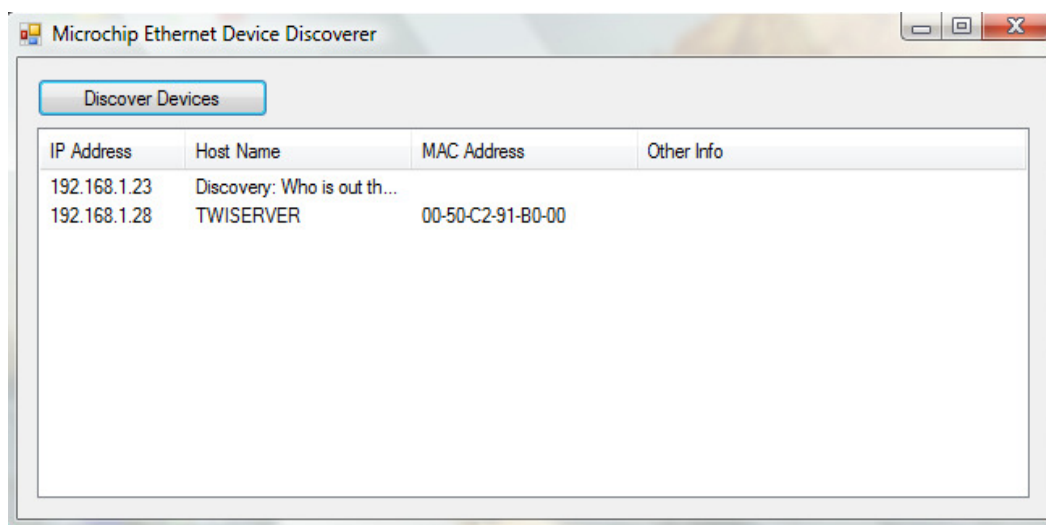


Appendix for the Network Weather Station

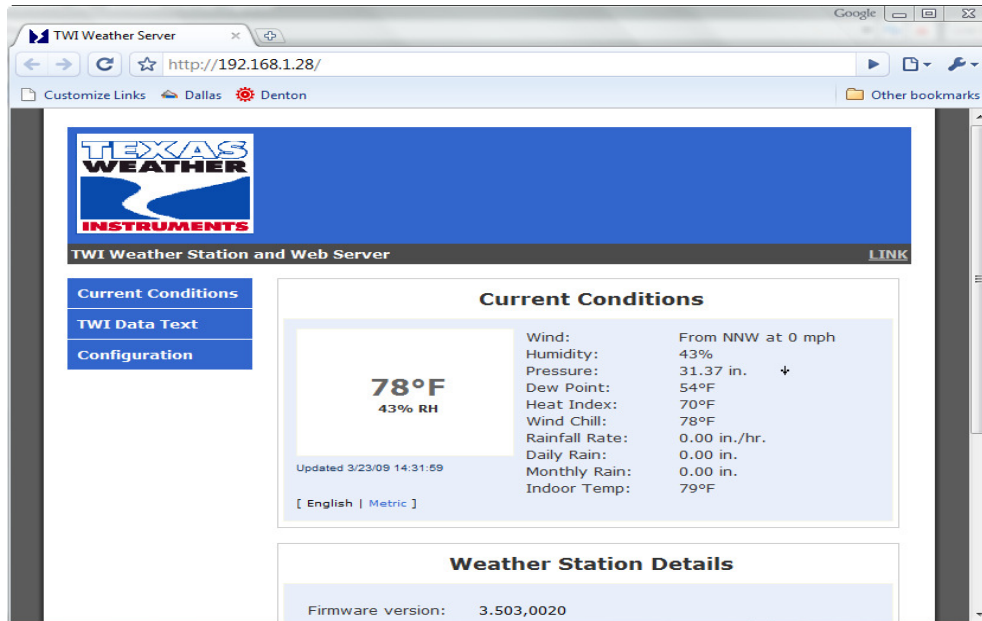
The **WRL-Network**, the **WPS-Network** and the **WLS-Network** models, function as a web server to view real time weather and to perform setup and calibration functions. There is also an FTP server to send data files off site and a weather server to upload weather data to the Weather Underground. *Weather Underground*, is a weather website which will display and log your weather data for free on the Internet. The Network Weather Station is preloaded with HTML pages to let you view real time data updated once per second in a browser either locally or worldwide. Other features include DHCP client or Static IP addressing, Telnet, ICMP support, NBNS support, AJAX functionality and XML support.

Setup

Follow the directions found in the WRL, WPS or WLS manuals for proper set up of your weather station. Then plug the Network Weather Station (NWS) network cable (green) into your network router. Make sure that your Network Weather Station is powered up. The NWS comes pre-configured from the factory with the network adapter set in DHCP mode. DHCP will automatically work with your router to configure your network settings (IP address, gateway, DNS server and subnet mask). To discover what IP address that DHCP has given your NWS, you must run a program called Discoverer.exe on a Windows computer. The program is available at <http://txwx.com/downloads/Discoverer.exe> and is also available on your CD that is supplied with the NWS. Select save when asked in a folder of your choice. Load Discoverer.exe and you will see the following:



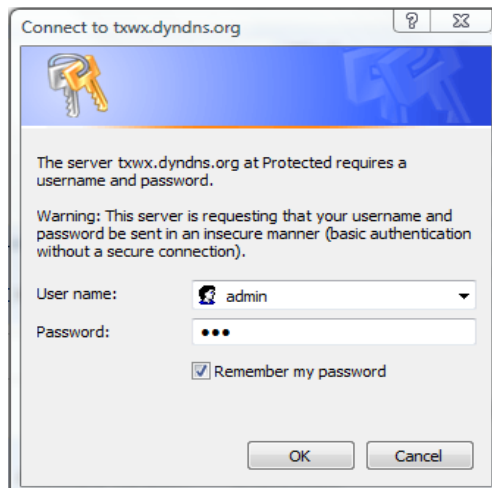
In this example, the IP address of the Network Weather Station is 192.168.1.28. You can type that IP address into your browser or simply click on the IP address with the host name "TWISERVER" from inside the discoverer program. You will then see the following screen in your browser:



You are communicating directly with your NWS through its web server. All configuration will be done from this page. Click on the "TWI Data Text" button to see a text file of the NWS data that is updated once a minute. You must reload the screen manually to get the latest data. Click on "Configuration" to change settings in the NWS. Click on Current Conditions to go to the weather screen. In this configuration the data is updated every three seconds.

Configuration

Click the Configuration button and the following screen will appear:



Entering the configuration screen requires a User name and Password. The default user name is “admin” and the default password is “eds”.

After clicking OK on the correct password the following screen will appear:

The screenshot shows a web browser window with the following elements:

- Header:** Texas Weather Instruments logo on the left, and "Texas Weather Instruments Dallas 635 & Skillman" in large blue text on the right.
- Sub-header:** "TWI Weather Station and Web Server" with a "LINK" button on the right.
- Navigation Menu:** A vertical list on the left with "Current Conditions", "TWI Data Text", and "Configuration" (highlighted). A horizontal row of buttons includes "User", "FTP", "Weather Network", "Weather Station", "Web Server", and "Dynamic DNS".
- Main Content:** A large heading "Configuration" followed by a welcome message: "Welcome to the configuration section. Access the individual configuration pages from the menu above." Below this is a red-bordered box with a "CAUTION" message: "Incorrect settings may cause the server to lose network connectivity or interfere with other functions, proceed with care."
- Footer:** "Copyright © 2008 Texas Weather Instruments, Inc."

Follow the directions on each page for help entering the correct information.

FAQ's

What is the default password?

The default user name is “admin”, and the default password is “eds”.

I do not know my password for the weather server.

Try the default above or as a last resort reset the weather server using the black reset switch located on the bottom of the weather server board. When you push the black reset switch, the user name will be reset to “admin” and the password will be “eds”. The network configuration will also be reset to the factory defaults. DHCP will be enabled and your IP address will be changed. To find the IP address again use the Discoverer program.

I do not know the IP address for the Network Weather Station.

Use the Discoverer utility to find your IP address. You can find discoverer at www.txwx.com/downloads/discoverer.exe .

The Discoverer program cannot find the Network Weather Station.

Make sure that your weather station network cable which is labeled “network cable” is plug in properly. When plugged in properly the network jack on the network board and

on the router should light up. When data is being transferred to or from the network the light will flash.

The data on the web sever web page does not match the console.

Make sure the the network weather station baud rate and weather server baud rate are the same. The default baud rate is 9600. On the WRL and WLS consoles you can access the baud rate by pressing select and average at the same time and stepping through with the select button until you see the baud rate. To change the weather sever baud rate from your computer select **User** from the configuration screen.

I want to attach my weather station to a computer via a serial port not the network port.

Unless you have the optional com port you must disable the weather server before using the com port (ribbon cable with a blue db9 plug). To disable the weather server put the jumper on JP2. JP2 is located near the termination of the serial ribbon cable.

What do the flashing lights mean on the network board?

LED1 Alive- flashes when the network processor is working.

LED2 Wsdata- flashes when communicating with the weather station processor.

I need help troubleshooting where my data is going.

You can telnet into you Network Weather Station and view the data from the weather station to the weather server, the data from the weather server to the weather network or the FTP data. To telnet from a XP computer go to start, run and type in CMD. A DOS prompt will appear. Type telnet xxx.xxx.xxx.xxx where the x's are your NWS IP address (example telnet 192.168.1.28). Follow the on screen instruction. Press escape to exit this program. In a Vista computer you might need to install the telnet program. Type telnet in your Visa help line for information on this.

How do I get Weatherview32 to work with the Network Weather Station.

When on the Weatherview32 cloud screen (disconnected) go to Setup, WeatherView properties, connection. In the Weather Wing field enter your Network Weather Station IP address followed by a slash and twidata.txt (example <http://192.168.1.28/twidata.tx>) and then check mark the enable box. This setting is used if you are looking at your NWS locally or if you have a static IP address that has be properly configured through your firewall. If you are FTPing your data off site, you can point Weatherview32 to that address, a working example of that address is <http://txwx.com/twi/twidata.txt> .

I want to be able to configure my Network Weather Station remotely.

You will need to configure your firewall for this. If you have a static IP address, it will need to be mapped to your internal IP address. If you have a dynamic IP address, enable and configure the DDNS server in the NWS. The DDNS server will report to a free service like dyndns.org your current IP address. Please note that the DDNS server does not work with some ISPs.

For help setting up the Network Weather Station call us at 214-452-1588 and ask for technical support. We will be glad to help you get your weather station going on your network. We cannot help you with router, DSL modem or firewall settings. You will need a network professional to do that.