

hp StorageWorks

edge switch 2/24 flexport upgrade instructions

Part Number: AA-RTDHB-TE/958-000286-000

Second Edition (January 2003)

These instructions describe how to install the 8-flexport upgrade kit
in an Edge Switch 2/24.



i n v e n t

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Contents

About this Guide

Intended Audience	v
Related Documentation	v
Document Conventions	vi
Symbols in Text	vi
Symbols on Equipment	vii
Rack Stability	viii
Getting Help	viii
HP Technical Support	viii
HP Website	ix
HP Authorized Reseller	ix

Flexport Upgrade Instructions

Unpacking and Inspecting the Optics	1
Upgrading the Edge Switch 2/24	2
Upgrading to 16 Ports	2
Upgrading to 24 Ports	2
Obtaining and Configuring Feature Key	3
Obtaining a Feature Key	3
Configuring the Feature Key	4

About this Guide

This installation guide provides information to help you:

- Install the 8-flexport upgrade kit for the HP StorageWorks Edge Switch 2/24.
- Contact technical support for additional assistance.

Intended Audience

This book is intended for use by administrators who are experienced with the following:

- Fibre Channel technology
- HP StorageWorks™ Fibre Channel Switches

Related Documentation

For a list of corresponding documentation, see the Related Documents section of the *HP StorageWorks Edge Switch Release Notes*.

For the latest information, documentation, and firmware releases, please visit the HP StorageWorks website:

<http://h18006.www1.hp.com/storage/saninfrastructure.html>

For information about Fibre Channel Standards, visit the Fibre Channel Industry Association website, located at <http://www.fibrechannel.org>.

Document Conventions

The conventions included in [Table 1](#) apply.

Table 1: Document Conventions

Element	Convention
Cross-reference links	Blue text: Figure 1
Key names, menu items, buttons, and dialog box titles	Bold
File names, application names, and text emphasis	<i>Italics</i>
User input, command names, system responses (output and messages)	Monospace font COMMAND NAMES are uppercase unless they are case sensitive
Variables	<i>Monospace, italic font</i>
Website addresses	Sans serif font (http://thenew.hp.com)

Symbols in Text

These symbols may be found in the text of this guide. They have the following meanings.



WARNING: Text set off in this manner indicates that failure to follow directions in the warning could result in bodily harm or loss of life.



CAUTION: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or data.

IMPORTANT: Text set off in this manner presents clarifying information or specific instructions.

NOTE: Text set off in this manner presents commentary, sidelights, or interesting points of information.

Symbols on Equipment



Any enclosed surface or area of the equipment marked with these symbols indicates the presence of electrical shock hazards. Enclosed area contains no operator serviceable parts.

WARNING: To reduce the risk of injury from electrical shock hazards, do not open this enclosure.



Any RJ-45 receptacle marked with these symbols indicates a network interface connection.

WARNING: To reduce the risk of electrical shock, fire, or damage to the equipment, do not plug telephone or telecommunications connectors into this receptacle.



Any surface or area of the equipment marked with these symbols indicates the presence of a hot surface or hot component. Contact with this surface could result in injury.

WARNING: To reduce the risk of injury from a hot component, allow the surface to cool before touching.



Power supplies or systems marked with these symbols indicate the presence of multiple sources of power.

WARNING: To reduce the risk of injury from electrical shock, remove all power cords to completely disconnect power from the power supplies and systems.



Any product or assembly marked with these symbols indicates that the component exceeds the recommended weight for one individual to handle safely.

WARNING: To reduce the risk of personal injury or damage to the equipment, observe local occupational health and safety requirements and guidelines for manually handling material.

Rack Stability



WARNING: To reduce the risk of personal injury or damage to the equipment, be sure that:

- The leveling jacks are extended to the floor.
 - The full weight of the rack rests on the leveling jacks.
 - In single rack installations, the stabilizing feet are attached to the rack.
 - In multiple rack installations, the racks are coupled.
 - Only one rack component is extended at any time. A rack may become unstable if more than one rack component is extended for any reason.
-

Getting Help

If you still have a question after reading this guide, contact an HP authorized service provider or access our website: <http://thenew.hp.com>.

HP Technical Support

In North America, call technical support at 1-800-652-6672, available 24 hours a day, 7 days a week.

NOTE: For continuous quality improvement, calls may be recorded or monitored.

Outside North America, call technical support at the nearest location. Telephone numbers for worldwide technical support are listed on the HP website under support: <http://thenew.hp.com/country/us/eng/support.html>.

Be sure to have the following information available before calling:

- Technical support registration number (if applicable)

- Product serial numbers
- Product model names and numbers
- Applicable error messages
- Operating system type and revision level
- Detailed, specific questions

HP Website

The HP website has the latest information on this product, as well as the latest drivers. Access storage at: <http://thenew.hp.com/country/us/eng/prodserv/storage.html>. From this website, select the appropriate product or solution.

HP Authorized Reseller

For the name of your nearest HP Authorized Reseller:

- In the United States, call 1-800-345-1518
- In Canada, call 1-800-263-5868
- Elsewhere, see the HP website for locations and telephone numbers: <http://thenew.hp.com>.

Flexport Upgrade Instructions

Read these instructions to upgrade the Edge Switch 2/24 from 8 ports to 16 ports and from 16 ports to 24 ports by installing the 8-flexport upgrade kit for the Edge Switch 2/24.

Each port expansion kit includes eight optical transceivers, these upgrade instructions, and a transaction code for obtaining a software license key (feature key). The feature key must be entered in the **Configure** menus of the High Availability Fabric Manager (HAFM) Product Manager or Embedded Web Server (EWS) for the specific Switch, or through the command line interface (CLI).

Unpacking and Inspecting the Optics

Unpack and inspect the optics as follows:

- Inspect the shipping container for damage caused during transit. If a container is damaged, ensure a representative from the freight carrier is present when the container is opened.
- Unpack the shipping container and inspect each item for damage. Ensure all items listed on the enclosed bill of materials are included in the container.
- If any items are damaged or missing, contact a Hewlett-Packard authorized service provider or reseller.

Upgrading the Edge Switch 2/24

This section describes how to upgrade the Edge Switch 2/24 from 8 ports to 16 ports and from 16 ports to 24 ports.

Upgrading to 16 Ports

Ports 0 through 8 of the Edge Switch 2/24 are populated when you receive it (Figure 1, ❸).

To upgrade to 16 ports:

1. Insert 8 new optical transceivers into ports 8 through 15 (Figure 1, ❷).
2. If you have no additional ports to upgrade, go to the “[Obtaining and Configuring Feature Key](#)” section on page 3. If you want to install additional ports, continue with the “[Upgrading to 24 Ports](#)” section.

Upgrading to 24 Ports

Ports 0 through 15 should be populated after you have completed the procedure described in “[Upgrading to 16 Ports](#)” (Figure 1, ❷ and ❸).

To upgrade to 24 ports:

1. Insert 8 new optical transceivers into ports 16 through 23 (Figure 1, ❶).

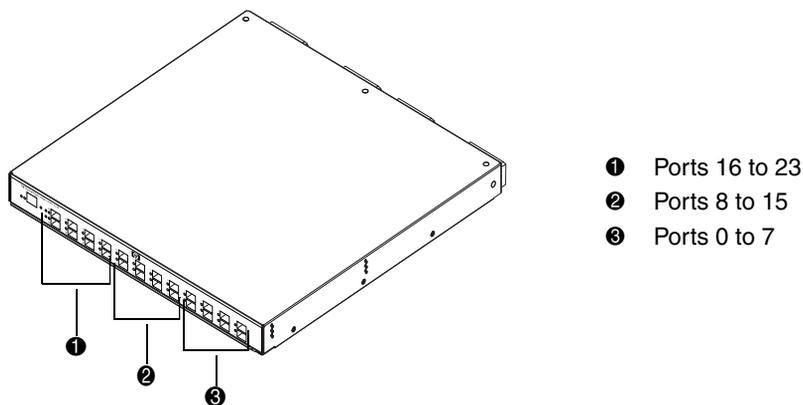


Figure 1: Edge Switch 2/24 port locations

2. Continue with “[Obtaining and Configuring Feature Key](#)” on [page 3](#).

Obtaining and Configuring Feature Key

In order to configure the ports you have added, you need to obtain and configure a feature key. The following sections tell you how to order and configure the key.

Obtaining a Feature Key

To obtain the feature key for your flexport upgrade, complete the information requested on the *hp StorageWorks fibre channel switches entitlement certificate* for firmware features. This certificate is included in the flexport upgrade kit. Then, send the information on the form to the Hewlett-Packard Authorization Center by using one of the following methods:

	US & Canada 06000-1800 U.S. MST, M-F	Europe 0900-1800 Netherlands local time, M-F	Asia 0600-1700 Japan local time, M-F
World Wide Web (24 x 7)	www.webkey.external.hp		
Call the HP Authorization Center	(801) 431-1451 (800) 861-2979	+31-555-384-210	+81-03-3227-5289 +81-3-3227-5289 (outside Japan)
Fax the completed form	(801) 431-3654	+31-555-434-645	+81-03-3227-5289 +81-3-3227-5238 (outside Japan)
E-mail	Americas_password@ cnd.hp.com	Europe_password@ cnd.hp.com	Asia_password@ cnd.hp.com

The Hewlett-Packard Authorization Center uses the information that you send to create a unique software license key for your Edge Switch 2/24 8-port upgrade. It delivers the license key to you by the same method you use to send your information to the Authorization Center. For example, if you send your information by e-mail, the Authorization Center will send the license key to you by e-mail.

Configuring the Feature Key

A feature key is an alphanumeric string consisting of both uppercase and lowercase characters. The following is an example of a feature key format:

XxXx-XXxX-xxXX-xX

The total number of characters may vary. The key is case sensitive and must be entered exactly, including the dashes.

The following procedure tells you how to configure the feature key using HAFM. If you are using EWS to configure the feature key, refer to online help in the EWS. If you are using the CLI to configure the feature key, refer to the *hp StorageWorks CLI reference guide for directors and edge switches*.

After you have obtained the feature key, access HAFM for the Switch to be configured and perform the following steps:

1. Set the Switch offline by choosing **Set Online State** from the **Maintenance** menu.

For help, refer to the most recent version of the *hp StorageWorks edge switch 2/24 product manager user guide*.

NOTE: Before setting the Switch offline, warn administrators and users currently operating attached devices that the Switch is going offline and that there will be a disruption of port operation. Also, request that the devices affected by an interruption of data flow be set offline.

2. At the **Hardware View**, click **Configure** at the top of the view and select **Features** from the pop-up menu. The **Configure Feature Key** dialog box displays (Figure 2).

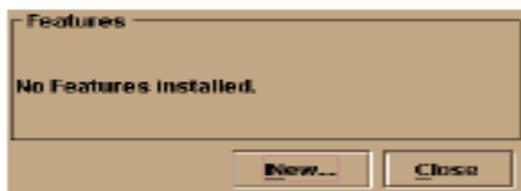


Figure 2: Configure Feature Key dialog box

3. Click **New** to add a new feature key. The **New Feature Key** dialog box displays (Figure 3).

A dialog box with a light brown background. On the left, the text "Key:" is followed by a white text input field. On the right side, there are two buttons: "OK" and "Cancel".

Figure 3: New Feature Key dialog box

4. In the **New Feature Key** dialog box, type the Switch's feature key and click **OK**. The **Enable Feature Key** dialog box displays (Figure 4).

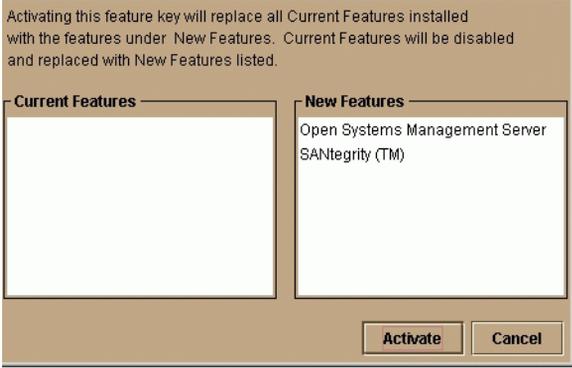
A dialog box with a light brown background. At the top, a warning message reads: "Activating this feature key will replace all Current Features installed with the features under New Features. Current Features will be disabled and replaced with New Features listed." Below the warning are two columns: "Current Features" on the left and "New Features" on the right. The "New Features" column contains the text "Open Systems Management Server" and "SANtegrity (TM)". At the bottom right, there are two buttons: "Activate" and "Cancel".

Figure 4: Enable Feature Key dialog box

The **Enable Feature Key** dialog box contains a warning, stating that this action will override the current set of features on the Switch.

If features are enabled on the Switch, they will be listed in the **Current Features** column on the left. The features that come with the new feature key are listed in the **New Features** column on the right. All of the features that are currently active on the Switch are included in the list in the **New Features** column.

5. Click **Activate** to activate the new feature key.

A warning dialog box displays (Figure 5).

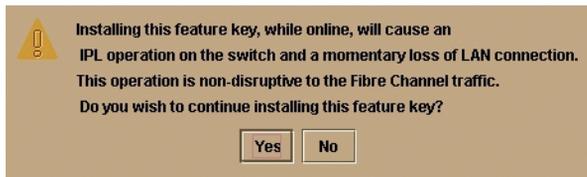


Figure 5: Warning Dialog Box

6. Click **Yes** to enable the feature key. When the feature key is enabled, the Switch performs an IPL, during which the Ethernet connection between the HAFM server and Switch is momentarily interrupted.
7. Set the Switch back online by choosing **Set Online State** from the **Maintenance** menu.

When you are finished configuring the Switch, you can back up the configuration data.