EcoStruxure™

Foxboro DCS

NetSight Suite for Use with The Foxboro DCS Control Network

PSS 41S-2NETSITE

Product Specification

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www.schneider-electric.com

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Legal Information

Overview

The NetSight™ Suite from Extreme Networks™ provides a collection of tools that helps you monitor the status of the network devices (switches), discover and document the network hardware functional status, and troubleshoot tasks for the EcoStruxure™ Foxboro DCS™ Control Network (Control Network). NetSight Suite is designed to facilitate specific network monitoring tasks while providing a historian for network messaging.

The NetSight Suite from Extreme Networks is offered for use with the Control Network as a network monitoring tool. NetSight Suite enables Plant Managers, Process Engineers, and System Managers to have a more in-depth view of the Control Network.

The NetSight Suite Client and Server applications provide a suite of network monitoring tools to facilitate tasks, such as monitoring the switch status, documenting network configuration, and automating troubleshooting tasks on the 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 Suite is designed to facilitate specific network management tasks while sharing data, and providing common controls and a consistent user interface.

The NetSight Suite's user interface 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, where up denotes online and down denotes offline. A set of system device groups collects device information by IP address, location, contact, chassis, and product families.

Administrators can create groups and organize them to view specific information. For example, an administrator can define a group for a building, a sub-group within the building as a floor, and even another sub-group for an enclosure.

Depending on your needs, a single NetSight Suite server can monitor networks ranging from small sizes to extremely large sizes. For information on the license sizes available for monitoring the Control Network, refer to the *part numbers table, page 8*.

The NetSight Suite uses SNMP queries to retrieve data from the switches. Refer to *hardware requirements, page 7* for sizing guidelines and hardware requirements for the application.

Features

- Client and Server applications enable distributed management of the Control Network; graphical user interfaces (GUIs) provide graphical representations of one or more network devices along with their statuses.
- FlexViews provide pre-defined and customizable views of the polled data of the network devices. New FlexViews, including a FlexView Properties editor, can be created.
- Compass search tool allows administrators to search for information about end users or workstations.
- Alarms and Events help administrators identify situations requiring action.

Standard NetSight Suite Functionality for Use with the Foxboro DCS Control 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 can present information as a pie graph, bar graph, or line graph and can be exported in a variety of formats, including CSV and 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 demonstrate how the network devices are logically organized on the network. The 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 Suite database by identifying network devices based on subnet masks or IP ranges and sorting them based on system-created device groups.

MIB Tools

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

Compass Search Tool

The Compass Search Tool is a customizable search tool that 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 detected error reports and alerts. The alarms and events triggered behaviors can be customized, and can be exported, printed, searched, filtered, and sorted. NetSight Suite also provides configuration tools that let administrators add and customize the Alarm and Event tabs and let them launch an application for certain detected alarms, events, and traps.

NOTICE

POTENTIAL DATA LOSS

Do not use the NetSight Suite tools for network configuration. Foxboro DCS Switch Configurator Application Software (SCAS) is the only approved network configurator tool. The Control Network does not function correctly within the system if you do not use SCAS to configure the network.

Failure to follow these instructions can result in data loss.

Specifications

Operating System Requirements	• Windows 10® (English version - 64-bit) • Windows® Server® 2008 R2 Standard (English version - 64-bit) • Windows 7® (English version - 64-bit) **NOTE:** For more information on Windows 10 machine installations, see *NetSight Console for the Foxboro DCS Control Network* (B0700EJ).
Hardware Requirements NetSight Suite Server NetSight Suite Server	Includes the NetSight Suite software Server and Local Client, and needs at least: • P4-2.66 GHz (For more information, refer to Table 1-1 (NetSight Product Entitlement License Key and Hardware Requirements) in *NetSight® Suite for The Foxboro DCS Control Network* (B0700EJ)) • 4 GB RAM • 1 GB free disk space (to install the application) • Additional disk space for switch SysLog, Trap, and Console historical data logging
Hardware Requirements NetSight Suite Client	Needs at least: • P4-2.4 GHz Dual Core • 2 GB RAM • 100 MB free disk space (the user's home directory needs 50 MB for file storage) • Supported web browsers: Internet Explorer® 10 or 11, and Java Runtime Environment (JRE™) 8.0 or higher Refer to *NetSight® Suite for The Foxboro DCS Control Network* (B0700EJ) to determine which Stations are suitable for the NetSight Console Server and/or Client. **NOTE:** NetSight Suite is not supported on virtual machines or V90/V91 Foxboro DCS Virtualization Servers.

Part Numbers

This table lists the license sizes available for monitoring the Control Network. Select a size that is larger than the total number of switches you want to monitor within the system.

Extreme Networks Management Application, NetSight Console 6.3.0.168 License for Control Software Foxboro DCS Control Network

Number of Devices	Part Number
10	J0202AD
25	J0202AE
50	J0202AF
100	J0202AG
250	J0202AH
500	J0202AJ
Unlimited	J0202AK

WARNING: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.p65warnings.ca.gov/.

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As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

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