

Internet Connection Sharing for Game Consoles and DVRs

Windows XP & Vista

Apple OS X 10.4 & 10.5 are not able to connection share on a 802.1x network

Requirements:

- Game Console or DVR must have an Ethernet port or the ability to connect to a wireless ad-hoc network
- Computer must be running Windows XP or Vista*
- Computer must have two Ethernet ports[‡] or you must have a wireless connection *and* an Ethernet port (You won't be able to proceed with this setup until you have one of these options)
- Ethernet cable long enough to reach from your computer to the Game Console or DVR[§]
- Ethernet cable to connect your computer to the wall jack

* Connection sharing is possible in Linux, but must be configured on your own.

‡ If your computer doesn't have a second Ethernet port you will need to install one or purchase a USB to Ethernet adapter for your computer.

§ For PS2, Xbox, and DVRs, a crossover Ethernet cable is required. These can be purchased from a computer store. A standard (straight) Ethernet cable will work for Xbox 360 and PS3.

Ethernet-to-Ethernet Sharing

Windows XP

Step 1

Connect your computer to the Ethernet port in your room. Power up the machine and ensure you are connected to the Internet (Follow the Secure Internet Configuration Guide if the Internet is not yet setup).

Step 2

Click **Start, Settings**, then **Control Panel**.

If the Control Panel is not in Classic View, click **Switch to Classic View** from the menu on the left.

Double-click on the **Administrative Tools** icon, then double-click on the **Services** icon.

Scroll down until you find **Internet Connection Sharing (ICS)**. Double-click on it. Select **Automatic** from the **Startup Type** dropdown. Also click on the **Start** button. Click **Ok**.

Step 3

Close the **Services** window. Press the **Back button** at the top left of the **Administrative Tools** window.

Look for the icon called **Network Connections** and double-click it.

Step 4

Notice that you have two Local Area Connection icons. Select the one you have set up for Bethel's wired Ethernet (normally labeled Local Area Connection 1 or higher; it should be the one that says "connected"). **Right click** on that icon and select **Properties**.

Step 5

Select the **Advanced** tab.

Under the **Internet Connection Sharing** title, select the checkbox for **Allow Other Network Users to Connect Through this Computer's Internet Connection**.

Make sure all other checkboxes are **unchecked**. Press **OK**.

Step 6

Still in the Network Connections window, select your **secondary Local Area Connection** (normally labeled Local Area Connection 2 or higher). Right click on it and select **Properties**.

Step 7

In the General tab, select **Internet Protocol (TCP/IP)** and press the **Properties** button.

Step 8

In the General tab, **the default gateway must be left blank**.

You need to provide the **Preferred and Alternate DNS server** using the information below:

Preferred DNS Server: **140.88.96.4**

Alternate DNS Server: **140.88.96.5**

Click **OK** when finished. Click **OK** on the previous window as well.

Step 9

The Internet Connection Sharing is now setup. Plug the second ethernet cord into the desired device to have access to the Internet.

Windows Vista

Step 1

Connect your computer to the Ethernet port in your room. Power up the machine and ensure you are connected to the Internet (Follow the Secure Internet Configuration Guide if the Internet is not yet setup).

Step 2

Click on **the start orb in the bottom left** and then **Control Panel**.

If the Control Panel is not in Classic View, click **Classic View** from the menu on the left.

Double-click on the **Administrative Tools** icon, then double-click on the **Services** icon.

Scroll down until you find **Internet Connection Sharing (ICS)**. Double-click on it. Select **Automatic** from the **Startup Type** dropdown. Also click on the **Start** button. Click **Ok**.

Step 3

Close the **Services** window. Press the **Back button** at the top left of the **Administrative Tools** window.

Look for the icon called **Network and Sharing Center** and double-click it.

Then click on **Manage Network Connections** from the menu on the left.

Step 4

Notice that you have two Local Area Connection icons. Select the one you have set up for Bethel's wired Ethernet (normally labeled Local Area Connection 1 or higher; it should be the one that says "connected"). **Right click** on that icon and select **Properties** (A popup may appear asking for permission, select **Continue**).

Step 5

Select the **Sharing** tab.

Inside the Sharing tab, make sure the checkbox for **Allow other network users to connect through this computer's internet connection** is checked.

Make sure all other checkboxes are **unchecked**. Press **OK**.

Step 6

Still in the Network Connections window, select your **secondary Local Area Connection** (normally labeled Local Area Connection 2 or higher). Right click on it and select **Properties** (Again, a popup may appear asking for permission, select **Continue**).

Step 7

In the Networking tab, make sure the **Internet Protocol Version 6 (TCP/IPv6)** is unchecked. Select **Internet Protocol 4 (TCP/IPv4)** and press the **Properties** button.

Step 8

In the General tab, **the default gateway must be left blank**.

You need to provide the **Preferred and Alternate DNS server** using the information below:

Preferred DNS Server: **140.88.96.4**

Alternate DNS Server: **140.88.96.5**

Click **OK** when finished. Click **OK** on the previous window as well.

Step 9

The Internet Connection Sharing is now setup. Plug the second ethernet cord into the desired device to have access to the Internet.

Ethernet-to-Wireless Sharing

Windows XP

Step 1

Connect your computer to the Ethernet port in your room. Power up the machine and ensure you are connected to the Internet (Follow the Secure Internet Configuration Guide if the Internet is not yet setup).

Step 2

Click **Start, Settings**, then **Control Panel**.

If the Control Panel is not in Classic View, click **Switch to Classic View** from the menu on the left.

Double-click on the **Administrative Tools** icon, then double-click on the **Services** icon.

Scroll down until you find **Internet Connection Sharing (ICS)**. Double-click on it. Select **Automatic** from the **Startup Type** dropdown. Also click on the **Start** button. Click **Ok**.

Step 3

Close the **Services** window. Press the **Back button** at the top left of the **Administrative Tools** window.

Look for the icon called **Network Connections** and double-click it.

Step 4

Select the Local Area Connection that you have set up for Bethel's wired Ethernet (normally labeled Local Area Connection 1 or higher; it should be the one that says "connected"). **Right click** on that icon and select **Properties**.

Step 5

Select the **Advanced** tab.

Under the **Internet Connection Sharing** title, select the checkbox for **Allow Other Network Users to Connect Through this Computer's Internet Connection**.

Make sure all other checkboxes are **unchecked**. Press **OK**.

Step 6

Still in the Network Connections window, select your **Wireless Network Connection**. Right click on it and select **Properties**.

Step 7

In the General tab, select **Internet Protocol (TCP/IP)** and press the **Properties** button.

Step 8

In the General tab, **the default gateway must be left blank**.

You need to provide the **Preferred and Alternate DNS server** using the information below:

Preferred DNS Server: **140.88.96.4**

Alternate DNS Server: **140.88.96.5**

Click **OK** when finished. Click **OK** on the previous window as well.

Step 9

Right click on **Wireless Network Connection** again and select **View Available Wireless Networks**.

Step 10

Select **Set up a wireless network for a home or small office** from the list of options on the left.

Step 11

Click **Next** on the window that pops up.

Enter a name for your network in the box at the top labeled **Network name (SSID)**.

Select **Manually assign a network key**.

Check **Use WPA encryption instead of WEP**.

Click **Next**.

Enter in a password to access the network in the two boxes labeled **Network Key**.

Click **Next**.

Select **Set up a network manually**.

Click **Next**.

Click **Finish**.

Step 12

Your device should now be able to connect to your newly created network. You will need to enter the password that you created in the previous step.

Windows Vista

Step 1

Connect your computer to the Ethernet port in your room. Power up the machine and ensure you are connected to the Internet (Follow the Secure Internet Configuration Guide if the Internet is not yet setup).

Step 2

Click on **the start orb in the bottom left** and then **Control Panel**.

If the Control Panel is not in Classic View, click **Classic View** from the menu on the left.

Double-click on the **Administrative Tools** icon, then double-click on the **Services** icon.

Scroll down until you find **Internet Connection Sharing (ICS)**. Double-click on it. Select **Automatic** from the **Startup Type** dropdown. Also click on the **Start** button. Click **Ok**.

Step 3

Close the **Services** window. Press the **Back button** at the top left of the **Administrative Tools** window.

Look for the icon called **Network and Sharing Center** and double-click it.

Then click on **Manage Network Connections** from the menu on the left.

Step 4

Notice that you have two Local Area Connection icons. Select the one you have set up for Bethel's wired Ethernet (normally labeled Local Area Connection 1 or higher; it should be the one that says "connected"). **Right click** on that icon and select **Properties** (A popup may appear asking for permission, select **Continue**).

Step 5

Select the **Sharing** tab.

Inside the Sharing tab, make sure the checkbox for **Allow other network users to connect through this computer's internet connection** is checked.

Make sure all other checkboxes are **unchecked**. Press **OK**.

Step 6

Still in the Network Connections window, select your **Wireless Network Connection**. Right click on it and select **Properties** (Again, a popup may appear asking for permission, select **Continue**).

Step 7

In the Networking tab, make sure the **Internet Protocol Version 6 (TCP/IPv6)** is unchecked. Select **Internet Protocol 4 (TCP/IPv4)** and press the **Properties** button.

Step 8

In the General tab, **the default gateway must be left blank.**

You need to provide the **Preferred and Alternate DNS server** using the information below:

Preferred DNS Server: **140.88.96.4**

Alternate DNS Server: **140.88.96.5**

Click **OK** when finished. Click **OK** on the previous window as well.

Step 9

Right click on **Wireless Network Connection** again and select **Connect / Disconnect**.

Step 10

Select **Set up a connection or network** from the list of options at the bottom.

Step 11

Select **Set up a wireless ad hoc (computer-to-computer) network** in the window that pops up.

Click **Next** twice.

Enter a name for your network in the box at the top labeled **Network name**.

Leave the **Security type** box as **WPA2-Personal**.

Enter in a password to access the network in the two boxes labeled **Security Key/Passphrase**.

Click **Next**.

Click **Close**.

Step 12

Your device should now be able to connect to your newly created network. You will need to enter the password that you created in the previous step.