

Quick Start

NetVanta 1550 Series Gigabit Ethernet Switch

GETTING STARTED

To access your NetVanta 1550 Series device with firmware versions earlier than the supported Extended Maintenance Release (EMR), currently R13.5.3, you have two options:

- ADTRAN Operating System (AOS) command line interface (CLI)
- Web-based graphical user interface (GUI)

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



NOTE

It is recommended to upgrade all ADTRAN switches to the current firmware release (currently R13.5.3). This is especially true of the 1550 series switches since they can become completely un-responsive with BVS1.0 firmware. This firmware is available on our Website at www.adtran.com under **Support > Product Downloads > Software Releases**.

Upgrades can be done during working hours and the required reboot will not happen until the administrator requests the reboot with the CLI command or Web interface. The Web interface firmware upgrade is usually the easiest method. Firmware can be loaded and waiting until the maintenance window occurs and allows reboot.

For detailed instructions, refer to the *Upgrading Firmware in AOS* configuration guide, available online at <https://supportcommunity.adtran.com>.

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
- Micro USB 2.0 5-pin type B cable or DB-9 to RJ-45 serial cable (rollover cable)



NOTE

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

1. From the **CONSOLE** interface, you can set the IP address of the switch which will allow you Web access later. The default credentials are:

Username: **admin**

Password: **password**

2. Using a PC to connect to an Ethernet port on the switch, you can access the switch CLI with telnet or SSH, if the IP address of the switch has been configured and there is a username and password set. The IP address of the switch is set to **DHCP** (by default,) so it would be assigned by a DHCP server on a network connected to the switch or the switch default IP address will not be reachable. The default credentials are:

Username: **admin**

Password: **password**

Once connected to the switch CLI, the IP address can be set as shown by the example below.

Example Configuration

```
>
>enable
#configure terminal
(config)#interface vlan 1
(config-intf-vlan 1)#ip address 10.19.221.50 /24
(config-intf-vlan 1)#no shutdown
(config-intf-vlan 1)#exit
(config)#exit
#write
Building configuration...
Done. Success!
#
```

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**.

POWER OVER ETHERNET

The NetVanta 1550-24P (P/N 17101524PF1) and the NetVanta 1550-48P (P/N 17101548PF1) are Power over Ethernet (PoE) switches. PoE switches provide the ability to detect attached powered devices (PDs) and deliver 48 VDC to the PD via existing Ethernet cabling. The NetVanta 1550 PoE Series are fully compliant with the IEEE 802.3af and IEEE 802.3at PoE+ standards. By default, the PoE switches discover and provide power to IEEE-compliant PDs.

To disable PoE, use the **power inline never** command in the CLI. To disable power detection and supply from the GUI, select the **Ports** page. Then select a port from the list (e.g., **giga-swx 0/1**). This will bring up the port detail page for **giga-swx 0/1**. On this page, there is a check box to disable power detection.

CONFIGURE 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.

The following steps create an IP address and subnet mask for the VLAN interface **vlan 1**. If you are not sure what IP address to assign, please contact your network administrator.

1. At the # prompt, enter **config terminal**.
2. At the (config)# prompt, enter **interface vlan 1** to access the configuration parameters for the VLAN interface.

3. Enter **ip address** 192.168.1.1 255.255.255.0 to assign an IP address to the VLAN interface using a 24-bit subnet mask.
4. Enter **no shutdown** to activate the VLAN interface to pass data.
5. Enter **exit** to 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 will 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** to save the current configuration.

CHANGE LOGIN PASSWORDS

1. To modify a current user account or create a new account, from the **(config)#** prompt, enter the command **username** *<username>* **password** *<password>*.
2. To modify the Enable mode password, from the **(config)#** prompt, enter the command **enable password** *<password>*.
3. To modify the Telnet password, from the **(config)#** prompt, enter the command **line telnet 0 4** and then press **<Enter>**. Enter the command **password** *<password>*.
4. Enter **do write** to save the current configuration.

ACCESS THE GUI

If you connect the switch to a network with a Dynamic Host Control Protocol (DHCP) server, you can connect to the Web interface using either **10.10.10.1** or the DHCP-assigned IP address. The DHCP server assigned IP address will bring up the Virtual Local Area Network (VLAN) interface and then the secondary IP address (**10.10.10.1**) will also be responsive.

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](#).



NOTE

Important: For additional details on product features, specifications, installation, and safety, refer to the [NetVanta 1550 Series Hardware Installation Guide](#) at <https://supportcommunity.adtran.com>.

NETVANTA 1550 SERIES FACTORY DEFAULTS

Feature	Default Value
IP Address	10.10.10.1 (when connected to a DHCP server)
User Name	admin
Password	password
HTTP Server	Enabled
Event History	On
IP Routing	Enabled

RESTORE FACTORY DEFAULTS

For information on restoring factory defaults, refer to the guide [Restoring an AOS Device to Factory Default](#) available online at <https://supportcommunity.adtran.com>.

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

[Configuring Layer 3 Switching in AOS](#)

[Configuring Hardware ACLs in AOS](#)

[Configuring DoS Protection in AOS](#)

[Configuring Ethernet Switch QoS and CoS in AOS](#)

[Configuring DHCP Servers in AOS](#)

[Configuring the Port Scheduler in AOS](#)

[Configuring Port Mirroring in AOS](#)

[Configuring Persistent Debug Logging in AOS](#)

[Understanding PoE and Power Management in AOS](#)

[Configuring NetVanta Switches for a VoIP Network](#)

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