



TECHNICAL SUPPORT NOTE

Introduction to the System Menu in the Web GUI

Featuring ADTRAN OS and the Web GUI

Introduction

This Technical Support Note shows the different options available in the System menu of the ADTRAN OS Web GUI.

System Menus

The System Menu contains several different screens that aid the user in configuring the system settings of the NetVanta.

System

- Getting Started
- System Summary
- Physical Interfaces
- Passwords
- IP Services
- DHCP Server
- Hostname / DNS
- LLDP

Getting Started

The first menu is the Getting Started menu. The Getting Started menu contains links to options that will need to be configured in order to get the NetVanta in an operational state. These include such items as VLAN, WAN, and Routing configuration.

The screenshot shows the NetVanta 1224R management utility interface. On the left is a navigation menu with categories: System, Switch, Router, Firewall, and Utilities. The 'Getting Started' menu item is highlighted. The main content area displays a welcome message and several configuration sections, each with a corresponding arrow pointing to a label on the right:

- VLAN Configuration**
 - [Step 1 - Create your VLANs](#) ← Create VLANs
 - The NetVanta 1224R ships with a single default VLAN. In order to separate the network into several "virtual" networks, go to the VLAN page to create additional VLANs.
 - [Step 2 - Add Ports to the VLANs](#) ← Add Ports to VLANs
 - By default all ports are members of the default VLAN. This step is used to change the membership of the ports.
- WAN Configuration**
 - [Step 1 - Routing](#) ← Configure WAN
 - The NetVanta 1224R can be equipped with a NIM to provide WAN connectivity. To configure WAN connectivity, [go to the "Physical Interfaces" page](#) and select the name of the interface to be configured. The page will lead you through the following steps to configure the interface:

 - Configure the physical interface
 - Select the encapsulation to a virtual interface
 - Configure the virtual interface
- Routing Configuration**
 - [Step 1 - Routing](#) ← Configure Routing
 - This step configures dynamic routing protocols, like RIP.
 - [Step 2 - Route Table](#)
 - This step creates static routes for the network.
- Save the Configuration**
 - [Save the Configuration](#) ← Save Changes
 - The configuration must now be saved to non-volatile memory to retain changes after a power cycle or reboot. The above link will take you to the "Configuration" page where you can then save the configuration.
- Advanced Getting Started Guide**
 - [Advanced Getting Started Guide](#) ← Advanced Configuration
 - The Advanced Getting Started Guide will assist you in setting up some advanced features like Firewall and Virtual Private Networks.

Advanced Getting Started

The Advanced Getting Started screen contains links to system configuration options such as DNS and DHCP. It also outlines steps to configure the NetVanta security functions.

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Basic Getting Started Guide > Advanced Getting Started Guide

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Default Gateway
Hostname / DNS
DHCP Server
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Switch
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Spanning Tree
MAC Forwarding
Class of Service
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IP Interfaces
Route Table
Routing
Firewall
Firewall Wizard
General Firewall
Security Zones
Utilities
Port Mirroring
Configuration
Firmware
Reboot Unit
Telnet To Unit

Welcome to the NetVanta Management Utility. This page outlines the basic steps needed to configure your NetVanta security appliance.

Firewall and System Configuration

[Step 1 - Configure System Parameters](#) ← Configure Time/Date

On the "System" page, configure the System time and date.

[Step 2 - Configure Hostname/DNS Information](#) ← Configure Hostname/DNS

Using this page, define a unique name for your NetVanta and set up a domain name. The domain name is used when hosts on the private network of the NetVanta use DNS queries to resolve domain names.

Also use this page to enter the DNS address (provided by your ISP) and enable DNS proxy. With DNS proxy enabled, your NetVanta acts as the DNS server for your local network.

[Step 3 - Run the Firewall Wizard](#) ← Firewall Wizard

The Firewall Wizard guides you through the following tasks:

- Enabling internet sharing (using NAT): The public interface IP address is used as the source for all outbound internet traffic.
- Configuring port-forwarding: Configure port-forwarding if you have servers (web, e-mail, etc.) on your private network that need to be accessed from the internet. Access to your private network from the internet will be blocked except for the servers that you set up here.

After running the Firewall Wizard, all computers on the private network will be able to access the internet.

[Step 4 - Save the Configuration](#) ← Save Changes

The configuration must now be saved to non-volatile memory to retain changes after a power cycle or reboot. The above link will take you to the "Configuration" page where you can then save the configuration.

Optional Configuration

[Step 1 - Configure the DHCP Server](#) ← Configure DHCP Server

The DHCP server of your NetVanta assigns IP addresses to other elements of your network. Use this page to configure the address ranges that the server will use. Disable the server if you do not need it.

[Step 2 - Configure Security Zones](#) ← Configure firewall Security Zones

Use the Security Zones page to configure advanced firewall options that cannot be configured in the Firewall Wizard.

[Step 3 - Save the Configuration](#) ← Save Changes

The configuration must now be saved to non-volatile memory to retain changes after a power cycle or reboot. The above link will take you to the "Configuration" page where you can then save the configuration.

System Summary

The System Screen allows the user to view general system information regarding the NetVanta. This includes the firmware version, the part number, serial number, and system uptime. System time and date may also be viewed (and set) by the user on this screen. Depending on your series of NetVanta product, a brief summary of each Ethernet interface is shown on this screen as well.

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- Interfaces
- Passwords
- IP Services
- DHCP Server
- Hostname / DNS
- LLDP
- Routing
- Route Table

Firewall

- Firewall Wizard
- General Firewall
- Security Zones

VPN

- VPN Wizard
- VPN Peers
- Certificates

Utilities

- Configuration
- Firmware
- Reboot Unit
- Factory Default
- Telnet To Unit

System Status

Firmware Version	08.01.00.E
Part Number	1202367L2
Serial Number	LBADTN000000000
System Uptime	21 hours 11 minutes 42 seconds
System Time	15:21:57 CST
System Date	12/21/2004
NTP Time Server	172.22.48.76
NTP Last Sync	19:00:34 PM CST on 12/20/2004

← System Information

Interface Eth 0/1

Link	Up - 100Mbps/full
Type	Static
IP Address	10.19.218.240
Subnet Mask	255.255.255.0
MAC Address (factory)	00:A0:C8:0E:74:E1

← Port Summary

Interface Eth 0/2

Type	No IP Address
MAC Address (factory)	00:A0:C8:0E:74:E2

Interface Eth 0/3

Link	Down
Type	PPPoE
User Name	
Service Name	
AC Name	
PPPoE State	Down
LCP State	Negotiating
IP State	Negotiating
IP Address	0.0.0.0
Peer IP Address	0.0.0.0
Primary DNS Server	0.0.0.0
Secondary DNS Server	0.0.0.0
MAC Address (factory)	00:A0:C8:0E:74:E3

Interface Eth 0/4

Type	Disabled
MAC Address (factory)	00:A0:C8:0E:74:E4

Configurable menu items such as system time and date are indicated by blue underlined text. The user may click on these items to make changes. Non-configurable items are shown in black text and are read-only status fields that may not be configured through this menu.

Interfaces/Physical Interfaces

This option lists all physical interfaces in the device. Such as Ethernet, T-1, DDS, etc and allows you to configure them.

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Physical Interfaces

This is a list of all the physical interfaces that are either physically tied to the product or connected via a plug-in module. View or edit the configuration of an interface by clicking its name.

Name	Logical Interface	Line Status	Type
eth 0/1	none	Up	Ethernet
eth 0/2	none	Interface Disabled	Ethernet
t1 1/1	fr 1	Up	WAN-T1
t1 2/1	fr 2	Up	WAN-T1

Click on a port will allow you to change it settings

Lists all physical interfaces in the router

Password

Passwords for various access methods may be configured in the Password Menu.

The screenshot shows the configuration interface for a NetVanta 1224STR device. On the left is a navigation menu with categories: System, Switch, Router / Bridge, Firewall, VPN, and Utilities. The main content area is divided into three sections:

- Add / Modify / Delete Users:** This section allows configuring users for protocols requiring username-based authentication. It includes fields for Username, Password, and Confirm Password, each with a descriptive note. An 'Add' button is present. Below is a 'Modify/Delete User' section showing a table with one user named 'admin' and a 'Delete' button.
- Service Authentication:** This section controls how services authenticate users. It includes a checkbox for 'AAA Mode Enabled'. Below are tabs for 'Enable Password', 'Telnet/SSH/Console', 'HTTP', 'FTP', and 'Radius Server'. The 'Enable Password' tab is active, showing radio buttons for 'Use remote RADIUS server' and 'Use password'. The 'Use password' option is selected, with fields for 'Password' and 'Confirm password'.

← If using the local user list for authentication, the user must specify usernames and passwords for each user in the list. Once usernames and passwords are created, they may be changed or deleted from the list at the bottom.

← The enable password needed to access the 'Enable' security level can be configured here.

← Passwords for Telnet/SSH/Console, HTTP, FTP, and also Radius authentication can be configured here

IP Services

SNMP, FTP, HTTP and HTTPS IP services may be enabled or disabled from this screen by checking the box next to the corresponding server.

The screenshot displays the NetVanta 1224STR Web GUI. The left sidebar contains a navigation menu with categories: System, Switch, Router / Bridge, Firewall, VPN, and Utilities. The main content area is divided into two panels. The top panel, titled "IP Services Enable/Disable", contains a table of services with checkboxes and port fields. The bottom panel, titled "Web Access Configuration", contains fields for "Inactivity Timeout" and "Max Sessions".

IP Services Enable/Disable	
The NetVanta has several IP services which can be enabled and disabled from this panel.	
SNMP Server: <input type="checkbox"/>	Check to enable the NetVanta's SNMP server.
FTP Server: <input type="checkbox"/>	Check to enable the NetVanta's FTP server.
TFTP Server: <input type="checkbox"/>	Check to enable the NetVanta's TFTP server.
HTTP Server: <input checked="" type="checkbox"/>	Disabling the HTTP server will cause the basic web interface to stop functioning.
HTTP Server Port: <input type="text" value="80"/>	The HTTP Server runs on this TCP Port.
HTTPS Server: <input checked="" type="checkbox"/>	Disabling the HTTPS server will cause the secure web interface to stop functioning.
HTTPS Server Port: <input type="text" value="443"/>	The HTTPS Server runs on this TCP Port.

Web Access Configuration

The NetVanta web configuration interface has a maximum number of connections and automatically logs a user out after a period of inactivity.

Inactivity Timeout: <input type="text" value="600"/>	Number of seconds of inactivity before user is asked to re-login to the web interface. Default is 600. (Range 10-36400)
Max Sessions: <input type="text" value="100"/>	The maximum number of concurrent connections to the web interface. Default is 100. (Range 0-100)

If you are logged into the unit through the Web GUI, disabling the HTTP server will cause you to lose your connection.

DHCP Server

In order for the NetVanta to act as a DHCP server, the user must create a DHCP server pool, which the NetVanta will use to assign IP address information to requesting devices.

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Add / Modify / Delete DHCP Server Pool

Create a pool for each subnet containing DHCP clients. A pool must also be created for each host requiring a reserved (fixed) IP address.

Add New DHCP server pool

Pool Name: *For example, use "Local PCs" for a subnet or "Web Server" for a host reservation.*

Modify/Delete a DHCP Server Pool

To view or modify an existing DHCP server pool, click the link in the desired row.

Name	Subnet/Host	IP Address	
TEST	subnet	10.19.218.0/24	<input type="button" value="Delete"/>
MARK LAPTOP	host	10.19.218.22	<input type="button" value="Delete"/>

← Add/Modify DHCP Server Pool

(Optional) Add / Delete DHCP Excluded Ranges

Exclude ranges of IP addresses reserved for hosts with static IP settings. The server will not assign IP addresses from the start IP address through the end IP address.

Add an Excluded Range

Start IP Address: . . . *Starting with this IP address, the server will not assign IP addresses to DHCP clients.*

End IP Address: . . . *If an end IP address is not entered, only the start address will be excluded. (Optional)*

Excluded Ranges

Start Address	End Address
There are no excluded ranges in the DHCP database.	

← Define DHCP addresses to exclude

Current Leases

Below is a list of all currently maintained DHCP leases and relevant information.

Showing 0 to 3 of 3

Name	MAC Address	IP Address	Expires
ICP	00:A0:C8:02:DA:91	10.19.218.1	Dec 21 2004 16:52:58
gooeyp2	00:0F:1F:BB:73:6D	10.19.218.22	Dec 22 2004 08:29:45
TSRW-1	00:10:A4:7E:17:44	10.19.218.2	Dec 22 2004 11:45:53

← Current Leases

DHCP Server Pool

The DHCP server pool is created to define the network, default gateway, DNS server, WINS server, and lease time period to be assigned to DHCP clients.



- ← Specify DHCP Server address lease range
- ← Configure a fixed IP address for a single host
- ← Specify DHCP Servers parameters that will be assigned to the DHCP clients

Hostname/DNS

Hostname and DNS options are configured on this screen.

The screenshot shows the NetVanta 3305 configuration interface. The left sidebar contains a navigation menu with categories: System, Router / Bridge, Firewall, VPN, and Utilities. The main content area is titled "DNS Setup" and includes the following sections:

- DNS Setup:** A form for configuring the hostname and domain name. It includes fields for Host Name (3305-2), Domain, Primary DNS IP Address, and Secondary DNS IP Address. There are checkboxes for "Enable DNS Lookup" (checked) and "Enable DNS Proxy" (unchecked). Descriptive text explains the purpose of each field.
- Add / Modify / Delete DNS Host Entries:** A section explaining that the NetVanta can act as a DNS Server. It includes an example: "Host: **fileserver** IP: **10.10.10.2** will be resolved as **fileserver**".
- Add a New DNS Host Entry:** A form for adding static DNS entries, with fields for Host and IP Address.
- Modify/Delete Entries:** A section explaining that this is a list of all hosts that the DNS server will resolve. It includes a table with columns for Host Name, IP Address, and Type. The table is currently empty, displaying the message "There are no hosts in the DNS Server Database".

Annotations on the right side of the image point to specific elements:

- An arrow points to the Host Name field with the text: "The Hostname of the Netvanta and DNS information may be changed under the DNS Setup menu."
- An arrow points to the "Enable DNS Lookup" checkbox with the text: "DNS lookup may be enabled in order to allow DNS translations."
- An arrow points to the "Add a New DNS Host Entry" section with the text: "Allows you to enter static DNS entries for LAN devices"

LLDP

LLDP allows the NetVanta to see other devices to which it is connected, such as another NetVanta across a WAN link.

The screenshot shows the NetVanta 3305 configuration interface. On the left is a navigation menu with categories: System, Router / Bridge, Firewall, VPN, and Utilities. The main content area is titled 'LLDP Setup' and contains three sections: 'LLDP Setup', 'Enable LLDP on Specific Interfaces', and 'LLDP Neighbors'. Annotations with arrows point to specific parts of the interface.

LLDP Setup

These parameters modify how often Link Layer Discovery Protocol (LLDP) packets are sent out.

Transmit Interval: Valid values are 5-32768 (seconds).

Minimum Transmit Interval: Valid values are 1-8192 (seconds).

TTL Multiplier: Valid values are 2-10.

← LLDP packet settings

Enable LLDP on Specific Interfaces

Use this form to enable the ability to transmit LLDP updates, receive LLDP updates or both.

Interface Name	TX Count	RX Count	TX	RX	TX/RX
eth 0/2	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
fr 2.200	20898	20897	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
eth 0/1	20903	9243	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
fr 1.100	20898	20898	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ppp 1	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

← Interfaces to send and receive LLDP packets

LLDP Neighbors

This is a list of Ethernet Neighbors learned through LLDP.

Name	Platform	Local Interface	Unit Access
3305-1	NetVanta 3305	fr 2.200	N/A
1224STR	NetVanta 1224STR	eth 0/1	<input type="button" value="Browse"/> <input type="button" value="Telnet"/>
3305-1	NetVanta 3305	fr 1.100	N/A

← Devices found via LLDP