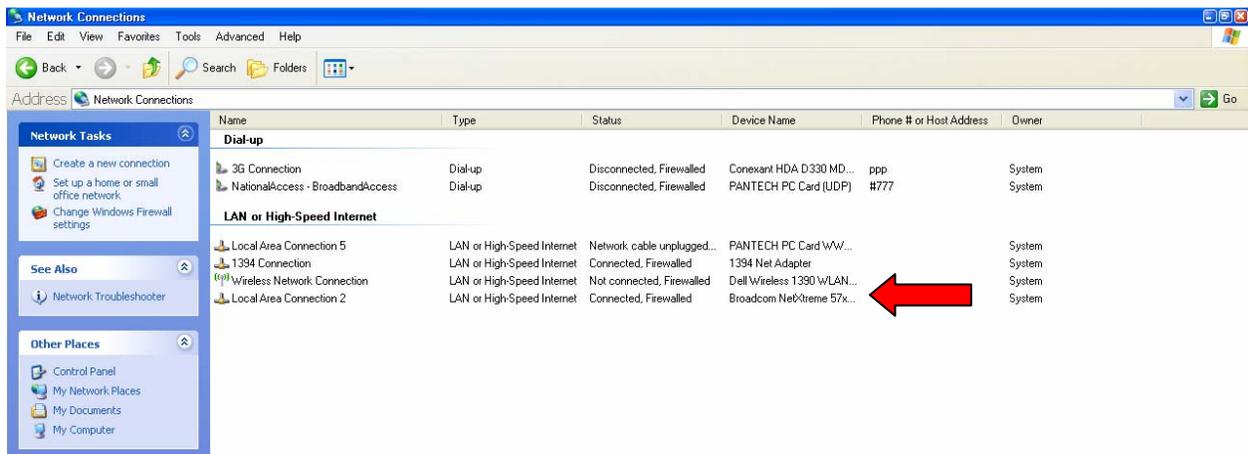


## Connecting the WebNode to a network:

### Determining your “Internal Network (Intranet)” address:

If an IT representative cannot definitively tell you the IP address of the WebNode's connection, you can use your laptop to figure it out. Using the cable you are going to connect to the WebNode, plug into the network connection of your laptop. Click on the "START" button, click on "MY NETWORK PLACES", open “View Network connections” (found under “Network Tasks” on the left side of the menu). Look for a connection under ‘LAN or High Speed Internet’ that is enabled. This should be your current connection.



Highlight the connection and double click on it. A "Status Window" should pop up. Click on the tab labeled “support”. The IP address on the Network is shown. Write down the number. This is the number you will enter into the Com Port Redirector software as the Host address when connecting via the internal Ethernet (Intranet).

### Determining your “External Network (Internet)” address:

To determine what your external IP address is: Using the cable you are going to connect to the WebNode, plug into the network connection of your laptop. Go to the website [www.whatismyip.com](http://www.whatismyip.com) . This is the number you will enter into the Com Port Redirector software as the Host address when connecting via the internet.

### Access the WebNode from the Internal Network:

Reconnect the WebNode to the network cable. Now go to a PC on the internal network that will be accessing the controller. Install LRWS and Com Port Redirector (CPR) software per the instructions. Use the network IP address, obtained earlier, and the port from the back of the node for the host address. You should be able to connect using LRWS.

## **Access the WebNode from the Internet:**

The person responsible for IT will need to open ports in their firewall or complete a task called “port forwarding” on their router. The ports they will need to open are:

The port identified on the WebNode serial tag (1XXXX), Port 30718 (the tagback protocol port) and if you want to access the WebNode’s web page, port 8080 as well. To re-assure the IT person, you can present the following information:

The WebNode is also a Web Server. Once turned on and connected to a network, it will grab the assigned port (from the serial tag) and not allow any transmission or Reception of Protocols’ except through it to an attached RS-232 Device (the 2000 Series controller). The 2000 series controller is a dead end hardware separated system that has no pathways or links to the rest of the network. It is a password and protocol protected LONWORKS based operating system, therefore it is incompatible with ALL Microsoft Windows and Linux based files systems and network formats. There are NO known viruses or hacks that can bridge the hardware/operating system differences. Lakewood Instruments has been operating its “Demo” WebNode’s on its network for public exposure and use since the inception of the program with NO incursions or network penetration issues.

After IT opens the above mentioned ports in their firewall, you can install LRWS and Redirector on any PC connected to the internet. Using the instructions for installing the software, enter the Address found with “What is my IP” while at the site and the port number. You should be able to connect using LRWS.