

NetSight® Console for Use with The MESH Control Network



The NetSight® Console from Enterasys™ provides a collection of tools that lets you monitor the status of the network devices (such as switches), aids in discovering and documenting the network hardware functional status, and automates troubleshooting tasks on The Mesh control network. It is designed to facilitate specific network monitoring tasks while sharing data, and providing common controls and consistent user interface.

FEATURES

- ▶ Client and Server applications enable distributed management of The Mesh control network; graphical user interfaces (GUIs) provide graphical representations of one or more network devices along with their statuses
- ▶ Provides FlexViews, which are pre-defined and customizable views of the polled data of the network devices. New FlexViews, including FlexView Properties editor, can be created
- ▶ Compass search tool allows the administrators to search for information about end users or workstations
- ▶ Alarms and Events help the administrators with the number of situations that demand their attention

OVERVIEW

The NetSight® Console from Enterasys™ is offered for use with The Mesh control network as a network monitoring tool which enables Plant Managers, Process Engineers, and System Managers to have a more in-depth view of The Mesh network. The NetSight Console Client and Server applications provide a suite of network monitoring tools to facilitate the tasks, such as monitoring the switch status, documenting network configuration, and automating troubleshooting tasks on The Mesh control network. These Client and Server applications allow you to monitor your network from a single workstation or, for networks of greater complexity, from one or more client workstations. The NetSight Console is designed to facilitate specific network management tasks while sharing data, and providing common controls and a consistent user interface. The NetSight Console's GUI provides a graphical representation of each network device and its status.

Color-coded arrows provide a visual indication of the status of the network device, up or down. A set of system device groups collect device information by IP, Location, Contact, Chassis, and product families (such as Matrix™, or SecureStack™). Administrators can create their own groups and organize them to view the information. For example, an administrator can define a group for a building, or a sub-group within the building as a floor or even another sub-group for an enclosure.

A single NetSight Console server can host up to 50 network devices. For networks larger than 50 network devices, additional NetSight Console servers are required. These additional servers should monitor individual compartments of the network. For a complete view of the network, the main NetSight server logs into the remaining servers as a client to view switch statuses or updates. This is illustrated in Figure 1 and Figure 2 below.

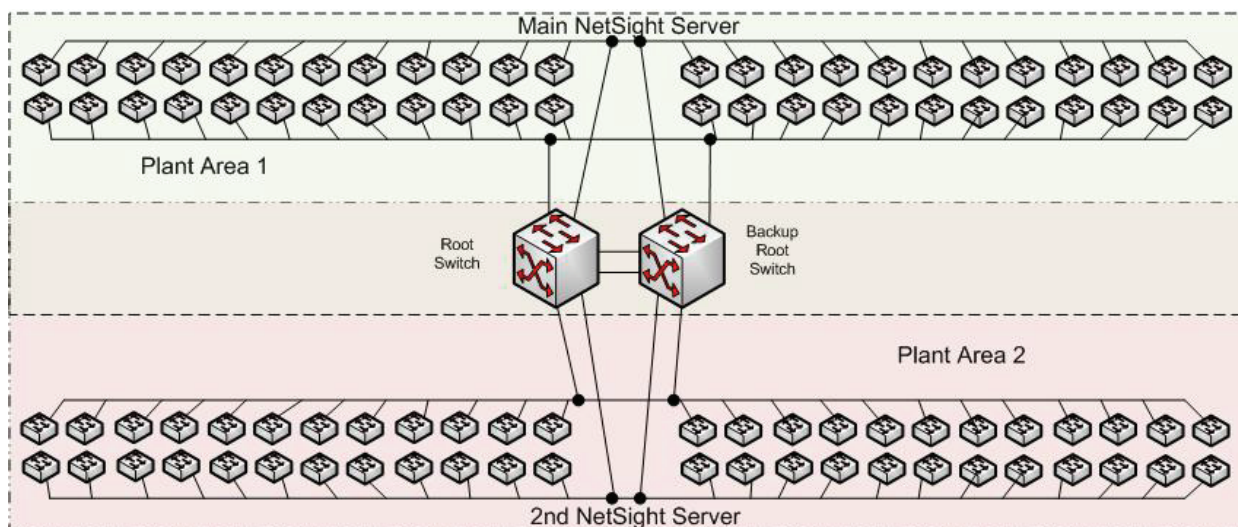


Figure 1. Network Compartmentalizing for Two NetSight Console Servers

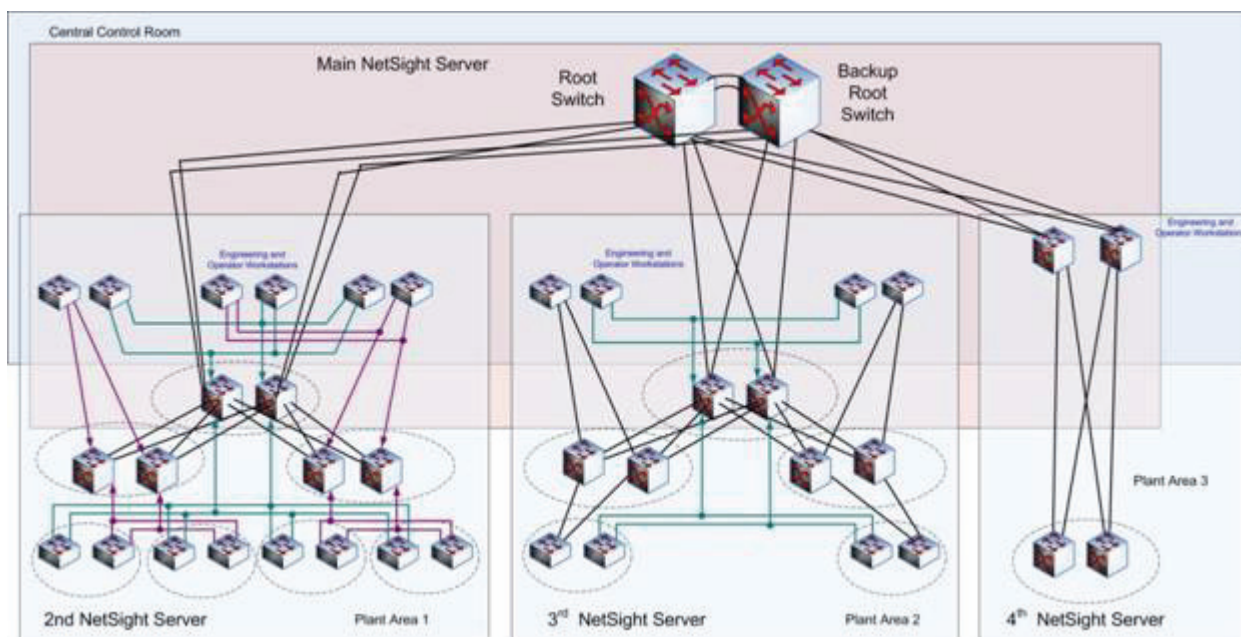


Figure 2. Network Compartmentalizing for Main NetSight Console Server and Other Servers

The NetSight Console uses SNMP queries to retrieve data from the switches.

The NetSight Console Server or Client application is recommended to be installed on a dedicated I/A Series workstation if workstation performance is critical. Refer to Hardware Specifications for sizing guidelines and hardware requirements for the application.

STANDARD NETSIGHT CONSOLE FUNCTIONALITY FOR USE WITH THE MESH NETWORK

FlexViews

FlexViews are pre-defined, customizable views of the polled data of network devices. Multiple FlexViews are available with a range of search, filter, and sort features to control the data displayed. FlexViews are also capable of presenting information as a pie graph, bar graph, or line graph and can be exported in a variety of formats, such as .csv or .html.

Device Manager

The Device Manager provides status and tools to help administrators manage the devices (such as switches, blades or Mini-GBICs) in the network.

Topology Manager

The Topology Manager makes it easier for administrators to visualize the network by generating views that demonstrates how the network devices are logically organized on the network. Topology Manager uses graphical elements to illustrate the physical connectivity of the switch and different kinds of links, such as root ports, active links, and root bridges.

Discovery Tool

The Discovery Tool populates the NetSight Console database by identifying network devices based on subnet masks or IP ranges and sorting them based on system-created device groups.

MIB Tools

MIB tools enable viewing of network device Management Information Databases (MIBs). Administrators can use MIB Tools window to contact a device, view its supported MIBs, and query the device for MIB values.

Compass Search Tools

Compass feature provides a customizable search tool, which returns a wide variety of information on the network and allows its users to assist in network administration.

Alarms and Events

The Alarms and Events feature provides network error reports and alerts. All alarms and events triggered behaviors can be customized, and can be exported, printed, searched, filtered, and sorted. NetSight Console also provides configuration tools that let administrators add and customize the Alarm and Event tabs and let them trigger e-mail notification or launch an application for certain alarms, events, and traps.

NOTE

The NetSight Console tools should never be used instead of the I/A Series Switch Configurator Application Software (SCAS) for network configuration.

SPECIFICATIONS

Supported Operating Systems

- ▶ Windows Server® 2008 R2 Standard
(English version - 64-bit)
- ▶ Windows 7® (English version - 64-bit)
- ▶ Windows Server® 2003 w/ Service Pack 2
(English version - 32-bit only)
- ▶ Windows XP® w/ Service Pack 2 or 3 (English
version - 32-bit only)

Hardware Requirements

NETSIGHT CONSOLE SERVER

(Includes NetSight Console software Server and Local Client) P4-2.66 GHz, 4 GB RAM, free disk space of 1 GB (application install requirement), additional disk space required for switch SysLog, Trap, and Console historical data logging.

NETSIGHT CONSOLE CLIENT

P4-2.4 GHz, 2 GB RAM, free disk space of 100 MB (user's home directory requires 50 MB for file storage)

Supported Web browsers: Internet Explorer version 6 and 7 and 3.0 Java Runtime Environment (JRE) 1.5 or higher.

NOTE

Refer to the appendix "P-Code Cross Reference Guide" in *NetSight® Console for The MESH Control Network* (B0700EJ) to determine which I/A Series workstations are suitable for the NetSight Console Server and/or Client.

Refer to the chapter "Sizing Guidelines" in *NetSight® Console for The MESH Control Network* (B0700EJ) to determine if a dedicated I/A Series workstation is required for the NetSight Console Server and/or Client application.

