

## GETTING STARTED

The NetVanta 5660 is configured using the command line interface (CLI). Entering a question mark (?) at the command prompt displays contextual help and all commands available from that prompt.

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.

## RECEIVE A DHCP CLIENT ADDRESS

1. Connect the router to an existing network that supports DHCP using the **GIG 0/2** Gigabit Ethernet port 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.

## ACCESS THE CLI

Access the AOS CLI via the **CONSOLE** port or a Telnet or SSH session. To establish a connection to the NetVanta unit **CONSOLE** 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

There are many terminal emulation applications available on the web. PuTTY, SecureCRT, and HyperTerminal are a few examples.

1. Connect the DB-9 (male) connector of your serial cable to the **CONSOLE** 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. Provide power to the unit as appropriate. Refer to the [NetVanta 4660/5660 Hardware Installation Guide](https://supportforums.adtran.com) available online 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, 1 stop bit, and no flow control. Press ENTER to activate the AOS CLI.
5. Enter **enable** at the > prompt and enter the Enable mode password when prompted. The default password is **password**.

You can also access the CLI from a Telnet or SSH 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 **CONSOLE** port to access the CLI. To access the CLI using a Telnet or SSH client, follow these steps:

1. Connect the NetVanta unit to your PC using an Ethernet cable connected to the **GIG 0/2** Gigabit Ethernet port on the front of the device or connect the NetVanta unit to an existing network that supports DHCP using the **GIG 0/2** Gigabit Ethernet port on the front of the device.
2. Open a Telnet or SSH 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. Log into the unit using the default login (**admin**) and password (**password**).
4. 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 interfaces** <interface type> <interface number>.
- To view the current configuration, enter **show running-config**.
- To view all the IP Addresses currently configured, enter **show ip interfaces brief**.
- To view the AOS version, serial number, and other information, enter **show version**.
- To view the routing table, enter **show ip route**.
- 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.

The NetVanta 5660 unit's IP address can be configured from either the Gigabit Ethernet subinterface (for a user network interface (UNI)) or the system management Ethernet virtual

connection (EVC) (for a network-to-network interface (NNI)). The following steps assign an IP address and subnet mask for the **GIG 0/2.1** Gigabit Ethernet subinterface.

1. At the **#** prompt, enter **config terminal**.
2. At the **(config)#** prompt, enter **interface gig 0/2.1** to access the configuration parameters for the Gigabit Ethernet subinterface.
3. Enter **ip address 192.168.1.1 255.255.255.0** to assign an IP address to the Ethernet subinterface using a 24-bit subnet mask.
4. Enter **exit** to exit the Gigabit Ethernet subinterface commands and return to the Global Configuration mode.
5. 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.
6. Enter **do write memory** to save the current configuration.

## ENABLE TELNET USER LOGIN ACCESS

The following steps create a password of **adtran** for Telnet access. By default, Telnet access is enabled with a password of **password**.

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 require a password 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 5660 DEFAULTS

Feature	Default Value
User Name	admin
Password	password
Enable Password	password
HTTP Server	Disabled
Event History	Enabled
IP Routing	Enabled
DHCP	Client Enabled
Auto-Config	Zero Touch Provisioning Enabled

## RESTORING FACTORY DEFAULTS

The factory default configuration can be restored by following these steps:

1. Access the unit's CLI and enter **enable** at the > prompt.
2. Enter **factory-default** at the # prompt. The device will warn the user that restoring the factory settings will erase the current startup configuration and reboot the unit.
3. When prompted to restore the factory default settings, enter **y** (yes).
4. Upon reboot, you will have to reconfigure the unit. Follow the steps outlined previously in this document to reconfigure the unit.

## 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 are a list of configuration guides that relate to common applications that should be configured on startup. These guides are all available online the [ADTRAN Support Community](https://supportforums.adtran.com).

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

[NetVanta 4660/5660 Hardware Installation Guide](#)

[Layer2/Layer3 Carrier Ethernet Services in AOS](#)

[Configuring Port Forwarding in AOS](#)

[Configuring Ethernet OAM Using Y.1731](#)

[Configuring DHCP Server in AOS](#)

[Configuring Network Synchronization in AOS](#)

[Configuring Internet Access \(Many to one NAT\) with the Firewall Wizard in AOS](#)

[Network Monitoring in AOS](#)

[Configuring QoS in AOS](#)

[Implementing Auto-Config using the CLI](#)

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