

# Mt. Olive Public Library

## Wireless Internet Access

### Introduction

The Mt. Olive Public Library has deployed wireless network services based on the IEEE 802.11b and IEEE 802.11g specifications. Wireless network access is a means of accessing the Internet without connecting to a port using an Ethernet cable. Instead, users must have a wireless network card installed in their laptop computer.

### Wireless Access Coverage Area

Wireless Access is available in the Mt. Olive Public Library – Wireless Access Points have been installed near the circulation desk and in the Adult and Children Reading Rooms.

### Hardware Requirements

To establish a wireless connection, you need to have a laptop computer with an industry standard Wi-Fi compliant 802.11b or 802.11g wireless card installed in your laptop. Some computers are now coming with wireless capability built-in, in this case you don't need a separate adapter card. Wireless network cards should be installed according to manufacturers' instructions. All wireless cards come with drivers and their own software.

There are many brands of wireless adapters. It must support the 802.11b or 802.11g standard and it should have the 'WiFi' logo. There are many types available and some are much less expensive. As long as they are 'WiFi' compatible they should work. The potential downside is that they may not access the network at as high a speed and may not be able to take full advantage of all the performance features that may be available.

### Configure Wireless Card

This is the most difficult part of configuring a wireless card. Not because it is a difficult process, but each card manufacturer does things differently. Since there are multiple manufacturers out there it would be impossible to describe each manufacturer's setup.

Thus, we will point out the settings you will need that are specific to the Mt. Olive Public Library. Your card may have a configuration utility that will make the setup process simple or you may have to place the settings in the properties of your wireless network card under the network control panel. You will need to determine this from your card manufacturer.

Profile Name - replace Default with "**MOPL**"

Network Type - select "**Access Point**" or "**Infrastructure**"

Network Name or SSID - "**MOPL**"

Settings are case sensitive in most instances

Check with your documentation to determine any special requirements for your card.

### Configure Your Laptop

You may need to install the TCP/IP protocol if it's not already installed. If you already have it installed you should make sure it is configured obtain an IP Address automatically.

### Add TCP/IP:

If you have **Windows 2000 or XP**, TCP/IP is automatically installed with your network adapter. Skip to **Configure TCP/IP For Windows 2000** or **Configure TCP/IP for Windows XP**.

1. Go to the **Network Control Panel**:  
**Windows 95/98:** Right-click **Network Neighborhood**  
**Windows Me:** Right-click **My Network Places**  
Click **Properties**

2. Check to see if your network adapter is installed:
  - a. Look for an item with a small green icon that looks like a network adapter followed by the name of your network adapter.
  - b. It will help to identify your network adapter by looking for the vendor's name and the name of the adapter. You can get this information from the documentation that came with your computer or from the box the network adapter came in.
  - c. You may see others such as **Dial-Up Adapter** or **AOL Adapter**. These are not your network adapter.
3. Check to see if **TCP/IP** is installed for your network adapter:
  - a. If you found your network adapter and it is the only adapter, look for **TCP/IP**. You may have to scroll to find this. If you find it, skip to **Configure TCP/IP For Windows 95/98/Me**
  - b. If you found your network adapter and you have more than one adapter, look for **TCP/IP followed by an arrow → followed by the name of your network adapter**. You may have to scroll to find this. If you find it, skip to **Configure TCP/IP For Windows 95/98/Me**
  - c. If you don't have **TCP/IP** at all, continue with step 4
4. Add **TCP/IP**:
  - a. Click **Add**
  - b. Double-click **Protocol**
  - c. Under **Manufacturers** on the left click **Microsoft**
  - d. Under **Network Protocols** on the right, double-click **TCP/IP**. You may have to scroll to find this
  - e. Continue with **Configure TCP/IP for Windows 95/98/Me** section

#### **Configure TCP/IP For Windows 95/98/Me:**

1. Double-click **TCP/IP**. You may have to scroll to find this
2. Click **Obtain an IP address automatically**
3. Click **OK**
4. Click **OK**
5. Insert the **Windows CD-ROM** if asked for it
6. Click **Yes** to restart if prompted. Remove the **Windows CD-ROM** if you inserted it

#### **Configure TCP/IP For Windows 2000:**

1. Right-click **My Network Places**
2. Click **Properties**
3. You will see one or more connections named **Local Area Connection**, **Local Area Connection 2**, etc. or a name you typed if you created a dial-up connection
4. Click on the first connection (not **Make New Connection**). On the left you will see **Type: LAN Connection** or **Type: Dial-Up Connection** and the name of the network adapter or modem for that connection
5. Identify your network adapter by looking for the vendor's name and the name of the adapter. You can get this information from the documentation that came with your computer or from the box the network adapter came in
6. If the connection you clicked on does not contain the name of your network adapter, click the next connection
7. Once you have identified the connection for your network adapter, right-click on that connection
8. Click **Properties**
9. Double-click **Internet Protocol (TCP/IP)**. You may have to scroll to find this
10. Click **Obtain an IP address automatically**
11. Click **OK**
12. Click **OK**
13. From the menu, select **File>>Close**

## **Configure TCP/IP For Windows XP:**

1. Click **Start>>Control Panel>>Network and Internet Connections>>Network Connections**
2. Under **LAN or High Speed Internet**, you will see one or more connections named **Local Area Connection, Local Area Connection 2**, etc
3. To the right of the icon for each connection is the name of the network adapter for that connection
4. Identify your network adapter by looking for the vendor's name and the name of the adapter. You can find this in the documentation that came with your computer or from the box the network adapter came in
5. Once you have identified the connection for your network adapter, right-click on that connection
6. Click **Properties**
7. Double-click **Internet Protocol (TCP/IP)**
8. Click **Obtain an IP address automatically**
9. Click **OK** then Click **OK again**
10. From the menu, select **File>>Close**

## **Switching back and forth between an Ethernet connection and a wireless connection**

A laptop with dual cards (Ethernet and wireless) may automatically connect to the wireless network once the Ethernet cable is unplugged and the laptop taken to the wireless network area without any intervention on the part of the user. Some users may have to release and/or renew the appropriate connection.

### **Win 95/98/Me users can do this by:**

1. Click **Start**
2. Click **Run**
3. Type **winipcfg**
4. Click **OK**
5. Select the appropriate card
6. Click **Release** (to end the connection) or  
Click **Renew** (to activate the connection)

### **Win 2000:**

1. Right-click **My Network Places**
2. Click **Properties**
3. Right-click the appropriate connection
4. Click **Disable** (to end the connection) or  
Click **Enable** (to activate the connection)

### **Win XP:**

1. Double-click **My Network Places**
2. Click **View network connections**
3. Right-click the appropriate connection
4. Click **Disable** (to end the connection) or  
Click **Enable** (to activate the connection)

## **Additional Help**

For additional help, contact Nisivoccia Consulting LLC at (973) 328-1825.