

GETTING STARTED

This NetVanta unit ships with a statically assigned IP address of 10.10.10.1 and the ability to connect to a Dynamic Host Control Protocol (DHCP) network and receive an IP address assignment from a DHCP server. When connecting to a DHCP network, this unit supports Zero-Touch Provisioning, allowing the NetVanta router to download and apply configuration parameters from a configuration management server.



NOTE

DHCP is enabled by default on the NetVanta 6250 Series unit only.

Regardless of the method you use to connect the NetVanta unit to the network, there are two methods available for configuration:

- Web-based graphical user interface (GUI)
- Command line interface (CLI)

The GUI lets you configure the main unit settings and provides online guidance and explanations for each setting. However, using the AOS CLI may be necessary for more advanced configurations.

ACCESS THE GUI

You may access the GUI from a web browser in one of two ways:

Connect via the Static Address

1. Connect the router to your PC using the port labeled **GIG 0/1** on the front of the unit.
2. Set your PC to a fixed IP address of **10.10.10.2**. To change your PC IP address, navigate to **Computer > Control Panel > Network Connections > Local Area Connection > Properties > IP (TCP/IP)** and select **Use this IP Address**. Enter these parameters:
 - IP Address: **10.10.10.2**
 - Subnet Mask: **255.255.255.0**
 - Default Gateway: **10.10.10.1**

You do not need to enter any DNS server information. After the information is entered, select **OK** twice, and close the Network Connections dialog box. If you cannot change the PC's IP address, you will need to change the unit's IP address using the CLI. (See "[Access the CLI](#)" on page 2.)

3. Open a web browser and enter the unit's IP address in your browser address line as follows: **http://10.10.10.1**. The default IP address is **10.10.10.1**, but if you had to change the unit's IP address using the CLI, enter that address in the browser line.
4. The initial GUI screen appears.

Connect via the DHCP Client Address

1. Connect the router to an existing network that supports DHCP using the port labeled **GIG 0/1** on the front of the device. The NetVanta unit will automatically request an IP address assignment from the DHCP server.
2. Check the DHCP server and record the IP address assigned to the NetVanta unit.
3. Open a web browser on any network PC that can route to the IP address recorded in Step 2 and enter the NetVanta unit's IP address.
4. The initial GUI screen appears.



NOTE

It is best to only use the Configuration Wizard for new installations because some existing settings can be lost or reset when using this wizard.

ACCESS THE CLI

Access the AOS CLI via the **CRAFT** port or a Telnet or SSH session. To establish a connection to the NetVanta unit **CRAFT** port, you need the following items:

- PC with VT100 terminal emulation software
- Straight-through serial cable with a DB-9 (male) connector on one end and the appropriate interface for your terminal or PC communication port on the other end.



NOTE

You can find VT100 terminal emulation software on most PCs by navigating to **Start > Programs > Accessories > HyperTerminal > HyperTerminal**. When you have opened a HyperTerminal session, enter the settings described in Step 4.

1. Connect the DB-9 (male) connector of your serial cable to the **CRAFT** port on the back panel of the unit.
2. Connect the other end of the serial cable to the terminal or PC.



NOTE

Many PCs do not come with a standard serial port. A universal serial bus (USB) to serial adapter can be used instead. The drivers for the USB to serial adapter must be installed according to the manufacturer's instructions. If the USB to serial adapter is not properly installed on your PC, you will not be able to communicate with the AOS unit and you should seek support from the USB to serial adapter manufacturer.

3. Insert the connector of the provided power cord into the power interface on the back panel of the unit, and plug the cord into a standard electrical outlet. Refer to the *NetVanta 6240/6250 Series Hardware Installation Guide* at <https://supportforums.adtran.com> for more details.
4. Once the unit is powered up, open a VT100 terminal session using the following settings: 9600 baud, 8 data bits, no parity bits, and 1 stop bit. Press **<Enter>** to activate the AOS CLI.
5. Enter **enable** at the **>** prompt. Enter the enable password when prompted. The default password is **password**.

You can also access the CLI from a Telnet client. In order to do this, you must know the IP address of the AOS device. If you do not know the unit's IP address, you must use the **CRAFT** port to access the CLI. To access the CLI using a Telnet client, follow these steps:

1. Connect the NetVanta unit to your PC using an Ethernet cable connected to the **GIG 0/1** port on the front of the device or connect the NetVanta unit to an existing network that supports DHCP using the **GIG 0/1** port on the front of the device.
2. Open a Telnet client on your computer and enter **10.10.10.1**. If your unit received an IP address from a DHCP server or you have changed your unit's IP address, you will need to enter that address.
3. Enter **enable** at the **>** prompt and enter the enable password when prompted. The default password is **password**.

COMMON CLI COMMANDS

The following are common CLI commands and tips for getting started with the CLI.

- Entering a question mark (?) shows contextual help and options. For example, entering ? at the prompt will show all commands available from that prompt.
- To view interface statistics, enter **show interface <interface type> <interface number>**.
- To view the current configuration, enter **show running-config**.
- To view all the IP addresses currently configured, enter **show ip interface brief**.
- To view the AOS version, serial number, and other information, enter **show version**.
- To save the current configuration, enter **write**.

MANUALLY CONFIGURING THE UNIT'S IP ADDRESS



NOTE

The configuration parameters used in the examples outlined in this document are for instructional purposes only. Please replace all underlined entries (**example**) with your specific parameters to configure your application. This step is unnecessary if the unit's IP address has been configured automatically using DHCP (NetVanta 6250 Series products only).

The following steps create an IP address and subnet mask for **GIG 0/1**.

1. At the **#** prompt, enter **config terminal**.
2. At the **(config)#** prompt, enter **interface gig 0/1** to access the configuration parameters for the Gigabit Ethernet port located on the front of the unit.
3. Enter **ip address 10.10.10.1 255.255.255.0** to assign an IP address to the Gigabit Ethernet port using a 24-bit subnet mask.
4. Enter **no shutdown** to activate the interface to pass data.
5. Enter **exit** to exit the Ethernet interface commands and return to the Global Configuration mode.
6. Enter **ip route 0.0.0.0 0.0.0.0 192.168.1.254** to add a default route to the route table. **0.0.0.0** is the default route and the default subnet mask, and **192.168.1.254** is the next-hop IP address to which the AOS unit should send all of its traffic. You will need to enter the proper route, subnet mask, and gateway for your network. This information is typically provided by an Internet service provider (ISP) or local network administrator.
7. Enter **do write memory** to save the current configuration.

ENABLE TELNET USER LOGIN ACCESS

The following steps enable user login parameters for Telnet access by changing the password from the default (**password**) and enabling security login on Telnet lines.

1. Verify that the prompt of your unit displays **(config)#**.
2. Enter **line telnet 0 4** to change the configuration parameters for the Telnet sessions.
3. Enter **login** to prompt users with a login prompt for Telnet access.
4. Enter **password adtran** to change the login password for the Telnet sessions.
5. Enter **exit** to return to the Global Configuration mode.
6. Verify that the prompt of your unit displays **(config)#**.
7. Enter **do write memory** to save the current configuration.

NETVANTA 6240/6250 SERIES DEFAULTS

Feature	Default Value
IP Address	10.10.10.1
DHCP	Client Enabled (NetVanta 6250 Series only)
Auto-Config	Zero Touch Provisioning Enabled (NetVanta 6250 Series only)
User Name	admin
Password	password
HTTP Server	Enabled
Event History	On
IP Routing	Enabled

RESTORING FACTORY DEFAULTS

On units that have a console port, you cannot restore the factory defaults, but must rather erase the device's configuration and then reconfigure the unit to operate correctly for your network. To erase the unit's current configuration, follow these steps:

1. Access the unit's CLI and enter **enable** at the **>** prompt.
2. Enter **erase startup-config** at the **#** prompt. The device will have a blank configuration upon reboot.
3. Enter **reload** at the **#** prompt to begin restarting the device. When prompted to save configuration, enter **no**. When prompted to reboot, enter **yes**.
4. Upon reboot, you will have to reconfigure the unit using the **CRAFT** port. Follow the steps outlined here or in the technical note, [Accessing the Web Interface in AOS](https://supportforums.adtran.com) available at <https://supportforums.adtran.com>.



VOICE CONNECTION

A single 50-pin female amphenol connector provides the interconnect wiring for the analog circuits (FXS and FXO). Refer to the *NetVanta 6240/6250 Series Hardware Installation Guide* at <https://supportforums.adtran.com> for detailed pin-out information.

BATTERY BACKUP CONNECTION

An optional battery backup system (P/N 1175044L1) is available for the NetVanta 6240/6250 Series. Refer to the *NetVanta 6240/6250 Series Hardware Installation Guide* and to the documentation shipped with the battery backup system for more information on this connection.

THIRD-PARTY SOFTWARE

The software included in this product contains copyrighted software that is licensed under the GNU General Public License (GPL). You can obtain the complete corresponding source code of such software components from ADTRAN for a period of three years after our last shipment of this product. If electronic distribution is desired, you may send your request to OpenSourceReviewBoard@adtran.com.

If distribution on physical media is desired, you can send a request, together with a money order or check for \$5, to:

ADTRAN, Inc. Attn: OSRB Coordinator
901 Explorer Blvd. Huntsville, AL 35806

Please indicate in your request that this is a GPL Source Request. Please also identify the requested product's part number. This offer is valid to anyone in receipt of this information.

CONFIGURE YOUR APPLICATION

The applications you will need to configure vary by product and by network. Review the list of defaults for your unit before deciding what applications to configure. At the end of this document is a list of configuration guides that relate to common applications that should be configured on startup. These guides are all available online on [ADTRAN's Support Community](#).

The following configuration guides provide configuration information for applications typically used within this product. All documents are available online at <https://supportforums.adtran.com>.

Configuring T1 Access to a Remote Site Using PPP in AOS

Configuring Port Forwarding in AOS

Configuring DHCP in AOS

Configuring VPN using Aggressive Mode in AOS

Configuring Internet Access (Many to one NAT) with the Firewall Wizard in AOS

Configuring QoS for VoIP in AOS

Configuring QoS in AOS

Configuring a VPN using Main Mode in AOS

Configuring PPP in AOS

Configuring Frame Relay in AOS

Configuring the Switchboard and Dial Plan in AOS

Configuring Enhanced ANI/DNIS Substitution in AOS

Configuring HDLC in AOS

Configuring Voice Traffic over SIP Trunks in AOS

Configuring PRI Signaling for DSX-1 in AOS

Configuring Source and ANI Based Routing in AOS

Using Auto-Config in AOS

ADTRAN CUSTOMER CARE:

From within the U.S. 1.888.423.8726

From outside the U.S. +1 256.963.8716

PRICING AND AVAILABILITY 1.800.827.0807

