



EMERALD CITY COMPUTER SOLUTIONS, INC.

## Setting up Router with Cable modem

	<b>Setting up a Linksys Router with a Cable Modem and a Dynamic IP Address</b>
	<b>Question</b>
	How do I setup my Cable modem with my Linksys Router?
	<b>Answer</b>
	<p>This article will explain how to Configure the Router with a Cable provider that uses dynamic IP addresses, please follow the instructions below:</p> <p><b><u>Connecting the Router and the Modem</u></b></p> <ol style="list-style-type: none"><li>1. Connect the Broadband modem to the computer using an Ethernet cable <b>without</b> the router installed and make sure that the Internet connection is active. If it is not, contact your Internet Service Provider.</li><li>2. Shut down the computer, and unplug the power cables to both the router and the Broadband modem.</li><li>3. Disconnect the Ethernet cable from the computer and plug it into the <b>Internet</b> or <b>WAN</b> port of the router.</li><li>4. Take the Ethernet cable that came with the router (or any another available cable) and connect it to the computer. Then, take the other end of that same cable and connect it to Port <b>2</b> on the back of the router.</li><li>5. Plug in the Broadband modem's power cable and wait for all of its lights to stop blinking.</li><li>6. After the lights on the Broadband modem stop blinking, plug in the router's power cable.</li><li>7. Start up the computer.</li></ol> <p><b><u>Obtaining the PC's MAC Address</u></b></p> <p><i>Windows 98SE/ME</i></p> <ol style="list-style-type: none"><li>1. Click on the <b>Start</b> menu, then click on the <b>Run</b> option.</li><li>2. When the "Run" window opens, input <b>winiipcfg</b> into the "Open" field, then click on the <b>OK</b> button.</li><li>3. The "IP Configuration" window should appear, select the Ethernet Adapter that the PC is using from the drop down list.</li><li>4. Make note of the "Adapter Address" which is the MAC Address.</li></ol> <p><i>Windows XP/2000</i></p>

1. Click on the **Start** menu, then click on the **Run** option.
2. When the "Run" window opens, input **cmd** into the "Open" field, then click on the **OK** button.
3. When the "MS DOS Prompt" appears, input **ipconfig /all** then click on the **[Enter]** key.
4. Make note of the "Physical Address" of the Ethernet Adapter (normally "Local Area Connection").

### **Accessing the Setup Page**

1. Open a web browser such as **Internet Explorer** or **Netscape**.
2. When the browser window opens, go to the Address bar and type in the router's **IP Address** and click on the **Go** button (192.168.1.1 is the default IP address of Linksys Routers).
3. A window will appear prompting for a "User Name" and a "Password". Leave the "User Name" field blank, and type in the router's password and click on the **OK** button to login (**admin** is the default password).
4. The router's web-based "Setup" utility should then load.

### **Cloning the MAC Address**

The steps for configuring the MAC Address Cloning feature of a Linksys router vary depending on the firmware version the router is currently using.

From the router's "Setup" page, locate the *Linksys* logo in the upper left-hand corner of the page. Follow the instructions below depending on which logo matches your specific screen:



***If the logo matches the image above ("Linksys - A Division of Cisco Systems, Inc."), follow these steps. If not, skip to the next logo version.***

1. From the "Setup" page, click on the **MAC Address Clone** sub-tab.
2. In the "MAC Clone" section, set the option to **Enable**.
3. Click on the **Clone Your PC's MAC** button. Once this is done, the "User Defined Entry" will show MAC Address of the Ethernet Adapter of the computer you are using. Verify this address with the "Adapter Address" or "Physical Address" observed in earlier steps.
4. Click on the **Save Settings** button. Then, click the **Continue** button if prompted.



***If the logo matches the image above ("Linksys"), follow these***

**steps:**

1. From the "Setup" page, click on the **Advanced** tab.
2. When the "Filters" page loads, click on the **MAC Addr. Clone** tab.
3. When the "MAC Address Clone" page loads, enter the the "Adapter Address" or "Physical Address" that was observed in earlier steps.
  
4. Click on the **Apply** button. Then, click the **Continue** button if prompted.

**Power Cycling**

1. Shut down the computer.
2. Unplug the router's power cable.
3. Unplug the Broadband modem's power cable.
4. Wait for 30 seconds.
5. Plug in the Broadband modem's power cable and wait for its lights to stop blinking.
6. Plug in the router's power cable once the modem's lights stop blinking.
7. Finally, start up the computer and test the Internet connection.