

# **EZSwitchSetup**

## Administrator's Guide

**Supporting Fabric OS v6.3.0** 

Supporting Brocade 300, 4100, 4900, 5000, 5100, 5300, 7800, 8000

**BROCADE** 

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## How this document is organized

This document contains the following components:

- Chapter 1, "Introducing EZSwitchSetup", provides basic information about the EZSwitchSetup interface, including system requirements and installation instructions.
- Chapter 2, "Setting Up Your Switch", describes how to set up your switch for the first time.
- Chapter 3, "Managing Your Switch", describes how to monitor and manage your switch using the EZSwitchSetup Switch Manager.
- Appendix A, "EZSwitchSetup Limitations", discusses the limitations of and provides workarounds for using EZSwitchSetup.

## **Supported Hardware and Software**

This document supports the following platforms:

- Brocade 300 switch
- Brocade 4100 switch
- Brocade 4900 switch
- Brocade 5000 switch
- Brocade 5100 switch
- Brocade 5300 switch
- Brocade 7800 Extension Switch
- Brocade 8000 FCoE Switch

In those instances in which procedures or parts of procedures documented here apply to some switches but not to others, this guide identifies exactly which switches are supported and which are not.

Although many different software and hardware configurations are tested and supported by Brocade Communications Systems, Inc., documenting all possible configurations and scenarios is beyond the scope of this document; however, this document does specify when procedures or parts of procedures apply only to specific switches.

### What's new in this document

The following information was added to this document:

- Support for the Brocade 7800 switch.
- Provide an option in the EZSwitchSetup wizard to set up IP addresses for other switches.
- Provide the ability to enable or disable DHCP when configuring the switch IP address.

### **Document conventions**

This section describes text formatting conventions and important notices formats.

### **Text formatting**

The narrative-text formatting conventions that are used in this document are as follows:

**bold** text Identifies command names

Identifies the names of user-manipulated GUI elements

Identifies keywords and operands
Identifies text to enter at the GUI or CLI

italic text Provides emphasis

Identifies variables

Identifies paths and Internet addresses

Identifies document titles

code text Identifies CLI output

Identifies syntax examples

For readability, command names in the narrative portions of this guide are presented in mixed lettercase: for example, **switchShow**. In actual examples, command lettercase is often all lowercase. Otherwise, this manual specifically notes those cases in which a command is case sensitive.

### Notes, Cautions, and Warnings

The following notices appear in this document.

#### NOTE

A note provides a tip, emphasizes important information, or provides a reference to related information. A note provides a tip, guidance or advice, emphasizes important information, or provides a reference to related information.

#### **ATTENTION**

An Attention statement indicates potential damage to hardware or data.



#### **CAUTION**

A Caution statement alerts you to situations that can be potentially hazardous to you or cause damage to hardware, firmware, software, or data.



#### **DANGER**

A Danger statement indicates conditions or situations that can be potentially lethal or extremely hazardous to you. Safety labels are also attached directly to products to warn of these conditions or situations.

### **Key terms**

For definitions specific to Brocade and Fibre Channel, see the Brocade Glossary.

For definitions of SAN-specific terms, visit the Storage Networking Industry Association online dictionary at <a href="http://www.snia.org/education/dictionary">http://www.snia.org/education/dictionary</a>.

## **Additional Information**

This section lists additional Brocade and industry-specific documentation that you might find helpful.

### **Brocade resources**

To get up-to-the-minute information, go to <a href="http://my.brocade.com">http://my.brocade.com</a> and register at no cost for a user ID and password.

For practical discussions about SAN design, implementation, and maintenance, you can obtain *Building SANs with Brocade Fabric Switches* through:

http://www.amazon.com

For additional Brocade documentation, visit the Brocade SAN Info Center and click the Resource Library location:

http://www.brocade.com

Release notes are available on the My Brocade web site and are also bundled with the Fabric OS firmware.

### Other industry resources

- White papers, online demos, and data sheets are available through the Brocade Web site at http://www.brocade.com/products/software.jhtml.
- Best practice guides, white papers, data sheets, and other documentation is available through the Brocade Partner Web site.

For additional resource information, visit the Technical Committee T11 Web site. This Web site provides interface standards for high-performance and mass storage applications for Fibre Channel, storage management, and other applications:

http://www.t11.org

For information about the Fibre Channel industry, visit the Fibre Channel Industry Association Web site:

http://www.fibrechannel.org

## **Getting technical help**

Contact your switch support supplier for hardware, firmware, and software support, including product repairs and part ordering. To expedite your call, have the following information available:

- 1. General Information
  - Switch model
  - Fabric OS version
  - Browser and Java Plug-in version
  - Error numbers and messages received
  - Java console window messages
  - Screen shots
  - supportSave command output
  - Detailed description of the problem, switch or fabric behavior immediately following problem, and specific questions
  - Description of any troubleshooting steps already performed and results
- 2. Switch Serial Number

The switch serial number and corresponding bar code are provided on the serial number label, as shown here:



The serial number label is located as follows:

- Brocade 300, 4100, 4900, 5000, 5100, 5300, 7800, and 8000 switches: On the switch
   ID pull-out tab located on the bottom of the port side of the switch.
- 3. World Wide Name (WWN)
  - Brocade 300, 4100, 4900, 5000, 5100, 5300, 7800, and 8000 switches: On the switch
     ID pull-out tab located on the bottom of the port side of the switch.

### **Document Feedback**

Because quality is our first concern at Brocade, we have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you. Forward your feedback to:

documentation@brocade.com

Provide the title and version number of the document and as much detail as possible about your comment, including the topic heading and page number and your suggestions for improvement.

## Introducing EZSwitchSetup

## In this chapter

• Overview of EZSwitchSetup	1
• EZSwitchSetup software and hardware requirements	2
Supported switches	3
• Language support for EZSwitchSetup	4

## Overview of EZSwitchSetup

EZSwitchSetup is an easy-to-use graphical user interface application for setting up and managing your switch. It has the following components:

- EZSwitchSetup wizard (on the installation CD)
- EZSwitchSetup switch configuration wizard
- EZSwitchSetup switch manager

Figure 1 illustrates the high-level workflow of EZSwitchSetup.

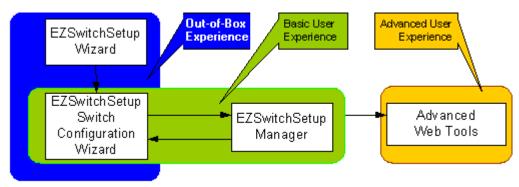


FIGURE 1 EZSwitchSetup Components

Chapter 2, "Setting Up Your Switch," describes how to use the EZSwitchSetup wizard and Switch Configuration to set up and configure your switch for the first time. For additional information about your switch, see the hardware reference manual included on the Brocade Documentation CD, which ships with the switch.

Chapter 3, "Managing Your Switch," describes how to use the Switch Manager to monitor and manage your switch.

#### NOTE

Although your switch may have advanced capabilities, EZSwitchSetup is for a single-switch fabric with FC ports only. To configure and manage other features on your switch, use the command line interface, Web Tools, or DCFM.

## **EZSwitchSetup software and hardware requirements**

You can run EZSwitchSetup on a SAN host computer or you can use a different computer that is not part of the SAN, such as a laptop.

EZSwitchSetup requires a browser that conforms to HTML version 4.0, JavaScript version 1.0, and Java Plug-in 1.6.0 or higher. The EZSwitchSetup installation CD automatically installs the correct Java Runtime Environment (JRE). This does not affect any pre-installed JREs.

EZSwitchSetup is supported on the platforms shown in Table 1.

**TABLE 1** Supported platforms

Operating System	Browser	Java Plug-In <sup>1</sup>
Linux Red Hat 9	Firefox 2.0	1.6.0
Windows 2003 Server, SP1	Internet Explorer 7.0 Firefox 2.0	1.6.0
Windows XP, SP3	Internet Explorer 7.0 Firefox 2.0	1.6.0

<sup>1.</sup> Java Plug-in 1.5.0\_06 is also supported, although Java Plug-in 1.6.0 is the only version that has been certified and fully tested with this version of EZSwitchSetup.

The minimum hardware requirements for a Windows system are as follows:

- 90 MB of hard drive space for the EZSS installation directory.
- 256 MB or more RAM for fabrics containing up to 15 switches.
- A minimum of 8 MB of video RAM is also recommended.
- An Ethernet port.
- A serial (COM) port, if you plan to connect to the serial port on the switch.

### **Configuring Internet Explorer**

Correct operation of EZSwitchSetup Switch Manager with Internet Explorer requires specifying the appropriate settings for browser refresh frequency and process model. Browser pages should be refreshed frequently to ensure the correct operation of Switch Manager.

- 1. Select Tools > Internet Options in the browser.
- 2. Select the General tab.
- 3. Select the Settings button under "Browsing history."
- 4. Under "Check for newer versions of stored pages," click Every time I visit the webpage.
- 5. Click **OK** to save the changes.

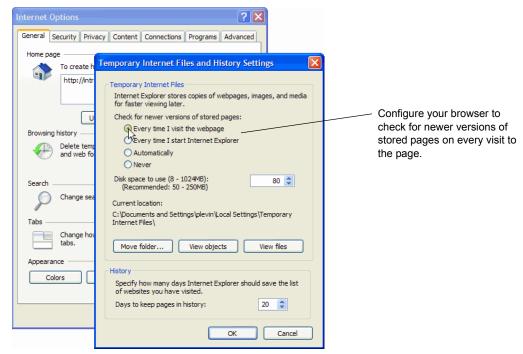


FIGURE 2 Configuring Internet Explorer

## **Supported switches**

You can use EZSwitchSetup with the following switches:

- Brocade 300 switch
- Brocade 4100 switch
- Brocade 4900 switch
- Brocade 5000 switch
- Brocade 5100 switch
- Brocade 5300 switch
- Brocade 7800 switch
- Brocade 8000 switch

Your switch must meet the following requirements:

- It must be connected to an Ethernet LAN that is accessible by the host. If it is not, the system issues the message "Page not Found."
- It must be running Fabric OS v6.3.0.
- It must have licensed ports. If the switch has no licensed FC ports, you must first install a POD license and then enable the affected ports.
- It must be in a single-switch fabric. If your switch connects to another switch (if there is an E\_Port on the switch), you cannot manage the switch using EZSwitchSetup until you disconnect the switch connection.

#### NOTE

If there is an E\_Port on the switch and if there is a zone conflict, then the fabric is segmented; in this case, the switch is in a fabric by itself and EZSwitchSetup treats it as a single-switch fabric.

You cannot use EZSwitchSetup to manage a switch that has any of the following features enabled:

- Virtual Fabrics with non-default logical switches
- Access Gateway
- User-defined Admin Domains

You can, however, use the EZSwitchSetup wizard to discover the switches and set their IP address.

## Language support for EZSwitchSetup

The EZSwitchSetup wizard and the Switch Manager interface display the following languages:

- English (default)
- Brazilian Portuguese
- French
- German
- Italian
- Japanese
- Korean
- Simplified Chinese
- Spanish
- Traditional Chinese

When you launch EZSwitchSetup, the interface detects the operating system and language environment and installs and displays the appropriate language. For example, if you set up the switch using a German operating system, EZSwitchSetup installs the German language interface and displays text, messages, and labels in that language.

If localization resources are not fully available in the user host environment, EZSwitchSetup uses the default language, English.

Regardless of the local language, the following is displayed in English:

- User input, which must consist of printable ASCII characters
- Switch-based information (such as firmware version and switch name)
- Some globally accepted industry terms (such as SAN and HBA)
- The End User License Agreement (EULA)
- System files (such as the summary file, setting file, and log file)

## **Setting Up Your Switch**

## In this chapter

Installing and running the EZSwitchSetup wizard	. 5
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Connecting devices and completing the setup	10

## Installing and running the EZSwitchSetup wizard

You can run EZSwitchSetup from a computer you are currently using for SAN administration, or you can use a different computer that is not part of the SAN, such as a laptop. In this chapter, the computer running EZSwitchSetup is called the setup computer.

The first step in setting up your switch is to install the EZSwitchSetup wizard, which is located on the EZSwitchSetup installation CD.

- 1. Insert the EZSwitchSetup CD into the CD-ROM drive of your setup computer.
  - On Windows: The installer will autostart in about a minute.
  - On Linux: Navigate to the following path location on the CD-ROM:
     <CD-ROM Path>/CDROM\_Installers/Linux/Disk1/InstData/VM/install.bin
- Install EZSwitchSetup following the onscreen directions.
   Installation will take a few minutes after you click **OK**.
- 3. Click **Done** on the last screen (shown in Figure 3) to exit the installer.

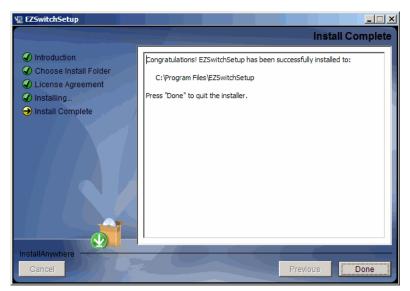


FIGURE 3 EZSwitchSetup Installer

On Windows, EZSwitchSetup starts automatically after it is installed. If it does not, see "Launching the EZSwitchSetup wizard" to launch the wizard manually.

On Linux, follow the procedure "Launching the EZSwitchSetup wizard" to launch the wizard.

### Launching the EZSwitchSetup wizard

- 1. Perform the following, depending on your operating system:
  - On Windows: EZSwitchSetup starts automatically after it is installed. If it does not, then
    from the Start menu, select Programs > EZSwitchSetup > EZSwitchSetup
  - On Linux: EZSwitchSetup does not start automatically, so you have to start it manually.

#### **ATTENTION**

The Linux installation requires root access.

The EZSwitchSetup wizard starts, as shown in Figure 4.

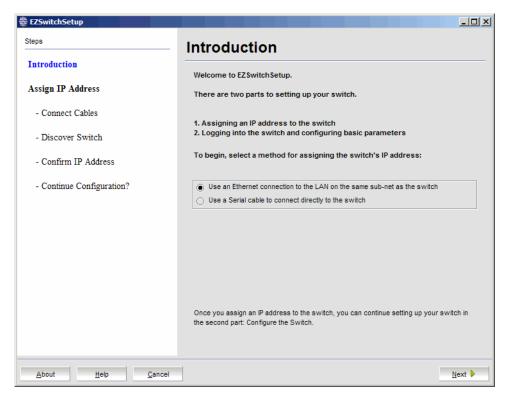


FIGURE 4 EZSwitchSetup introduction screen

### **Connecting cables**

1. Choose the method of connecting to your LAN.

You have the choice of using a serial connection or an Ethernet connection to your LAN to set the IP address for the switch. The Ethernet connection is generally more convenient and preferred. Use the serial connection if it is not possible or not convenient to connect the host on the same subnet as the switch.

2. Click Next.

The Connect Cables screen is displayed (Figure 5).

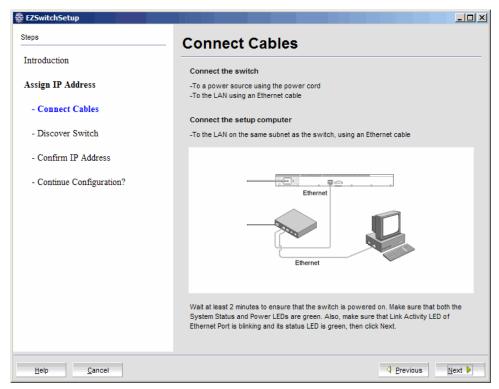
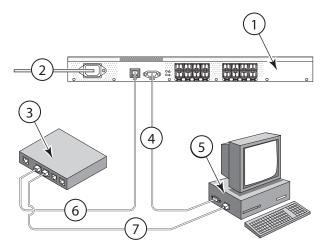


FIGURE 5 Connect Cables screen (Ethernet version, without serial cable)

Figure 6 on page 9 shows the cables connecting to the Brocade Fibre Channel switch, setup computer, Ethernet hub or switch, and network.

#### NOTE

Not all switches have their serial and Ethernet connectors in the same place as in Figure 6. Refer to the hardware documentation to determine the correct placement of the serial and Ethernet connections.



- 1 Brocade switch
- 2 Power cable
- 3 Ethernet hub or switch
- 4 Serial cable

- 5 Setup computer
- 6 Ethernet cable from hub to Brocade switch
- 7 Ethernet cable from setup computer to Ethernet hub or switch

#### FIGURE 6 Cable connections

3. Connect the power cord to the switch and plug in to a power source.

The switch power and status LEDs display amber and then change to green, which usually takes from one to three minutes. See your switch hardware manual for the location of the LEDs.

- 4. Connect an Ethernet cable from the Brocade switch to the LAN you want to use for your management connection through an Ethernet hub or switch. If you chose to use your Ethernet connection for Set up in step 1, this is the connection you will use. If you chose the serial cable connection in step 1, you should still connect the Ethernet cable so the Ethernet connection will be available when you start the EZSwitchSetup manager.
- 5. If you are using a serial connection for set up, connect your setup computer to the serial port on the switch, using the serial cable shipped with the switch. If you cannot locate the serial cable that came with the switch, you will need to find one that has the appropriate connectors. Do not use a null-modem cable. The serial connection settings are as follows.

Bits per second: 9600

Databits: 8Parity: noneStop bits: 1

Flow control: none

#### Click Next.

EZSwitchSetup attempts to discover the switch. If your switch discovery fails, see Table 2 on page 15 for details on how to recover your switch.

If you are using the serial connection, the **Set Switch IP Address** screen is displayed, and you can go to step 5. You can now remove the serial cable from the switch, but keep it available in case you lose your network connection, and need to revise any of the information you entered.

If you are using an Ethernet LAN connection, a **Discover Switch** screen is displayed (Figure 7). Go on to "Discovering the switch.".

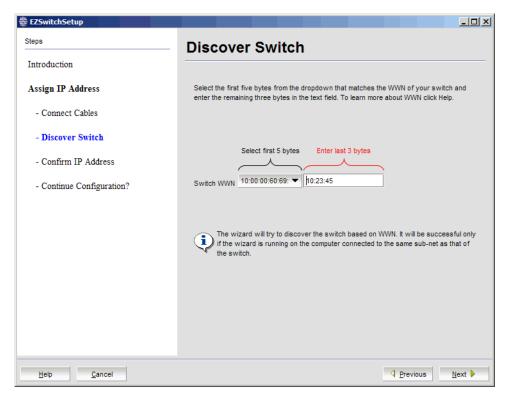


FIGURE 7 First Discover Switch screen

### Discovering the switch

- 1. Locate the WWN for your switch.
  - Brocade 300, 4100, 4900, 5000, 5100, 5300, 7800, and 8000 switches: Look on the switch ID pull-out tab located on the bottom of the port side of the switch.
- From the Switch WWN list (Figure 7), choose the switch's WWN prefix numbers and then enter the last six alphanumeric digits of your switch's WWN. Each two alphanumeric digits must be separated by a colon.
- 3. Click Next.

When EZSwitchSetup discovers the switch, it displays the discovered IP addresses (IPv4 and IPv6) on the screen (Figure 8).

If you are setting up the switch for the first time, the IP addresses are placeholder addresses that were assigned at the factory and you must provide valid addresses.

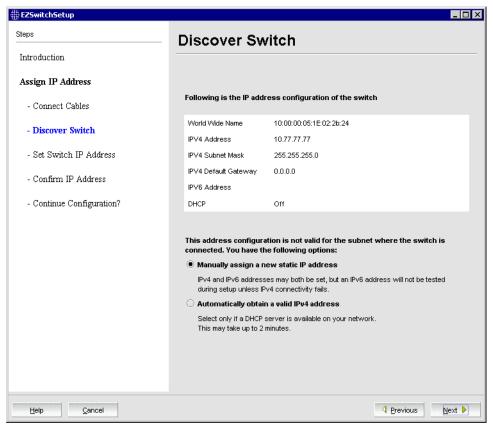


FIGURE 8 Second Discover Switch screen

- 4. Select an option for assigning the IP address and click **Next**. The options vary depending on the configuration of your switch:
  - Keep the current switch IP configuration.

This option is available only if EZSwitchSetup detected a valid IP address. Skip to "Confirming IP addresses" on page 13.

- Manually assign a new static IP address.
  - If you select this option and click **Next**, the **Set Switch IP Address** screen is displayed (Figure 9). Continue with step 5 to enter the IP address.
- Automatically obtain a valid IPv4 address.
  - Select this option only if a DHCP server is available on your network. When you click **Next**, an IP address is automatically obtained from the DHCP server and the **Confirm IP Address** screen is displayed. Skip to "Confirming IP addresses" on page 13.

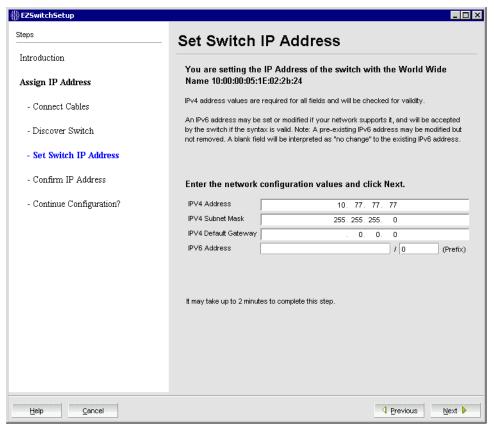


FIGURE 9 Set Switch IP Address screen

5. Beginning at this step, the steps are the same for both serial and Ethernet connections. If you are setting up the switch for the first time, the addresses shown are not valid. If you click **Next** with these addresses in place, EZSwitchSetup returns an error screen.

To set up IPv4 addresses, edit the address information on the **Set Switch IP Address** screen to create static addresses appropriate for your LAN connection.

To set up IPv6 addresses, enter the IPv6 address and prefix in the spaces provided.

6. Click Next.

EZSwitchSetup attempts to log in using default credentials. If you have already changed your admin password, you will be prompted to enter your new password.

7. Go on to "Confirming IP addresses" on page 13.

### **Confirming IP addresses**

The **Confirm IP Address** screen (Figure 10) is displayed after you have assigned IP addresses, using either a serial connection or an Ethernet connection.

1. Check the displayed addresses carefully to be sure they are correct.



FIGURE 10 EZSwitchSetup Confirm IP Address

2. Click Next to confirm the addresses.

The Continue Configuration? screen is displayed (Figure 11).

- 3. Select one of the following continuation options:
  - Continue setting up your target switch with EZManager
     Select this option if you intend to use EZSwitchSetup Manager as your primary management program for this switch.
  - Discover another switch on the same subnet for IP assignment only

Select this option to discover another switch and set the IP address.

If you select this option, EZSwitchSetup Manager will not be the default management tool for this current target switch. To set up EZSwitchSetup Manager as the management tool for this switch, you must discover it again with EZSwitchSetup and select the first continuation option.

#### Exit EZSwitchSetup

Select this option if you want to use EZSwitchSetup as an IP configuration tool, but do not want to use EZSwitchSetup Manager as a management tool for the switch.

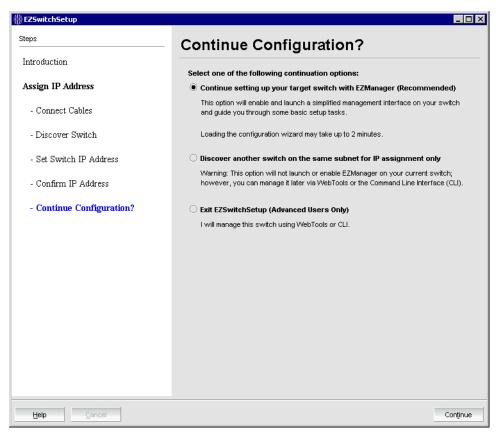


FIGURE 11 Continue Configuration screen

#### 4. Click Continue.

One of the following happens, depending on the continuation option you selected:

 If you selected Continue setting up your target switch with EZManager, a dialog box displays warning you that EZSwitchSetup supports only single switch fabrics. Click OK to start the EZSwitchSetup Manager.

A browser window opens and loads, and the **Switch Configuration Welcome** screen is displayed (Figure 12). This may take a few minutes.

If the configuration wizard does not launch, you must launch it manually by specifying the URL in a browser:

http://<switch-ip>

If the switch discovery fails, see "Switch discovery failure" on page 15 for details on how to recover your switch.

- If you selected **Discover another switch on the same subnet for IP assignment only**, the Discover Switch screen displays (Figure 7 on page 10). Go to "Discovering the switch" on page 10 and provide the WWN for the next switch.
- If you selected Exit EZSwitchSetup, the wizard closes.

## Switch discovery failure

During the setup of your switch, the switch discovery may fail. There may be several reasons why switch discovery fails. Table 2 lists symptoms and related suggestions to recover the switch.

**TABLE 2** Discovery recovery

Symptom	Correction
For serial connections:	
The setup computer COM port is busy.	The port is being controlled by another communications program. Stop all other third-party communications programs.
	The port settings are in conflict with another device. Check your IRQ settings.
	On Windows systems: By default, COM1 and COM3 use IRQ4, while COM2 and COM4 use IRQ3. If another device is sharing the IRQ of the port, you need to change the IRQ of the conflicting device. Hardware conflicts can also occur with the I/O address of the COM port. The 8514a video chip or its clones (S3 chip set) on some video cards create a conflict with COM4 because they use the same address of 02E8.
The switch does not respond to commands during a serial connection.	The serial cable may not be connected properly between the setup computer and the switch. Check the serial cable to ensure they are secured.
The switch does not power up.	Verify that the switch's power cable is securely plugged into a proper outlet and that the switch's power button is turned on.
The switch's serial adapter does not work.	Verify that the cable is good by replacing the cable or trying it on another known working device.  If the cable is good, then call your support provider for further instructions.
For Ethernet connections:	
The WWN is not entered correctly.	Verify that the WWN is correct.
The target switch is not on the same subnet as the host.	Connect the host to the same subnet as the target switch. If it is not possible or convenient to do so, use the serial connection to set the IP address.
The target switch has no IP address instead of the factory default 10.77.77.77.	Use the serial connection to set the IP address.
You have requested automatic address assignment in an environment where a DHCP server is not available.	Use the serial connection to set a reachable address.

## **Configuring the switch**

The configuration wizard steps you through the process of changing your administrative password and zoning. You begin at the **Welcome to Switch Configuration** screen (Figure 12).



FIGURE 12 Switch configuration welcome screen

1. Click Next to begin.

The **Set Parameters** screen is displayed.



FIGURE 13 EZSwitchSetup Setup Parameters

#### **Setting switch parameters**

- Follow the onscreen directions to set a new admin password for the switch. Make sure to record your password and keep it in a secure location for future reference.
- 2. Optional: Enter a new name for the switch and set the correct date and time.
- 3. Click Next. The Select Zoning screen is displayed.

#### NOTE

For the Brocade 8000, if you do not have a Ports on Demand license, none of the ports are usable, so the wizard displays a message and exits. You must add the Ports on Demand license using the EZSwitchSetup Switch Manager or the command line interface.

### **Zoning selection options**

The next step in configuring your switch is to select zoning. There are three choices:

Typical Zoning creates a port based zoning scheme based on the connections made on the
Configure Ports and Connect Devices screen (Figure 16). This zoning scheme creates a two
member zone for every possible pairing of H and S ports connected on the Configure Ports and
Connect Devices screen. This ensures that any host device connected to an H port is able to
communicate with any storage device connected to an S port.

#### NOTE

If you have *dual-capable devices* that are configured to function both as initiators and targets, they are recognized as targets by EZSwitchSetup and are rejected if attached to a host port in Typical Zoning mode. If you want to zone such a device as an initiator and cannot turn off target mode, you cannot use Typical Zoning. You must use Custom Zoning instead, and ensure that there is at least one initiator attached to the switch.

- Custom Zoning allows you to customize which initiators access which targets, and creates a
  device-based zoning scheme based on your choices. The HBAs and storage devices should
  already be connected to the switch. Custom Zoning provides a device accessibility matrix for
  you to modify; it then automatically creates zones based on that matrix. Custom Zoning
  supports only single-switch fabrics. If you select this option, when you click Next, the wizard
  closes and the EZSwitchSetup Switch Manager application opens.
- Advanced Zoning allows you complete customization of your zoning and should be used if you
  are familiar with zoning and zoning practices. If you select this option, when you click Next, the
  wizard closes and the Advanced Management application (Web Tools) opens. For specific
  information about using Web Tools for zoning, see the Web Tools Administrator's Guide.

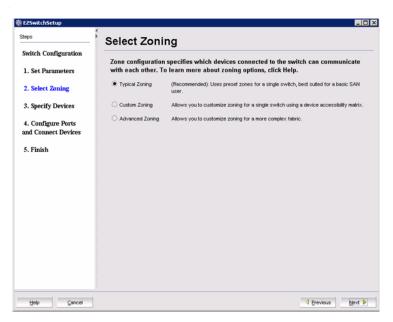


FIGURE 14 Select Zoning wizard

**Typical Zoning** is the default and the following procedure directs you to select **Typical Zoning**. When you select **Typical Zoning**, the wizard automatically configures the zones for you and shows you how to connect the devices to the switch. You can change the zoning configuration later, as described in "Zoning management" on page 42.

### Configuring zones on the switch

1. On the Select Zoning wizard, select Typical Zoning.

If you want to use one of the other zone settings, see "Editing the zoning configuration" on page 43 for instructions on configuring Custom zoning; see the Web Tools Administrator's Guide for information on Advanced zoning.

2. Click Next.

The Specify Devices screen is displayed.

### Specifying devices

On the Specify Devices screen (Figure 15), do the following.

- 1. Enter the number of HBA connections that you want to attach to the switch. Be sure to include existing HBA connections, and any additional HBA connections you plan to make in the current setup session. You can change this setting later if you want to add or remove HBA connections.
- Enter the number of storage connections you want to attach to the switch. Be sure to include existing storage connections, and any additional storage connections you plan to make in the current setup session. You can change this setting later if you want to add or remove storage connections.

EZSwitchSetup uses these values to verify that all your current and planned devices are properly connected for the zoning scheme that will be created. Note that Typical zoning ensures that every connected host device will be able to communicate with every connected storage device.

3. Click Next. The Connect Devices screen is displayed (Figure 16 on page 20).



FIGURE 15 Specify Devices screen

## Connecting devices and completing the setup

The final step in the switch configuration is to connect your devices to the switch in a way that matches a configured array of connection reservations (HBA or Storage) on the ports. In the interactive switch graphic that is displayed on the Configure Ports and Connect Devices screen, these connection reservations are shown by the letters H or S against a blue or green background on the ports, and will automatically match the types of the devices that have already been connected, with existing connections shown as green lines that connect the ports with icons representing the devices. If you have indicated on the previous screen that you intend to connect more devices, connection reservations of matching types will also have been made for your planned devices, with dotted blue lines to show you where these devices should be attached. Finally, as you actually attach the new devices, the dotted blue lines will change to solid green (for correctly attached devices), or to solid red (when devices are attached at ports with non-matching reservations). When a red line appears, the mismatch may be corrected either by moving the device to a different port as suggested by a dotted blue line for a device of that type, or else by changing the reservation type of the port where the device is currently connected by clicking on the port icon. In either case, the solid red and dotted blue line should both disappear, and be replaced by a single solid green line to indicate the correct connection. For connected devices you can also view details of the device by hovering your cursor over the host or storage icon.

The **Next** button for this screen is not enabled until all non-matching or missing connection issues (indicated by solid red and/or dotted blue lines) have been resolved.

If you change your mind about the number of devices you want to connect, you can click the **Previous** button and adjust the values you have selected in the dropdown device type lists on the **Specify Devices** screen. You must always select at least as many devices of each type as have actually been connected, and you must also connect as many devices of each type as you have selected. On the **Configure Ports and Connect Devices** screen you may also pre-reserve some additional currently unoccupied ports for future HBA or Storage connections. These additional reservations are also reflected in the zoning scheme, and are shown on the **Display Devices** screen in the **EZManager** application to remind you where these additional devices can be connected. The default reservation type is **HBA**.

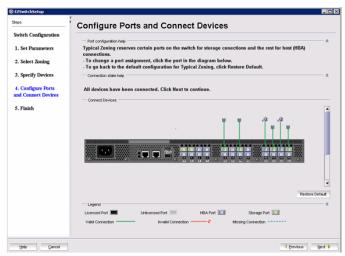
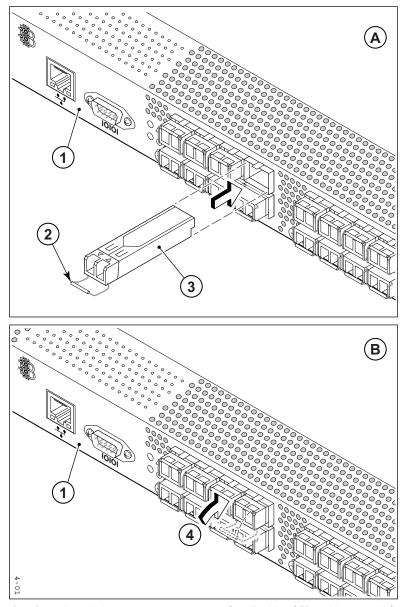


FIGURE 16 Configure Ports and Connect Devices screen

When you click **Next** on the **Configure Ports and Connect Devices** screen, if **Typical Zoning** is used, the final set of connection reservations shown on the screen is translated internally into a zoning scheme that ensures that every correctly connected host device can communicate separately with every correctly connected storage device. If this is not what you want (for example, if you want to partition your devices so that each HBA can communicate with some storage devices but not others), then you should re-run the Setup wizard and select **Custom Zoning** or **Advanced Zoning** instead of **Typical Zoning**.

Use the following procedure to make the physical connections.

- 1. Install the small form factor pluggable (SFP) transceivers in the Fibre Channel ports shown onscreen. (See Figure 17 on page 21).
  - a. Remove any protector plugs from the SFP transceivers to be used.
  - b. Position and insert each SFP transceiver as required (right side up in the top row of ports and upside down in the bottom row of ports) until it is firmly seated.
  - c. Close the latching bale.

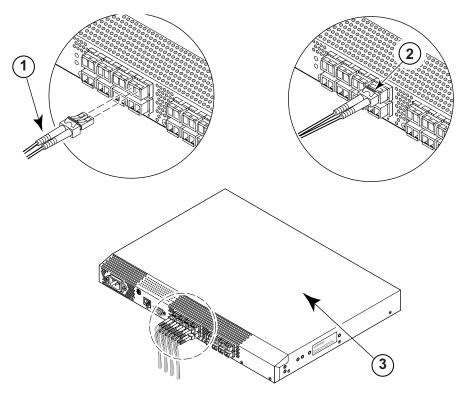


- 1 Brocade switch
- 2 Open the SFP bale
- 3 Position SFP and insert until firmly seated
- 4 Close the latching bale

#### FIGURE 17 Installing SFPs

- Connect Fibre Channel cables from the switch to your host and storage devices. Ensure that the physical connections are exactly as indicated on the Configure Ports and Connect Devices screen.
  - a. Remove any plastic protectors from the Fibre Channel cable ends, and position the cable connector so that it is oriented correctly.
  - b. Insert the cable connector into the SFP until it is firmly seated and the latching mechanism clicks.

The **Configure Ports and Connect Devices** screen provides visual feedback as you cable the switch. A green line indicates that the connection is correct, a red line indicates an invalid connection, and a blue line indicates a missing connection.



- Position the Fibre Channel cable
- 2 Install the Fibre Channel cable
- 3 Brocade switch

FIGURE 18 Installing Fibre Channel Cable to an SFP

- 3. Verify that the connections displayed on the **Configure Ports and Connect Devices** screen are all green.
- 4. Click Next.

The **Finish** screen is displayed.

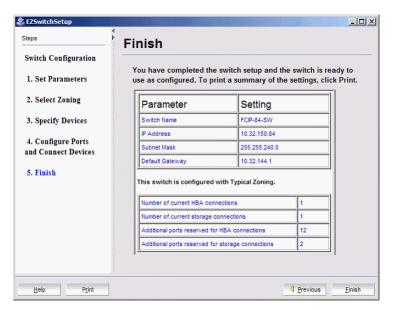


FIGURE 19 EZSwitchSetup Configuration Finish screen

5. Click **Finish** to complete the switch setup.

You are now ready to configure the storage component of the SAN using the documentation that came with the storage server.

If you want to monitor the switch, then you need to launch the EZSwitchSetup Switch Manager. See Chapter 3, "Managing Your Switch" for instructions on using this interface.

2 Connecting devices and completing the setup

# Managing Your Switch

# In this chapter

Switch manager overview	25
• Launching the EZSwitchSetup Switch Manager	28
• Viewing switch information	30
• Changing switch information	35
• Add port license.	36
Managing devices	37
• Zoning management	42
• Accessing Web Tools for advanced management	46

# Switch manager overview

The EZSwitchSetup Switch Manager is a simplified version of Web Tools. It streamlines switch management by providing an easy-to-use subset of basic switch management tasks.

You can use the EZSwitchSetup Switch Manager to do the following:

- Monitor the switch, including port and field replacable unit (FRU) status
- Manage custom zoning
- Perform basic switch configurations
- Add Ports On Demand (POD)

The Switch Manager works for a single-switch fabric only. It displays only the switch and associated tasks, without fabric information.

Figure 20 shows an example of the initial Switch Manager screen. The window appearance may vary depending on the switch model. The following sections describe the components of the screen.

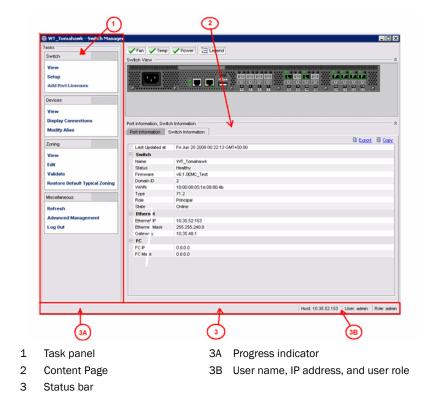


FIGURE 20 EZSwitchSetup Switch Manager Components

### Task panel

The left pane of the Switch Manager is the task panel, which displays all tasks. The tasks are categorized by Switch, Devices, Zoning, and Miscellaneous.

The **Switch** tasks enable you to view the port information or switch information, enter into switch setup, or add enable port licenses.

The **Devices** tasks enable you to view the devices attached to the switch, display the device connections, and modify a device alias.

The **Zoning** tasks enable you to view the zoning on the device, edit the zoning, validate the zoning, or restore the default fixed zoning.

The **Miscellaneous** tasks include refreshing the onscreen data, advanced management of the switch, and logging out.

The switch's **Port Information** page is shown by default when Switch Manager launches.

#### **Switch View**

The **Switch View** displays the switch and status buttons across the top. The status buttons enable access to each element listed.

Click the refresh icon under the **Miscellaneous Task**s to update the information on the screen with the current switch information. The display refreshes automatically each time you click a different task in the task panel.

#### **Content page**

When you click an item in the task panel, the content for that item displays in the right pane of the window. A content page may contain tabs, display information, launch a wizard, or display a dialog. Figure 21 shows the information displayed from the **Port Information** tab, and shows a shortcut menu that provides copy and export functions.

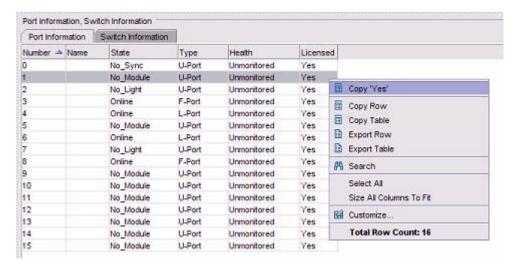


FIGURE 21 Content page, Port Information tab

#### NOTE

You must accept the Brocade Certificate at the beginning of the login to EZSwitch Manager to enable the functionality of Export and Copy.

- Click Export Row or Export Table to save the information to a tab-delimited text file.
- Click Copy 'text', Copy Row or Copy Table to copy the contents of the table in tab-delimited text
  format that can be pasted into a spreadsheet. Copy 'text' copies only the contents of the cell
  where the mouse is clicked, Copy Row copies the entire row, and Copy Table copies the entire
  table.
- Click Search to search for a specific text string in the table.

Type a text string in the box that displays on the table, and press **Enter**. This is an incremental search and allows 24 maximum characters including the wildcard characters: question mark (?) and asterisk (\*). The first row containing the text string is highlighted. To find the next match, press the down arrow. To find the previous match, press the up arrow.

If the text is not found in the table, the text turns red.

#### Status bar

The status bar, at the bottom of the window, is divided into the following sections:

Progress indicator

This is on the left side of the status bar. When Switch Manager is sending data to or retrieving data from the switch, this indicator is animated.

User name and IP address

The right side of the status bar displays your user name, role, and the IP address of the switch to which you are connected.

# Launching the EZSwitchSetup Switch Manager

You can launch Switch Manager on any workstation with a compatible Web browser installed. For a list of compatible web browsers, see Table 1 on page 2. Switch Manager also supports the HTTPS protocol, if that protocol is enabled for the switch. For more information on enabling the HTTPS protocol on your switch, see the *Fabric OS Administrator's Guide*.

1. Launch a Web browser and type the IP address of the switch in the Address field:

```
http://10.77.77.77

or

https://10.77.77.77
```

2. Press Enter.

A Java Web Start dialog box is displayed, showing the download progress.



If this is the first time the application has been started, a **Warning - Security** dialog box is also displayed.



3. If the Warning - Security dialog box is displayed, select Always trust content from this publisher and click Run.

The Login dialog box is displayed. If there are other applications open when EZSwitchSetup manager launches, the login dialog may be hidden. To view the login dialog, press Alt+Tab.



## Logging in

When you log in, the EZSwitchSetup Switch Manager interface is launched if the switch is set up and configured with EZSwitchSetup. If not, Web Tools is launched.

Switch Manager supports only single-switch fabrics. If your switch is connected to another switch, Switch Manager displays a message and exits. You must disconnect the switch from all other switches and relaunch EZSwitchSetup Switch Manager.

- 1. Type your user name.
- 2. Type the password.
- 3. Click OK.

A Switch Manager session is established, and the Switch View is displayed (Figure 22).

## **Switch Manager sessions**

A session is defined as the connection between the Switch Manager client and its managed switch. A session is established when you log in to a switch through EZSwitchSetup. A session remains in effect until one of the following happens:

- You log out.
- The session times out due to inactivity.

## Logging out

You can end your Switch Manager session either by selecting **Log Out** in the **Miscellaneous** area of the task panel, or by closing the browser window. All windows belonging to the session are invalidated (after a short delay they become greyed out and unusable, but you must close them manually), and the session is terminated.

# Viewing switch information

Using EZSwitchSetup Switch Manager, you can view the following:

- Switch status, including port status.
- Temperature, fan, and power supply status.
- HBA and storage connections to the switch.
- Information about devices connected to the switch.
- Accessibility between HBAs and storage.

Perform the following steps to view switch information

- 1. Click View in the task panel under Switch.
- 2. Click the Switch Information tab to display the Switch View.

Figure 22 displays the Switch View for a Brocade 200E switch.



FIGURE 22 Graphical View of Switch

The Switch View is a real-time view of switch and port status. The display is updated approximately once every 15 seconds. From the display you can determine the following:

- Fan status
- Temperature status
- Power supply status
- Status and type of each port

The Fan, Temp, and Power buttons indicate overall status as follows:

- Green circle (healthy)
- Yellow triangle (marginal)
- Red diamond (critical)
- Black and yellow striped square (unmonitored)

## Viewing the status indicator legend

To view the legend for the status indicators, click the **Legend** button.

The legend view opens. Figure 23 shows the status indicators that can appear on the fan, temperature, or power supply button.



FIGURE 23 Fan, temperature, and power supply legend

### Viewing fan, temperature, and power supply status

To view fan, temperature, or power supply status, click the Fan, Temp, or Power button.

Figure 24 shows the Fan view. The fan view shows the number of Fans and their operating state.

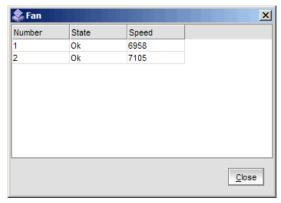


FIGURE 24 Fan status

Figure 25 shows the **Temperature** view. The temperature view displays the number of temperature sensors, their status, and the temperature in both Celsius and Fahrenheit.

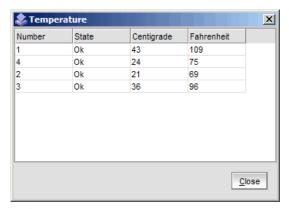


FIGURE 25 Temperature status

Figure 26 shows the **Power Supply** view. The power supply view displays the number of power supplies in the switch and their status.

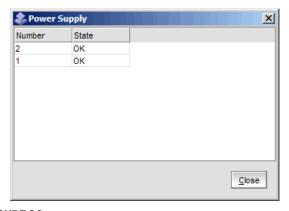


FIGURE 26 Power supply status

#### Port status

The Switch View displays port graphics with blinking LEDs, simulating the physical appearance of the ports. One or two LEDs are associated with each port, depending on the switch model: one of the LEDs indicates port status; the other indicates port speed. For LED information, see the hardware documentation for the switch you are viewing.

The background color of the port icon indicates the port status, as follows:

- Green (healthy)
- Yellow (marginal)
- · Red (critical)
- Gray (unmonitored)

If the entire port icon is blue, the port is buffer-limited. (A port is operating in *buffer-limited* mode when the number of buffers allocated to the port is less than the number of buffers needed by the port to utilize the port at full bandwidth.)

If a group of port icons is gray (unavailable), those ports are not licensed.

Figure 27 shows port icons and associated LEDs from a Brocade 4100 switch. The layout is similar for all switches, but varies according to switch type.

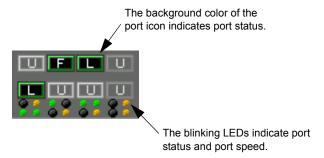


FIGURE 27 Port and LED Status Color-Coded Information in the Port Icon in Switch View

Hover the cursor over the port icon to view the port number, port type, and port status, as shown in Figure 28.



FIGURE 28 Displaying Port Information

Hover the cursor over the LEDs to view details about the port state and port speed, as shown in Figure 29.



FIGURE 29 Port State and Port Speed LEDs.

#### **Switch Information tab**

The **Switch Information** tab is the default information tab under **Port Information**, **Switch Information** on the Switch View (Figure 30). Detailed switch information is displayed as a list of properties, which may be viewed, copied, or exported by category.

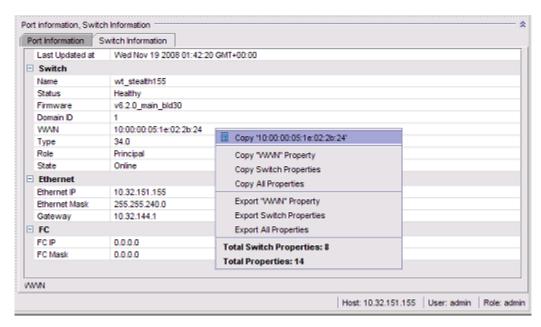


FIGURE 30 Switch Information tab

#### Port information tab

Select the **Port Information** tab to view the port information (Figure 31). Detailed port information is displayed as a categorized list of properties, which may be viewed, copied, or exported by category.

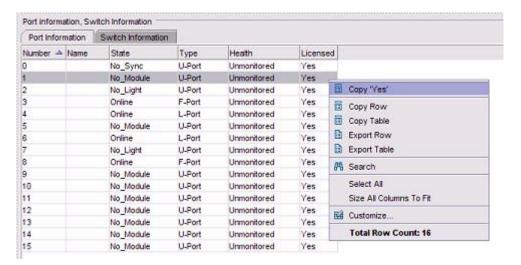


FIGURE 31 Port Information tab

The information page displays the following for each port:

- Port number.
- Port name.
- State of the port.
- Port type.
- Status (health) of the port.
- Indication of whether the port is licensed.

# **Changing switch information**

From the Switch Manager, you can relaunch the EZSwitchSetup Switch Configuration to perform the following tasks:

- Change the switch name.
- Change the switch time.
- Change the admin password.
- Change the zoning configuration type.

This is the same wizard that was launched the first time you set up the switch.

1. Click **Setup** under Switch in the task panel.

The Switch Configuration launches.

2. Follow the instructions in the wizard.

You can optionally change the switch name, switch time, and admin password. When prompted, you must select a zoning configuration.

# Add port license

EZSwitchSetup Switch Manager allows you to enable Ports On Demand (POD) if you have a license available. For the Brocade 7800, you can add the 7800 Upgrade License to activate ports 4–25. This option is not available if all ports are already licensed.

1. Click Add Port License under Switch in the task panel.

A dialog box is displayed.



FIGURE 32 Add Port License dialog box

- 2. Enter the license key to add the additional ports.
- 3. Click Add License.

The ports can now be enabled.

- 4. Enable the ports using one of the following methods:
  - Reboot or power cycle the switch
     When the switch is rebooted, the newly licensed ports come up as enabled.
  - Use the Advanced Management tool
     See "Accessing Web Tools for advanced management" on page 46 for information on launching Web Tools.
  - Use the command line interface

See the Fabric OS Administrator's Guide for information on using the command line interface.

## **Managing devices**

The **Devices** page displays the following information:

- Whether the device is an HBA, an HBA plus storage, or a storage only device.
- Device alias name, if one exists.
- Vendor name.
- Device name.
- WWN of the device port.
- Switch and port to which the device is connected.
- 1. Click **View** under **Devices** in the task panel to display a table of information for all of the connected devices (Figure 33).

The entries in the table are based on the device WWNs, so a single physical device can have more than one entry in the table. The device information can be viewed, copied, or exported.

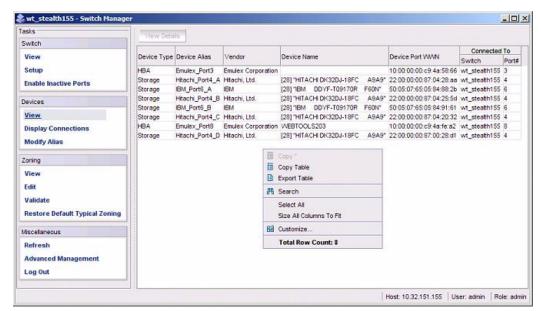


FIGURE 33 Devices view

The table can be sorted by device type, port number, or vendor. You can refine sorting by using the Ctrl key while selecting column headers. For example, if hold down the Ctrl key and select Device Type and Port# shows port numbers associated with device types (Figure 34).

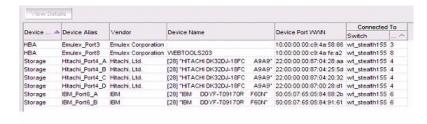


FIGURE 34 Device table sorting example

- 2. Select a row in the table to display additional information about the device.
- 3. Click View Details located at the top of the page. Figure 35 shows a Device Details example.

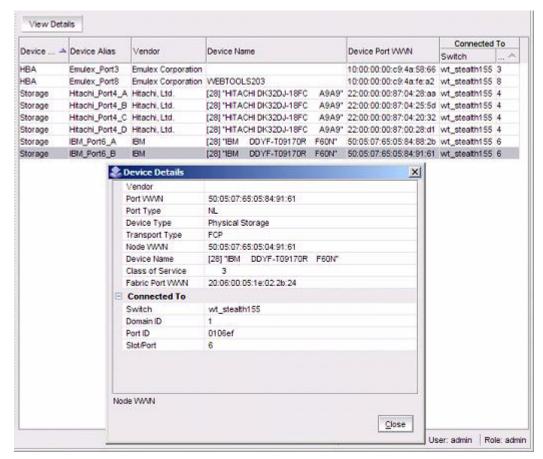


FIGURE 35 Detailed Device information

#### **Device connections**

EZSwitchSetup Switch Manager displays a graphical representation of the switch and the devices that are connected to each port.

Click **Display Connections** under Devices in the task panel.

A graphical representation of the switch and connections displays, as shown in Figure 36. This is a real-time display; the connections are updated automatically as you connect and disconnect HBAs and storage.

If Typical Zoning is set on the switch, Switch Manager validates the connections and displays whether the connections are valid or invalid. Switch Manager also shows what currently unoccupied ports are available for host and storage connections.

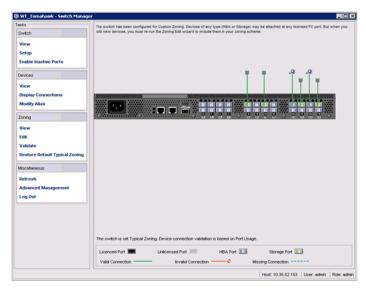


FIGURE 36 Display Connections screen

### Assigning and renaming device aliases

Every device has a device name and an alias name. Alias names make it easier to reference the devices. Alias names are displayed in the zone access map on the **Zoning** page. You can assign or rename the alias names using the following procedure.

1. Select Modify Alias under Devices in the task panel.

The **Define Device Aliases** wizard is displayed (Figure 37). The first time the **Define Device Aliases** wizard is started, the **New Alias** column is pre-populated with default aliases. You can click **OK** to accept the default aliases, or click **Cancel** if you do not want to assign aliases. Note that if an alias is not assigned, the devices are identified only by WWN. A good alias name makes it much easier to identify devices.

If you want to edit the alias, go on to step 2.

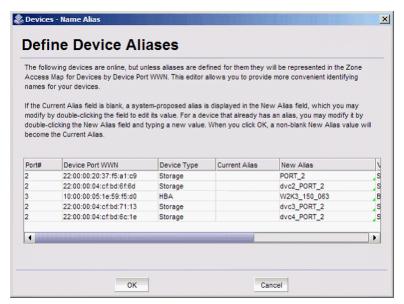


FIGURE 37 Define Device Aliases wizard

- 2. Double-click a field in the New Alias column to edit that alias.
- 3. Click **OK** when you are done.

A "Zone commit succeeded" message is displayed. This message confirms that the device alias changes have been saved to the zoning database. The wizard also prompts you to delete the aliases of any offline devices. Follow the instructions in the wizard.

The next time you select **Modify Alias**, the **Current Alias** column is populated with the **New Alias** names (Figure 38).

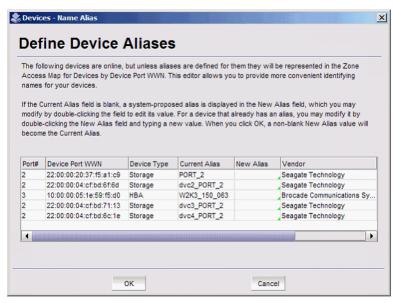


FIGURE 38 Device aliases moved under Current Aliases

After you have defined the device aliases, the aliases are displayed under **Device Alias** when you select **View** under **Devices** (as in **Figure 33**). The device aliases are also displayed in the **Zone Access Map for Devices** when you select **View** under **Zoning** (**Figure 39**).



FIGURE 39 Device alias in Zone Access Map

## **Zoning management**

Zoning enables you to partition your fabric into logical groups of devices that can access each other. For example, you can partition your fabric into two zones, *winzone* and *unixzone*, so that your Windows servers and storage do not interact with your UNIX servers and storage.

Zones can be configured dynamically. They can vary in size, depending on the number of fabric-connected devices, and devices can belong to more than one zone. Because zone members can access only other members of the same zone, a device not included in a zone is not available to members of that zone.

Zone members may be specified by fabric location (domain, port index) *only*, or by device name (node name or port WWN). Zones whose members are specified by fabric location are port-based, and zones whose members are directly specified by device WWN are device-based. In port-based zoning, all devices that are connected to ports that are in the same zone can communicate with each other, and a device can join a zone simply by being connected to a member port. In device-based zoning, devices are explicitly specified as members of the same zone. These devices can communicate with each other regardless of where they are located in the fabric.

EZSwitchSetup creates zones for you automatically, based on your configuration choices in Setup.

- If you chose Typical Zoning, a port-based zoning scheme was created. This zoning scheme
  creates a two member zone for every possible pairing of H and S ports connected on the
  Configure Ports and Connect Devices screen. This ensures that any host device connected to
  an H port is able to communicate with any storage device connected to an S port. This remains
  true even if you move a device, assuming you connect the device to the correct type of port (H
  or S).
- If you chose Custom Zoning, you created a device accessibility matrix during setup. The device accessibility matrix creates a device-based zoning scheme. By default, every connected host device can communicate with every connected storage device, as in typical zoning. You can use the device accessibility matrix to selectively disallow communications between certain devices, creating a device partitioning scheme that is enforced by zoning. Because custom zoning is device-based, you may freely move your devices to different ports without affecting accessibility relationships. If you add or permanently remove devices, you should reconfigure the accessibility matrix.
- If you chose Advanced Zoning, you were given direct access to the zoning database through Web Tools, and you created a zoning scheme of your own. EZManager can validate and display accessibility relationships based on your scheme, and it can replace your scheme with Typical Zoning or Custom Zoning. If you want to edit your scheme, you must return to Setup and chose Advanced Management to start Web Tools. For specific information about using Web Tools for zoning, see the Web Tools Administrator's Guide.

## Viewing the zone access map

Click **View** under **Zoning** in the task panel to view the **Zone Access Map for Devices** (Figure 40). If you have no devices or if you have only one device, the zoning map does not display.

The HBA and storage device names displayed in the matrix are the alias names of the devices (see "Assigning and renaming device aliases" on page 39 for additional information). If no aliases are assigned, devices are identified by WWN. When aliases are assigned, you can see the WWN in a tool tip by hovering the mouse cursor over the alias.

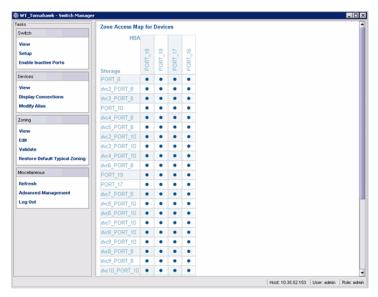


FIGURE 40 Zone Access Map

Some HBAs and storage devices can be configured with dual initiator and target capability. Such devices are displayed as storage devices in the matrix. If all of the attached devices are dual-capable, the Switch Manager thinks there are no hosts and does not display the matrix or allow zone configuration. In this case, you must either reconfigure some of the devices to be host-only to continue using the EZSwitchSetup Switch Manager or use Web Tools as your switch management tool.

## Editing the zoning configuration

You can customize which HBAs can access which storage devices by clicking **Edit** in the **Zoning** task panel. This starts a wizard that creates a new **Custom Zoning** scheme based on your device accessibility choices.

If you make any zoning changes to the default **Typical Zoning** configuration, you will be creating a **Custom Zoning** configuration to replace it. You can later restore the **Typical Zoning** configuration by clicking **Restore Default Typical Zoning** in the task panel.

#### **NOTE**

If all devices are dual-configured, you cannot proceed. Ensure that at least one initiator device is *not* dual-configured to proceed with this Zoning wizard.

1. Click Edit under Zoning in the task panel.

A wizard launches, briefly displaying the **Zone Access Map for Devices**.

A **Review Device Connections** screen displays device connections, over the **Zone Access Map for Devices**. Check to be sure all connected devices are present and recognized by the switch.

2. Click Next.

The **Define Device Aliases** screen is displayed.

- 3. Add or modify aliases in the New Alias column.
- 4. Click Next.

The Edit HBA/Storage Accessibility Matrix is displayed.

If no devices are connected to the switch, or if only storage devices or only HBAs are connected, then the Switch Manager displays a message and the **Edit HBA/Storage Accessibility Matrix** does not launch.

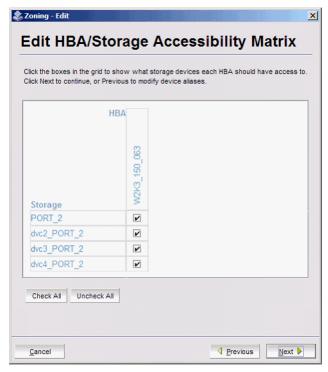


FIGURE 41 Edit HBA/Storage Accessibility matrix

- 5. Clear the check boxes selectively until you have defined the access groups and accessibility relationships you want in your zoning scheme.
- 6. When you are done making changes, click **Next** and the zoning **Summary and Confirmation** screen is displayed (Figure 42). Use the **Print** button if you would like a printed record of the zoning scheme.
- 7. Click **Finish** to create the zoning scheme. Click **Cancel** if you do not want to create this zoning scheme, and prefer to leave a previous scheme in place.

If you click **Finish**, allow time for the new scheme to be created. The **Zone Access Map** is updated with any new aliases, and a **Zone commit succeeded** confirmation dialog box is displayed.

8. Dismiss the confirmation dialog box. The **Zone Access Map** is updated to show the new accessibility relationships.

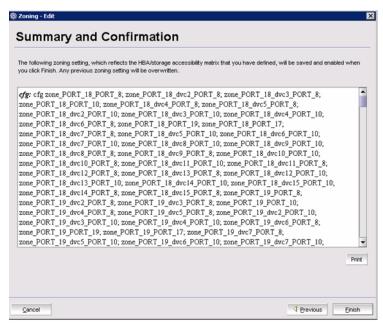


FIGURE 42 Zoning summary information

### Validating zoning configuration

You can validate the current zoning configuration against the following rules:

- Every HBA has access to at least one storage device.
- Every storage device is accessible by at least one HBA.
- No offline devices exist in the zoning configuration.

If offline devices are in the current zoning setup, you are prompted you to delete those devices from the zoning database.

1. Click Validate under Zoning in the task panel.

The Validate Zoning wizard launches.

- 2. Follow the instructions in the wizard.
- 3. Note any devices that are not zoned properly and, after exiting the wizard, and click **Edit** to update the zone configuration.

## **Restoring Typical Zoning**

If you have modified your zoning configuration and want to reset the configuration back to the default Typical zoning configuration, use the following procedure.

- 1. Click Restore Default Typical Zoning under Zoning in the task panel.
- 2. Click Yes in the confirmation window.

When this task is complete, the matrix in the **Zoning** page is automatically updated to reflect the changes.

## **Accessing Web Tools for advanced management**

From the Switch Manager, you can launch Web Tools, which provides more extensive switch management functions for more experienced users. See the *Web Tools Administrator's Guide* for information on the Web Tools interface.

To launch Web Tools, ensure that you have completed all Switch Manager tasks and then click **Advanced Management** in the **Miscellaneous** category of the task panel. The Switch Manager session will be closed. Any editing in Switch Manager that has not been applied is lost.

After entering Web Tools, you must re-log in to manage the switch.

You cannot return to EZSwitchSetup Switch Manager unless you close and reopen your browser window and relaunch EZSwitchSetup.

### Making EZSwitchSetup your default switch manager

If you want to be sure that the EZSwitchSetup Manager is launched as the default switch management program from your web browser instead of Web Tools, do the following.

- 1. Log in to the switch.
- 2. Use the **configure** command to check Web Tools attributes by typing **yes** or **y** to display Web Tools attributes, as in the following example.

```
switch:admin> configure

Not all options will be available on an enabled switch.
To disable the switch, use the "switchDisable" command.

Configure...

System services (yes, y, no, n): [no]
ssl attributes (yes, y, no, n): [no]
rpcd attributes (yes, y, no, n): [no]
webtools attributes (yes, y, no, n): [no] y
```

Web Tools attributes are displayed.

3. Type **yes** or **y** for the **Basic User Enabled** attribute to make the EZSwitchSetup Manager start by default from your web browser rather than Web Tools, as in the following example.

```
Basic User Enabled (yes, y, no, n): [yes] y
```

If **no** or **n** is specified, Web Tools is launched. Note that **no** is the default value.

# **EZSwitchSetup Limitations**

# **General limitations**

Table 3 lists general EZSwitchSetup limitations, which apply to all browsers and switch platforms.

**TABLE 3** EZSwitchSetup Switch Manager limitations

Problem Area	Details
HTTP timeout	Very often, you may see the following message when you try to get data from a switch or to send a request to the switch:  Failed to get switch response. Please verify the status of your last operation and try again if necessary.  This indicates that an HTTP request did not get a response. The request was sent to the switch, but the connection was down, probably caused by a temporary loss of the Web server on the switch. Due to the nature of an HTTP connection, Switch Manager will report this error after a 90-second default timeout.  In this case, verify the status of your last request, using Telnet to check related status, or click the <b>Refresh</b> button in the Switch Manager to retrieve related data. If your request did not get through to the switch, resubmit it. Executing a refresh from Switch Manager retrieves a copy of switch data at that moment; the data you entered can be lost if it had not already been committed to the switch.
Loss of Connection	Occasionally, you may see the following message when you try to retrieve data from the switch or send a request to the switch:  Switch Status Checking  The switch is not currently accessible.  The dialog title may vary, because it indicates which module is having the problem.  This is caused by the loss of HTTP connection with the switch, due to a variety of possible problems. Switch Manager automatically tries to regain the connection. While Switch Manager is trying to regain the connection, check if your Ethernet connection is still functioning. If the problem is not with the Ethernet connection, wait for Switch Manager to recover the connection and display the following message:  You will have to resubmit your request after closing this message.  If the temporary switch connection loss is caused by switch hot code load, or other similar operation, the Switch Explorer you are currently running can be downloaded from a different firmware version than the new one. In this case the following message displays:  Switch connection is restored. The firmware version you are running is not in sync with the version currently on switch. Close your browser and re-launch Webtools.  You must close Switch Manager and relaunch it to reopen the connection.
Switch Name Change	If you change the switch name using EZSwitchSetup or SNMP and then open a Telnet window to verify the name change, the CLI prompt (for example, <b>switch:admin&gt;</b> ) displays the previous name. The Telnet prompt cannot pick up the new switch name until the switch is rebooted.  Workaround: To display the correct switch name in the CLI prompt after a switch name update using EZSwitchSetup or SNMP, <b>fastboot</b> the switch.

Α

General limitations

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