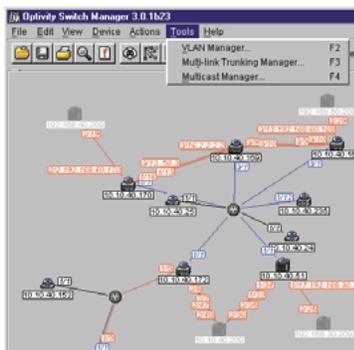# Optivity Switch Manager

Optivity Switch Manager Benefits

- Reduces network administration costs

- Reduces time to deploy network devices

- Uses intuitive GUI for simplified device configuration

- Provides real-time configuration of network devices

- Presents system-level view of network

Configuring switches with text command strings is often complicated, non-intuitive and prone to error. In contrast, using a point-and-click graphical user interface (GUI) tool to configure and monitor a network system simplifies network administration and greatly reduces the cost of ownership.

Figure 1: Optivity Switch Manager main screen.

Nortel Networks* Optivity* Switch Manager is designed to effectively configure and manage switches in an enterprise data network. It simplifies the set-up of the Nortel Networks Passport* 8000 Routing Switch series, the Passport 1000 Routing Switch series, the Nortel Networks Business Policy Switch 2000, and the Nortel Networks BayStack* 350, 410, 420, and 450 switches.

Optivity Switch Manager is a real-time graphics SNMP tool that allows network administrators to rapidly configure networking devices either remotely or onsite using a stand-alone client.

NORTEL NETWORKS™

A dramatic improvement over command line interface (CLI) applications that require complex command strings, this intuitive Java-based solution streamlines the configuration process by using a GUI that displays data in easy-to-view windows.

Optivity Switch Manager allows network managers to import, export or modify individual port settings, default gateways, SNMP traps, VLAN configurations, and product and image files, which simplify the set-up of multiple devices.

This easy-to-use application expands the pool of administrators capable of performing complex network configurations. It provides a system-level view of a network and it shows network outages and physical connectivity between devices. Optivity Switch Manager can also automatically discover a new network device using the Auto Discovery Protocol.

Optivity Switch Manager is comprised of seven "sub-manager" applications for managing Virtual Local Area Networks (VLANs), Multi-Link Trunks, multicast configurations, log files, switch configurations and passwords and community strings. These specialized features provide a concise, easy-to-use interface to enable specific management functionality.

VLAN Manager

The VLAN management tool allows administrators to configure and manage port-, protocol-, subnet-, or Mac-based VLAN configurations across individual or multiple switches in a network. It also displays Spanning Tree groups as folders in easy-to-view tabular format.

Multi-Link Trunk Manager

Multi-Link Trunk Manager graphically displays Multi-Link Trunks and Multi-Link Trunk membership information. The manager allows Multi-Link Trunk membership information to be easily created, displayed and edited through the graphical interface and ensures that both sides of the Multi-Link Trunk are set up correctly.

Multicast Manager

This feature manages multicasting functions across all nodes discovered by Optivity Switch Manager. The Multicast Manager maintains forwarding path and active member information for all devices in a group and displays it in a tabular format.

Log Manager

Log Manager allows a network administrator to open and analyze switch log files on the management station. The data can then be filtered or sorted based on timestamp, severity, code, task and log description.

Figure 2:   VLAN Manager.
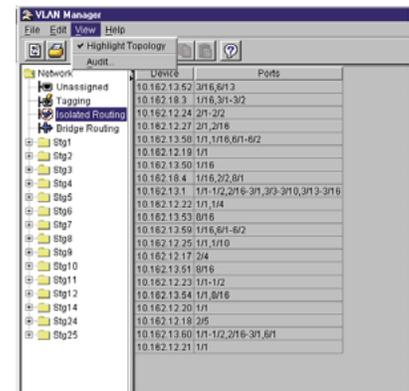
Device Manager

This new version of Nortel Networks Device Manager combines the same look and feel of previous versions with Java-based OS platform independence. It allows a network administrator to remotely configure any port or turn on any feature in real-time with the simple click of a mouse.

Security Manager

The Security Manager tool manages access rights for the Passport 8000 devices. This manager allows administrators to set, change, and synchronize passwords and security features for CLI access, Web access, SNMP access, RADIUS properties, and access policies. By grouping network devices together to form security domains, common passwords and access policies can be applied to an entire domain quickly and efficiently.

This easy-to-use application
expands the pool of
administrators capable of performing
complex network configurations.

File and Inventory Manager

This feature provides access to information about the devices discovered by Optivity Switch Manager, including image and configuration files. Administrators can now remotely upload and download image and configuration files directly to and from network devices. Bulk upgrading of an image file to multiple devices provides an easy first step in getting a new network on-line quickly. File and Inventory Manager contains a System Default Editor for configurations as well as a centralized inventory of hardware devices in the network

IP Configuration Management

Optivity Switch Manager's graphical user interface reduces manual typing of command line interface messages and eliminates costly delays due to errors from incorrect configurations. Training costs for new users and day-to-day operational costs for routine tasks are reduced with Optivity Switch Manager's point-and-click simplicity.

Java Technology

Optivity Switch Manager is a Java-based client/server application that supports UNIX and Windows operating systems. The underlying Java technology eliminates the need for customized windows applications or dedicated workstation configurations.

Figure 3: Network View.
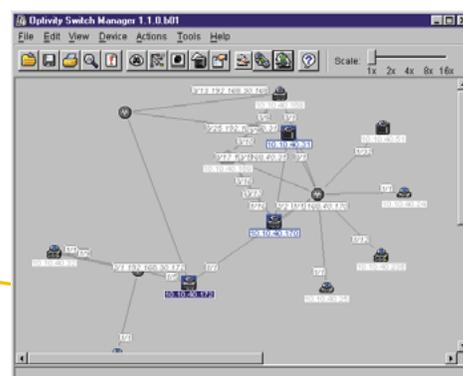
System Requirements
Table 1:   Technical specifications for Optivity Switch Manager.

Software Requirements	
Passport 8600 Routing Switch	Requires v3.0, v3.0.1, v3.0.2, v3.1.x, v3.2.0.2, v3.2.1.0, v3.2.2
Passport 8100 Edge Routing Switch	Requires v2.0, v2.0.1.1, v3.1x, v3.2.0, v3.2.0.2, v3.2.1.0, v3.2.1.0, v3.2.2
Passport 1000 Routing Switch	Requires v2.0.5, v2.0.5.6, v2.0.5.7, v2.0.7.2, v2.0.7.3, v2.0.7.4, v2.1.0, v2.1.3
BayStack 350/410/450	Requires v3.0, v3.1, v4.1
BayStack 420	Requires v1.1
Business Policy Switch 2000	Requires v1.0, v1.0.1, v1.2, v2.0
Hardware Requirements	
Windows 95, 98, 2000, NT	Requires Pentium 300Mhz or higher; 128 MB RAM
Unix - Solaris v5.6, v5.7, v5.8	Sparc 20; 128 MB RAM

Ordering Information
Table 2:   Ordering information for the Optivity Switch Manager.

Order Number	Description
DS1410005-2.0	Optivity Switch Manager 2.0 Software

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