NETSIGHT™ SWITCH/TOPOLOGY MANAGER V1.2

Management to Align the Network with the Business
NetSight Switch/Topology Manager is a sophisticated configuration tool for all Enterasys Networks™ switches and other 802.1Q switching devices. This highly graphical, standards-based application lets you quickly create VLANs and assign business classification policies over the entire switched infrastructure for security, QoS and bandwidth provisioning—all from a single workstation! By applying rules and access privileges to the applications most important to the business, customers can ensure that only authorized users receive critical, confidential information on time, every time.

New features for V1.2!
— Supports dynamic egress, weighted fair queuing, and shared learning constraints

Application-aware management solution
— Implement application-based VLANs to deliver ERP, SAP, data warehousing, financial data or VoIP to authorized users

Virtual workgroups based on business demands
— Create workgroups based on changing strategic goals
— VLAN broadcast control limits broadcasts only to those ports in the specific workgroup, reducing network traffic and conserving bandwidth

Decision-enabled connectivity for smarter management
— Assign access privileges and priorities based on individual user needs or the application that’s most important to the business
— Preserve network security while ensuring optimum availability

Ease of network administration
— Control of port-based VLANs, protocol VLANs, priority, and modification of ingress and egress filtering using easy graphical interface
— Map entire switch fabric through comprehensive topology views
— Discover and store all switch fabric information in the directory server using seed discovery feature

802.1Q standards-based management
— Manage multivendor 802.1Q devices from a single workstation

Advanced Network Configuration Tools
NetSight Switch/Topology Manager’s easy-to-use graphical interface allows you to configure and manage your entire network infrastructure—from a single workstation.

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NetSight Switch/Topology Manager is the first standards-based VLAN management product to fully support the 802.1Q bridge MIBs. An integral part of Enterasys’ enterprise management and security solutions, NetSight Switch/Topology Manager allows customers to configure and manage their 802.1Q switches, ports, and VLANs on the network via an easy-to-use graphical interface. All 802.1Q administrative tasks can be accomplished without ever leaving the workstation. The NetSight Switch/Topology Manager reduces the configuration burden of IT staffs by enabling configuration to be completed within hours instead of days. It eliminates the need to configure each device via local management and makes frequent trips to the wiring closet to regroup users a thing of the past. The NetSight Switch/Topology Manager also includes Rate Limiting and QoS features critical to the success of today’s e-business infrastructures.
Highly Graphical User Interface
The NetSight Switch/Topology Manager’s main view is the window from which all 802.1Q VLAN administration is initiated. The NetSight Switch/Topology Manager’s main window is divided into a left panel Tree View and a right panel Details View. The Tree View displays a hierarchical representation of the domains in the network and their devices and VLANs. The Details View and tabbed pages display detailed information about the item selected in the Tree View. Menus at the top of the view, as well as pop-up menus available from most ancillary views, provide access to specific administrative tasks. Status fields at the bottom of the view provide error and status information.

Flexible Management at the VLAN, Switch and Port Level
**VLAN management** allows a network administrator to quickly create, configure, and delete 802.1Q VLANs in a domain. Once a VLAN has been created, it can easily be assigned to a switch or switch port using the drag-and-drop feature or the Assign PVID menu option. End systems connected to a port become members of the VLAN to which the port has been assigned. The VLAN Properties window allows the administrator to view and, in some cases, change the operating characteristics of any 802.1Q VLAN in a domain.

**Switch management** allows a network administrator to create, configure, and delete all 802.1Q switches in a domain. The Switch Properties window provides the administrator detailed information about the switch and the ability to change some operational characteristics.

**Port management** is available from the Port Properties window and the main window tabbed pages. The Port Properties window allows a network administrator to view and, in some cases, change the operational characteristics of a port. The General tab of the Port Properties window provides general information about the port. The 802.1Q tabbed page displays and lets you configure port properties specific to the 802.1Q operation: Administrative Type (Hybrid, QTrunk, DTrunk), Ingress Filtering (Enable, Disable), Acceptable Frame Types (Accepted Tagged, Accept All Frames), Enable/Disable on GVRP and GMRP, and set Default Priority (0-7).

Global Configuration Wizards for Application-Aware Management
You can use the Priority Classification Global Configuration Wizard to create a priority classification rule and add it to all the ports or multiple ports in a domain. This lets you prioritize certain types of traffic. A business that runs SAP traffic and considers this the most important application on its network is a good example. The administrator would give IPX SAP traffic a priority 7, which is the highest priority on the network, ensuring that it would get through over lower priority applications.

In addition, the Egress List Global Configuration Wizard lets you add or remove a VLAN from the Egress Lists on all the ports or multiple ports in a domain. Servers are a good example for the use of the Egress List. VLANs can be configured in the Egress List so that all users can communicate with the servers, but the users will not be able to communicate with each other.

**QoS and Rate Limiting for Mission-Critical Environments**
Rate limiting lets an administrator set limits on any ingress or egress ports in their switch fabric. This can control a particular server or the bandwidth going to servers or groups of users. QoS provides application control or user control in a switch fabric. With QoS defined over multiple Layers (Layer 2, 3 and 4), you can ensure that applications are received on time and fully intact from the core to the edges of your switch fabric.
**User-Defined Security**
With the NetSight Directory Server you can set up security rules governing how applications are used on the network on a per-user basis. You can give read or read/write access to any user you set up in the directory. For example, Joe Smith can be set to have read access to the Switch Manager application, while Jane Doe has read/write access.

**Simplified Discovery**
Using Discovery Protocol, all Enterasys switches that are connected together in a switch fabric can be discovered using one IP address of a switch. Also an IP range discovery can be used to discover third-party vendor switches in the switch fabric.

**At-a-Glance Topology View**
The Topology Map application graphically represents the devices and connections in the switch fabric. This allows the administrator to see how switches are connected into the fabric, and monitor the status of the devices and connections. Searches can also be performed by IP address or name.

**802.1Q Support for Extended Control**
Multivendor support is provided through the IETF 802.1Q bridge MIB, and 802.1Q 2674 for VLAN and priority control. The NetSight Switch/Topology Manager supports other vendors’ switches and provides egress list, ingress list, GARP protocol, VLAN and priority support features.

**Broadcast Control Saves Bandwidth**
VLAN broadcast control restricts broadcast traffic. Broadcasts will not be flooded to ports that do not belong to the VLAN. Only the ports on the broadcasted VLAN will receive the broadcast, greatly conserving available bandwidth on the network.

**Exclusive Global Settings Save Time**
The Global Configuration Wizards distinguish the NetSight Switch/Topology Manager from other vendors’ management solutions. The easy-to-use wizards let you set up multiple switches from one view, without configuring each switch individually. To configure a global setting, simply select an item from the menu, enter any required parameters and select applicable switches and/or ports.

**End-User Support**
End-user support is provided on switches that supply the protocol, user address and MAC address to the NetSight Switch/Topology Manager. This information is stored in the directory server so the administrator can locate a user by switch and port using the Find and Global Find features. NetSight Switch/Topology Manager also provides the ability to manually add or remove end systems and aliases on a port. This is useful for silent printers or other network resources that do not broadcast on the network.

**Discard VLAN**
Discard VLAN provides the ability to set protocols or applications that the user does not want to see on their network to a Discard VLAN. For example, if there is no AppleTalk protocol on a network, an administrator can create a discard VLAN that puts all the AppleTalk traffic into the Discard VLAN, and no AppleTalk traffic will be sent/received on this port.

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**Use NetSight Switch/Topology Manager with these Enterasys Networks Solutions:**
- Matrix E7
- Matrix E6
- Matrix E5
- SmartSwitch 9000
- Vertical Horizon Standalone and Stackable Switch
System Requirements

The following is the minimum hardware configuration for NetSight Switch/Topology Manager in a Windows Environment:

- Microsoft Windows NT 4.0 (Service Pack 5) Workstation
- A dedicated Intel Pentium™ processor
- 400 MHz clock speed minimum; 550 MHz recommended
- 128 MB RAM minimum; 256 MB recommended
- 200 MB virtual memory minimum; 400 MB recommended
- A Network Interface Card capable of running NDIS or ODI network drivers in conjunction with a TCP/IP stack
- An SVGA color monitor and an SVGA graphics card set to at least 16 colors, and capable of supporting an 800x600 display
- 300 MB hard drive space (approximately 280 MB for the software files and 80 MB for the documentation set)
- A CD-ROM drive (for hard-copy installation media)
- A mouse

The following is the minimum hardware configuration for NetSight Switch/Topology Manager in a Solaris Environment:

- Solaris 2.6 or 2.7 (The recommended patches for Solaris 2.6 and 2.7 are listed in Table 1 and Table 2 of the installation guide)
- Ultra 5 minimum; Ultra 60 recommended
- 128 RAM; 512 RAM recommended