Vision WatchDog Network Setup

Instructions Manual

PNEG-1720
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Contents

Introduction

This document is intended to help network technicians install the WatchDog. It briefly describes how to setup the network configuration of the WatchDog.

WatchDog Setup

The WatchDog's WAN (Wide Area Network) port default is setup as a DHCP (Dynamic Host Configuration Protocol) Client. The script to configure the port is only executed on start-up. To pull down an IP (Internet Protocol) address, it needs to be attached to a DHCP Server when it is booted.

The MAC (Media Access Control) address is printed on a label that is attached to the front of the WatchDog board.

Configuring the WatchDog Network Settings

To access the WatchDog setup, connect a computer to the LAN (Local Area Network) port of the board, using a CAT5 network cable. Make sure the red "SYS" LED is illuminated on the board, as this ensures the Operating System (OS) has booted completely.

Open a web browser (i.e. Internet Explorer, Mozilla Firefox …) and type "192.168.1.200" into the URL bar (where you would normally type www.google.com for example). This will bring up a login screen as shown in *Figure 1A*.

Figure 1A *Login Screen*

The default password is "default". The password is the same as is used to access the WatchDog. Therefore, if the user has changed the password, the setup password will be whatever they have changed it to. If the user forgets his/her password, see the user manual for resetting the password.

Once logged in, *Figure 1B* should be displayed on your screen.

Watchdog Network Setup

WatchDog Network Status

The WAN port is setup as follows:

IP Address:	10.2.5.130
Subnet Mask:	255.255.255.0
Gateway:	10.2.5.1
DNS1:	172.20.63.1
DNS2:	172.20.63.2

Configure WatchDog Network

Setup the WAN port for DHCP or Static IP:
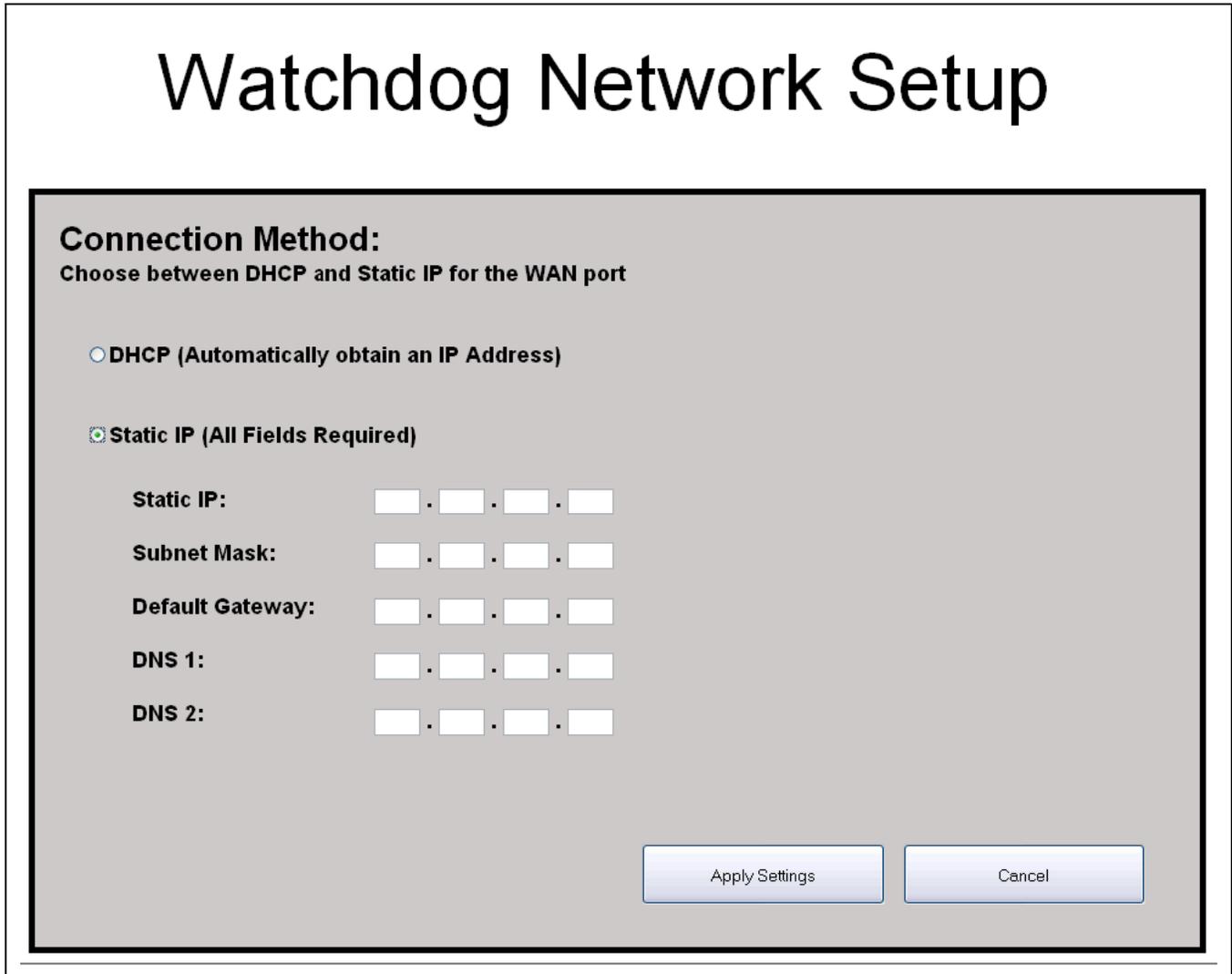
Configure

Figure 1B *Network Status Screen*

The current setup is displayed to the left of this screen. Of course, your address will differ from *Figure 1B*. If the device is setup as a DHCP Client and the IP address that is displayed is "10.11.12.1", this means the DHCP Server did not serve the board an IP address. If you were expecting the board to pull down an IP address, reset the power ON the modem/router and then the WatchDog board. If these addresses need to be modified, click the "Configure" button to the right. This will take you to *Figure 1C*.

Watchdog Network Setup

Connection Method:
Choose between DHCP and Static IP for the WAN port

○ DHCP (Automatically obtain an IP Address)

○ Static IP (All Fields Required)

Apply Settings   Cancel

Figure 1C *Network Configuration*

1. WatchDog Network Setup Instructions

At first, neither DHCP or Static is selected. Choose one or the other depending on how you would like to setup the WatchDog's network parameters. If "Static IP" is selected, the following fields are displayed for entry: IP Address, Subnet Mask, Default Gateway, DNS 1 and DNS 2. *Figure 1D* depicts these entries.

Figure 1D *Enter Static IP Parameters*

Note that all fields are required when using the Static IP option. If you are missing any of the addresses, contact your service provider and they will be able to give you the missing information.

Once you have chosen the setup that you would like, click "Apply Settings". After clicking the button you will be redirected to a page that counts down from ninety (90) seconds. This is changing the board's configuration and resetting it so the changes will take effect. The network scripts only execute on boot, so the WAN port on the board needs to be connected to the modem/router on boot.

After the timer expires, you will be redirected back to the Network Status screen *on Page 5*. If the page does not display the addresses correctly, make sure the red LED on the WatchDog board is ON and then refresh the web page.

Configuring a Modem/Router

If the WatchDog board is connected to a modem/router that is configurable, listed below are a few recommendations for setting them up. The methods below do not cover every configuration that is available. If the modem is not configurable, refer to *Figure 1C on Page 5* for setting the WatchDog Network to the static IP allocated by your service provider.

Static IP

This is the preferred method for installation. Acquire the LAN's default gateway address of the modem/router. Replace the last number of the default gateway with a number that is not within the DHCP pool range. For example, if the default gateway is 192.168.2.1 and the modem/router's DHCP pool range is 100 to 200, replace the last number of the default gateway address with, say, 50. This would result in an address of 192.168.2.50. Using the WatchDog Network setup screens, set the static IP address of the board to your chosen IP address, refer to *Figure 1D on Page 6*.

In the router/modem configuration, forward incoming request on ports 22, 23 and 80 to the static IP.

DHCP Pool

If the modem/router does not have DHCP reservations, the board can be allowed to pull an IP address from the DHCP server's IP range. This method is only recommended when the WatchDog is the only node on the network.

Reduce the IP range of the DHCP server down to one IP address. This will be the only IP address that the DHCP server is allowed to serve to the network. Once the range has been narrowed to one, forward incoming request on ports 22, 23 and 80 to the single IP address.

DHCP Reservations

A reservation can be an option in the configuration of a modem/router. It can be set to serve a given MAC address with a certain IP address when it is introduced to the network. As mentioned above, the MAC address of the WatchDog board can be found on a label on the front of it.

Once the IP address has been setup for the MAC address, forward incoming request on ports 22, 23 and 80 to the board.

NOTES

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