. This message tells you that the Router may not respond for as long as one minute as the firmware is loaded into the Router and the Router is rebooted. Click "OK".



6. A 60-second countdown will appear on the screen. When the countdown reaches zero, the Router firmware update will be complete. The Router home page should appear automatically. If not, type in the Router's address (default = 192.168.2.1) into the navigation bar of your browser.



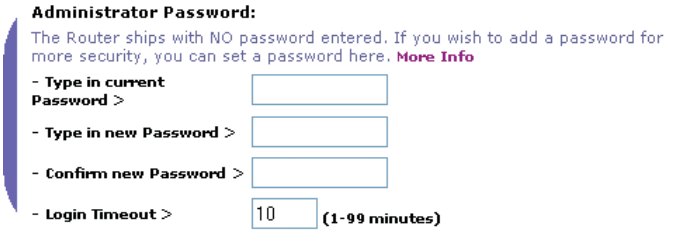
The firmware update is complete.

Changing System Settings

The "System Settings" page is where you can enter a new administrator password, set the time zone, enable remote management, and turn on and off the NAT function of the Router.

Setting or Changing the Administrator Password

The Router ships with NO password entered. If you wish to add a password for greater security, you can set a password here. Write down your password and keep it in a safe place, as you will need it if you need to log into the Router in the future. It is also recommended that you set a password if you plan to use the remote management feature of your Router.

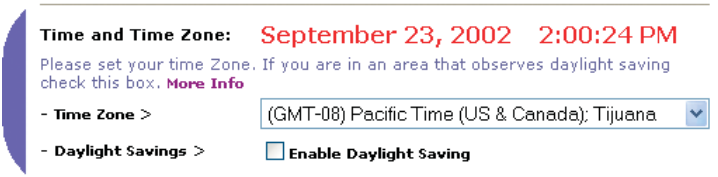


Changing the Login Timeout Setting

The login timeout option allows you to set the period of time that you can be logged into the Router's advanced setup interface. The timer starts when there has been no activity. For example, you have made some changes in the advanced setup interface, then left your computer alone without clicking "Logout". Assuming the timeout is set to 10 minutes, then 10 minutes after you leave, the login session will expire. You will have to login to the Router again to make any more changes. The login timeout option is for security purposes and the default is set to 10 minutes. ***NOTE:*** *Only one computer can be logged into the Router's advanced setup interface at one time.*

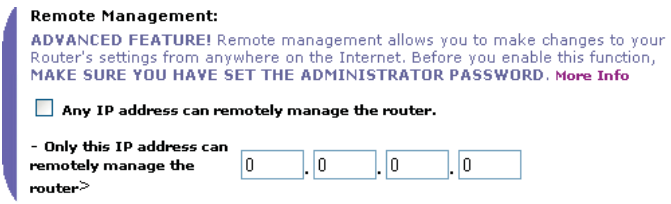
Setting the Time and Time Zone

The Router keeps time by connecting to a Simple Network Time Protocol (SNTP) server. This allows the Router to synchronize the system clock to the global Internet. The synchronized clock in the Router is used to record the security log and control client filtering. Select the time zone that you reside in. If you reside in an area that observes Daylight Saving, then place a check mark in the box next to "Enable Daylight Saving". The system clock may not update immediately. Allow at least 15 minutes for the Router to contact the time servers on the Internet and get a response. You cannot set the clock yourself.



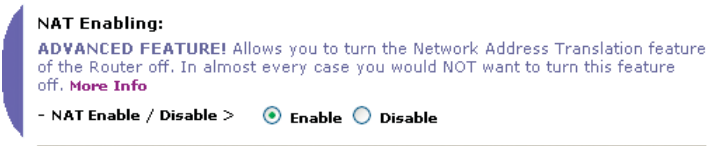
Enabling Remote Management

Before you enable this advanced feature of your Belkin Router, **MAKE SURE YOU HAVE SET THE ADMINISTRATOR PASSWORD**. Remote management allows you to make changes to your Router's settings from anywhere on the Internet. There are two methods of remotely managing the Router. The first is to allow access to the Router from anywhere on the Internet by selecting "Any IP address can remotely manage the Router". By typing in your WAN IP address from any computer on the Internet, you will be presented with a login screen where you need to type in the password of your Router. The second method is to allow a specific IP address only to remotely manage the Router. This is more secure, but less convenient. To use this method, enter the IP address you know you will be accessing the Router from in the space provided and select "Only this IP address can remotely manage the Router". Before you enable this function, it is STRONGLY RECOMMENDED that you set your administrator password. Leaving the password empty will potentially open your Router to intrusion.



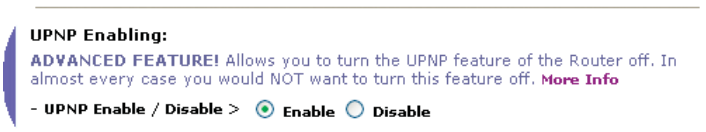
Enabling/Disabling NAT (Network Address Translation)

NOTE: *This advanced feature should be employed by advanced users only.* Network Address Translation (NAT) is the method by which the Router shares the single IP address assigned by your ISP with the other computers on your network. This function should only be used if your ISP assigns you multiple IP addresses or you need NAT disabled for an advanced system configuration. If you have a single IP address and you turn NAT off, the computers on your network will not be able to access the Internet. Other problems may also occur. Turning off NAT will not affect your firewall functions.



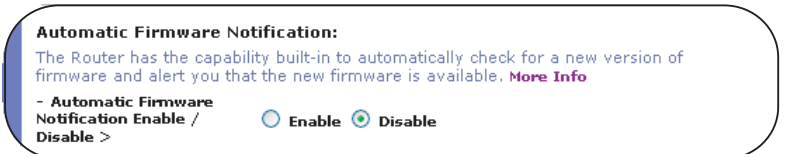
Enabling/Disabling UPnP

UPnP (Universal Plug-and-Play) is yet another advanced feature offered by your Belkin Router. It is a technology that offers seamless operation of voice messaging, video messaging, games, and other applications that are UPnP-compliant. Some applications require the Router's firewall to be configured in a specific way to operate properly. This usually requires opening TCP and UDP ports, and in some instances, setting trigger ports. An application that is UPnP-compliant has the ability to communicate with the Router, basically "telling" the Router which way it needs the firewall configured. The Router ships with the UPnP feature disabled. If you are using any applications that are UPnP-compliant, and wish to take advantage of the UPnP features, you can enable the UPnP feature. Simply select "Enable" in the "UPnP Enabling" section of the "Utilities" page. Click "Apply Changes" to save the change.



Enabling/Disabling Auto Firmware Notification

This innovation provides the Router with the built-in capability to automatically check for a new version of firmware and alert you that the new firmware is available. When you log into the Router's advanced interface, the Router will perform a check to see if new firmware is available. If so, you will be notified. You can choose to download the new version or ignore it. The Router ships with this feature disabled. If you want to enable it, select "Enable" and click "Apply Changes".



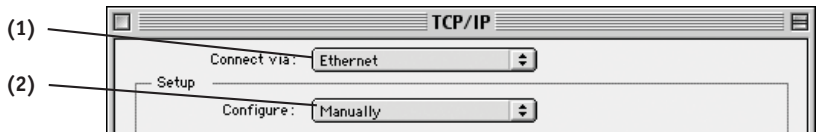
Manually Configuring Network Settings

Set up the computer that is connected to the cable or DSL modem FIRST using these steps. You can also use these steps to add computers to your Router after the Router has been set up to connect to the Internet.

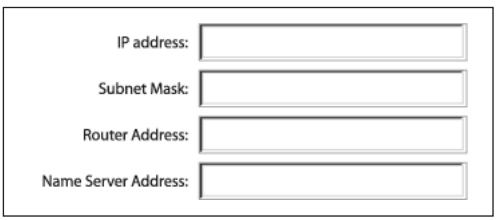
Manually Configuring Network Settings in Mac OS up to 9.x

1. Pull down the Apple menu. Select "Control Panels" and select "TCP/IP".

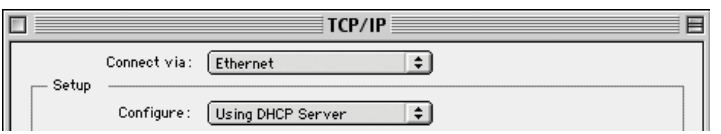
2. You will see the TCP/IP control panel. Select "Ethernet Built-In" or "Ethernet" in the "Connect via:" drop-down menu **(1)**.



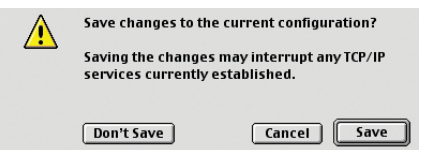
3. Next to "Configure" **(2)**, if "Manually" is selected, your Router will need to be set up for a static IP connection type. Write the address information in the table below. You will need to enter this information into the Router.



4. If not already set, at "Configure:", choose "Using DHCP Server". This will tell the computer to obtain an IP address from the Router.



5. Close the window. If you made any changes, the following window will appear. Click "Save".

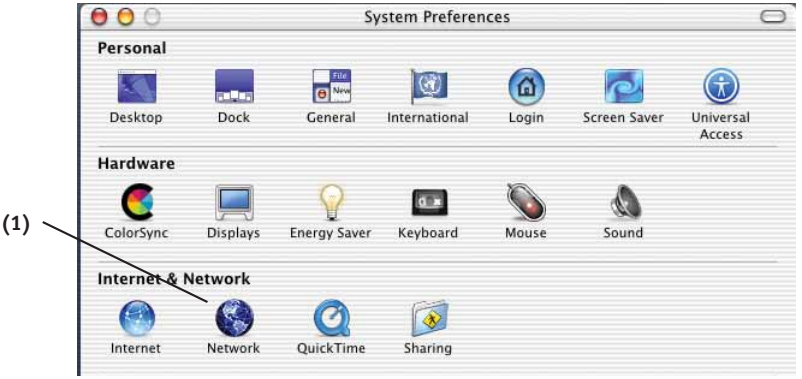


Restart the computer. When the computer restarts, your network settings are now configured for use with the Router.

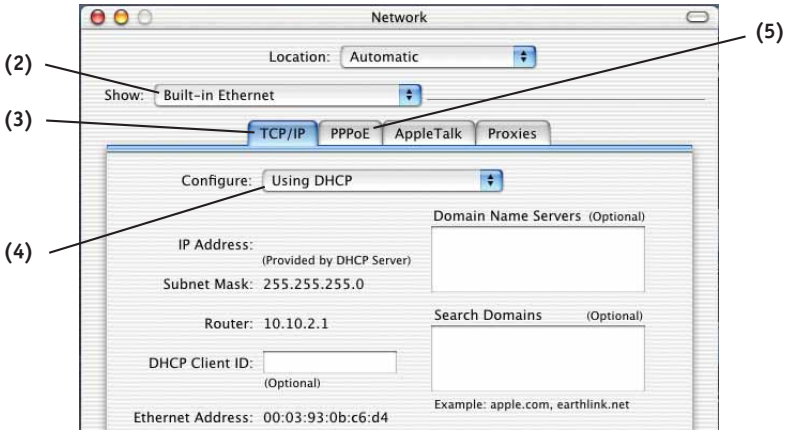
Manually Configuring Network Settings in Mac OS X

1. Click on the "System Preferences" icon.

2. Select "Network" **(1)** from the "System Preferences" menu.

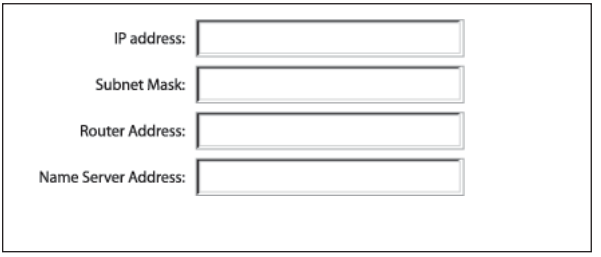


3. Select "Built-in Ethernet" **(2)** next to "Show in the Network menu.



4. Select the "TCP/IP" tab **(3)**. Next to "Configure" **(4)**, you should see "Manually" or "Using DHCP". If you do not, check the PPPoE tab **(5)** to make sure that "Connect using PPPoE" is NOT selected. If it is, you will need to configure your Router for a PPPoE connection type using your user name and password.

5. If "Manually" is selected, your Router will need to be set up for a static IP connection type. Write the address information in the table below. You will need to enter this information into the Router.

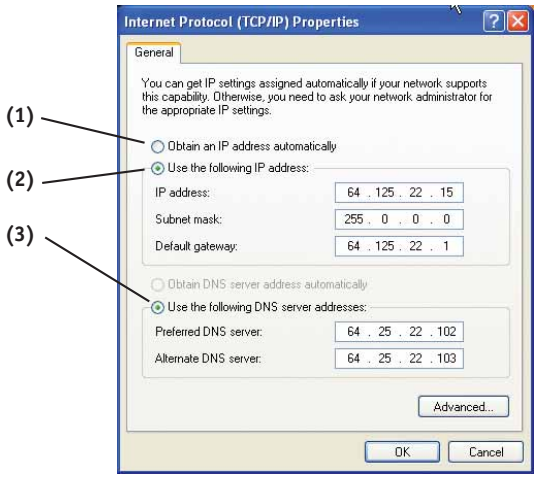


6. If not already selected, select "Using DHCP" next to "Configure" **(4)**, then click "Apply Now".

Your network settings are now configured for use with the Router.

Manually Configuring Network Settings in Windows 2000, NT, or XP

1. Click "Start", "Settings", then "Control Panel".
2. Double-click on the "Network and dial-up connections" icon (Windows 2000) or the "Network" icon (Windows XP).
3. Right-click on the "Local Area Connection" associated with your network adapter and select "Properties" from the drop-down menu.
4. In the "Local Area Connection Properties" window, click "Internet Protocol (TCP/IP)" and click the "Properties" button. The following screen will appear:



5. If "Use the following IP address" **(2)** is selected, your Router will need to be set up for a static IP connection type. Write the address information the table below. You will need to enter this information into the Router.

IP address:	
Subnet Mask:	
Default gateway:	
Preferred DNS server:	
Alternate DNS server:	

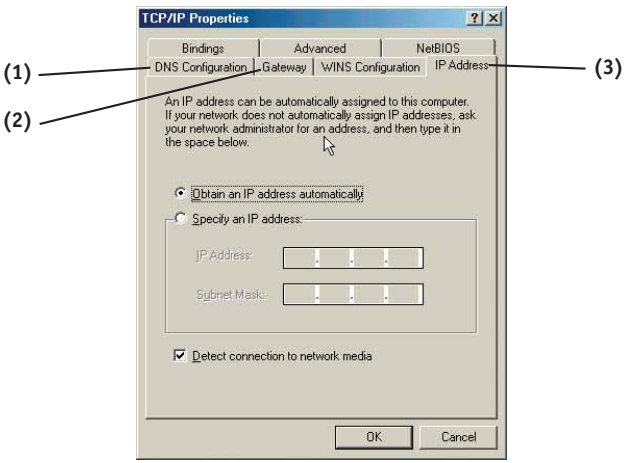
6. If not already selected, select "Obtain an IP address automatically" **(1)** and "Obtain DNS server address automatically" **(3)**. Click "OK".

Your network settings are now configured for use with the Router.

Configuring Network Settings in Windows 98 or Me

1. Right-click on "My Network Neighborhood" and select "Properties" from the drop-down menu.

2. Select "TCP/IP settings" for your installed network adapter. You will see this window.



3. If "Specify and IP address" is selected, your Router will need to be set up for a static IP connection type. Write the address information in the table below. You will need to enter this information into the Router.

4. Write the IP address and subnet mask from the "IP Address" tab **(3)**.

5. Click the "Gateway" tab **(2)**. Write the gateway address down in the chart.

6. Click the "DNS Configuration" tab **(1)**. Write the DNS address(es) in the chart.

IP address:	
Subnet Mask:	
Default gateway:	
Preferred DNS server:	
Alternate DNS server:	

7. If not already selected, select "Obtain IP address automatically" on the IP address tab. Click "OK".

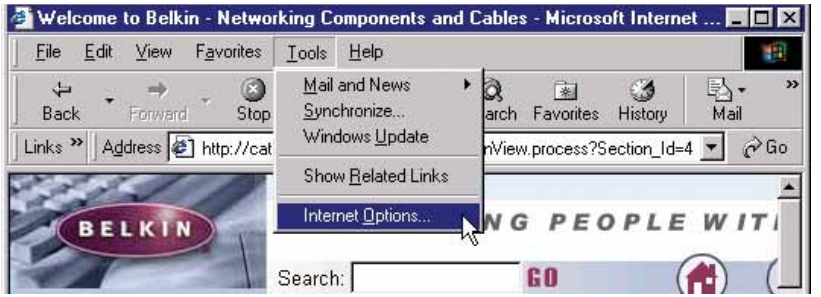
Restart the computer. After restarting, your network settings are now configured for use with the Router.

Recommended Web Browser Settings

In most cases, you will not need to make any changes to your web browser's settings. If you are having trouble accessing the Internet or the advanced web-based user interface, then change your browser's settings to the recommended settings in this section.

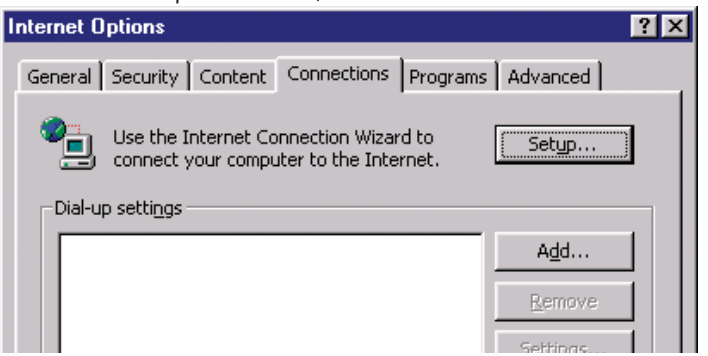
Internet Explorer 4.0 or Higher

1. Start your web browser. Select "Tools" then "Internet Options".



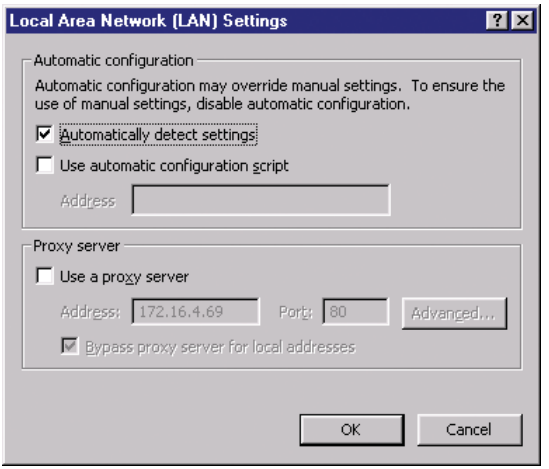
2. In the "Internet Options" screen, there are three selections: "Never dial a connection", "Dial whenever a network connection is not present", and "Always dial my default connection". If you can make a selection, select "Never dial a connection". If you cannot make a selection, go to the next step.

3. Under the "Internet Options" screen, click on "Connections" and select



"LAN Settings…".

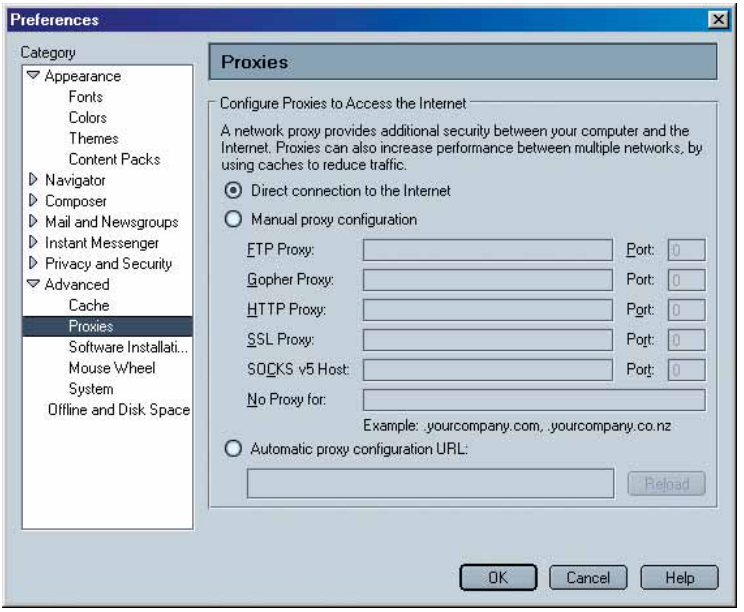
4. Make sure there are no check marks next to any of the displayed options: "Automatically detect settings", "Use automatic configuration script", and "Use a proxy server". Click "OK". Then click "OK" again in the "Internet Options" page.



Netscape Navigator 4.0 or Higher

1. Start Netscape. Click on "Edit" then "Preferences".

2. In the "Preferences" window, click on "Advanced" then select "Proxies". In the "Proxies" window, select "Direct connection to the Internet".



TROUBLESHOOTING

You can find technical support information at www.networking.belkin.com or www.belkin.com through the tech support area. If you want to contact technical support by phone, please call 800-223-5546. Technical support is available 24-hours-a-day, 7-days-a-week.

The Easy Install Wizard is not able to connect my Router to the Internet.

- The software must be run from the computer that is connected to the modem. The Internet connection must be active and working at the time of installation. Connect your computer back to the modem and make sure the Internet connection is working. Once you have verified that the Internet connection is working, run the Easy Install Wizard again.
- If your ISP requires a user name and password, make sure that you have typed in your user name and password correctly. Some user names require that the ISP's domain be at the end of the name. Example "myname@myisp.com". The "@myisp.com" part of the user name may need to be typed as well as your user name.
- Make sure that the modem is ON. Check the wall adapter and the power connection at the modem. Some modems have a power switch. Make sure the power switch is in the ON position.

The Easy Install Wizard is not able to find my Router.

- Make sure that the Router is ON. The Power/Ready light will be on GREEN and SOLID. Check the power supply connection at the wall and the Router.
- Make sure that the LAN link light that corresponds to the port you connected to the computer is ON. Check the network cable going from the computer to the Router.
- If the Easy Install Wizard told you that it detected multiple network adapters, run the Easy Install Wizard again and try a different adapter.

The WAN link LED is not on or I cannot connect to the cable or DSL modem.

- Check the connection between the Router and the cable or DSL modem. Make sure the network cable from the cable or DSL modem is connected to the port on the Router labeled "Internet/WAN".
- Make sure the cable or DSL modem is powered and switched on.
- Make sure the Router has power. The Power/Ready LED should be illuminated.
- Make sure the cable between the modem and the Router is the cable that was provided with the modem.

My connection type is "static IP address". I cannot connect to the Internet.

- Since your connection type is "static IP address", your ISP must assign you the IP address, subnet mask, and gateway address. Make sure that the Router's connection type is configured as "Static IP Address" and verify your settings.
- Your ISP may bind your connection to the MAC address of your computer's NIC. Clone your MAC address.

My connection type is "dynamic IP address". I cannot connect to the Internet.

- Make sure your computers are correctly configured and all network cables are properly connected.
- Make sure the cable or DSL line is properly attached on your cable or DSL modem. Refer to the manual of your modem to verify that it works normally.
- Make sure the network cable between the modem and the barricade is well connected. Power off the modem; wait a few seconds and then power it on again.
- Your ISP may bind your connection to the MAC address of your computer's NIC. Clone your MAC address.

My connection type is "PPPoE". I cannot connect to the Internet.

- Since your connection type is PPPoE, your ISP will assign you a user name and password and sometimes a service name. Make sure the Router connection type is configured as "PPPoE" and these settings are entered properly.
- Make sure your computers are correctly configured and all network cables are properly connected.
- Make sure the coaxial cable or DSL line is properly attached on your cable or DSL modem. Refer to the manual of your modem to verify it works normally.
- Make sure the network cable between the modem and the Router is well connected. Power off the modem for a few seconds and power on it again.
- Your ISP may bind your connection to the MAC address of your computer's NIC. Clone your MAC address.

FCC Statement

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin Corporation, of 501 West Walnut Street, Compton, CA 90220, declare under our sole responsibility that the product,

F5D5231-4

to which this declaration relates,
complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE Declaration of Conformity

We, Belkin Corporation, declare under our sole responsibility that the product F1U400, to which this declaration relates, is in conformity with Emissions Standard EN55022 and Immunity Standard EN55024, and LVD EN61000-3-2 and EN61000-3-3.

ICES

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme á la norme NMB-003 du Canada.

Belkin Components Limited Lifetime Product Warranty

Belkin Components warrants this product against defects in materials and workmanship for its lifetime. If a defect is discovered, Belkin will, at its option, repair or replace the product at no charge provided it is returned during the warranty period, with transportation charges prepaid, to the authorized Belkin dealer from whom you purchased the product. Proof of purchase may be required.

This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication; if the product has been modified without the written permission of Belkin; or if any Belkin serial number has been removed or defaced.

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