CHAPTER 4

Edit Tasks

These topics describe the Edit tasks for Element Manager:

Note Use the Edit menu to quickly view port and card properties. You can use the Edit menu to choose all cards or ports of the same type and then view the properties of those elements. You can perform Edit menu tasks with the Element Manager chassis display. To view and configure the server switch from the chassis display, see the "Chassis Display Tasks" section on page 2-1.

Viewing Properties of One Interface Card

To view the properties of one interface card, follow these steps:

Step 1 Click the card with properties that you want to view.

Step 2 From the Edit menu, click **Card Properties**.

A window opens and displays the properties of the card.

Step 3 Click the **Card** tab.

Table 4-1 describes the fields in this tab.

Table 4-1 Interface Card Fields

Field	Description
Admin Type (gateway cards only)	Administratively configured card type.
Card Type	Dynamically discovered card type.
Enable/Disable Card	The up and down radio buttons enable or disable the card.

Table 4-1 Interface Card Fields (continued)

Field	Description
Current Card Status	Displays up if the card can currently run traffic; otherwise, displays down.
Operational State	Displays the general condition of the interface card. The general condition may appear as any of the following: • unknown • normal • wrongBootImage • bootFailed • tooHot • booting A condition of unknown indicates an unsupported interface card. To address this condition, replace the card with a supported card. The operational state of a card must appear as **normal** for the current status of the card to appear as up. A wrong-image condition indicates that the active system image on the interface card does not match the active system image on the controller. All cards must run the same active system image as the controller card to function. A bootFailed condition indicates that the active system image on the card was incompletely or incorrectly loaded. If the other interface cards come up successfully, reset the individual card. Otherwise, reboot your entire device. The tooHot condition indicates that the card is overheating. From the Health menu, select **Status,** and then click on the **Fans** tab to see if your fans failed. The booting condition indicates that the card has not finished loading necessary image data for internal configuration.
Card Boot Stage	Boot Stage can be any of the following: • recovery • ipl • ppcboot • fpga • pic • ib • rootfs • kernel • exe • done • none

Table 4-1 Interface Card Fields (continued)

Field	Description
Card Boot Status	Boot Status can be any of the following: • upgrading • success • failed • badVersion • badCrc • memoryError • outOfSpace • programmingError • hardwareError • fileNotFound • inProgress • none
Serial Number	Factory-assigned product serial number of the card.
PCA Serial Number	Printed circuit assembly (PCA) serial number of the card.
PCA Assembly Number	Printed circuit assembly (PCA) assembly number of the card.
FRU Number	Field-replaceable unit (FRU) number of the card.
Product Version ID	Version ID of the card.
Action	Radio buttons follow these steps when you click Apply: • Take no action • Reset (reboot) the card • Delete inactive images from the card
Result	Displays the result of the last executed action from the Action field.

Viewing Properties of All Interface Cards of the Same Type

To view the properties of all interface cards of the same type, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then choose the type of card that you want to select.

Yellow selection boundaries appear around all cards of that type.

Step 2 From the Edit menu, choose **Card Properties**.

A window opens and displays a table of all of the properties of the selected cards.

Viewing Properties of One Port

This topic describes how to view properties of a single port. In addition to the properties described here, these topics let you view IP addresses and bridging properties of an Ethernet port:

- Viewing IP Addresses of an Ethernet Port, page 4-6
- Viewing Bridging Properties of an Ethernet Port, page 4-7

To view the properties of one port, follow these steps:

Step 1 Click the port with properties that you want to view.

Step 2 From the Edit menu, select **Port Properties**.

A window opens and displays the properties of the port.

- Table 4-2 describes the fields in the properties window of an Ethernet port.
- Table 4-3 describes the fields in the properties window of a Fibre Channel port.
- Table 4-4 describes the fields in the properties window of an InfiniBand port.

Table 4-2 Ethernet Port Properties Window Field Descriptions

Field	Description
Port Type	Displays the port number in slot#/port# notation.
Port Name	Port name that you can edit and apply to the port.
Enable/Disable Port	The up and down radio buttons let you configure the administrative status of the port.
Current Port Status	Indicates whether or not the port is ready for use.
Auto Negotiation Supported	Displays true if the port supports autonegotiation.
Enable Auto Negotiation check box	Enables or disables autonegotiation on the port.
Set Port Speed	Radio buttons let you configure the speed of the port.
Current Port Speed	Displays the speed of the port.
Set Duplex	Radio buttons let you configure the duplex setting of the port.
Current Duplex	Indicates whether the port runs in full duplex mode or half duplex mode.
Enable Link Up/Down Trap	Enabled and disabled radio buttons let you configure whether or not the port sends a trap when links go up or down.
MTU	Displays the maximum transmission unit (MTU) of the port, in bytes.
MAC Address	Displays the media access control (MAC) address of the port.
Last Changed On	Time and date that a user last configured the port.
Action	Flushes the ARP table when you click Apply.
Result	Displays the result of the executed action from the Action field.

Table 4-3 Fibre Channel Port Properties Field Descriptions

Field	Description
Port Type	Port number in slot#/port# notation.
Port Name	Port name that you can edit and apply to the port.
Enable/Disable Port	Up and down radio buttons let you configure the administrative status of the port.
Current Port Status	Indicates whether or not the port is ready for use.
Auto Negotiation Supported	Displays true if the port supports autonegotiation.
Enable Auto Negotiation	Check box that lets you enable or disable autonegotiation on the port.
Set Port Speed	Radio buttons that let you configure the speed of the port.
Current Connection Type	Type of Fibre Channel connection between the port and the SAN.
Current Port Speed	Displays the speed of the port.
Enable Link Up/Down Trap	Enabled and disabled radio buttons that let you configure whether or not the port sends a trap when links go up or down.
MTU	Maximum transmission unit (MTU) of the port, in bytes.
WWNN	World-wide node name of the HCA of the port.
WWPN	World-wide port name of the port.
FC ID	Native Fibre Channel ID of the port.
Last Changed On	Time and date of the last time that a user configured the port.

Table 4-4 InfiniBand Port Properties Field Descriptions

Field	Description
Port Type	Port number in slot#/port# notation.
Port Name	Port name that you can edit and apply to the port.
Enable/Disable Port	The up and down radio buttons that let you configure the administrative status of the port.
Current Port Status	Indicates whether or not the port is ready for use.
Physical State	Status of the physical connection to the port.
Auto Negotiation Supported	Displays true if the port supports autonegotiation.
Enable Auto Negotiation	Check box that lets you enable or disable autonegotiation on the port.
Set Port Speed	Drop down menu configures the link capacity of the port in terms of its link width (1x, 4x, or 12x) and its lane speed (SDR or DDR). Valid values are 1x-SDR (2.5 Gbps), 4x-SDR (10 Gbps), 12x-SDR(30 Gbps), 1x-DDR (5 Gbps), 4x-DDR (20 Gbps), and 12x-DDR (60 Gbps).

Table 4-4 InfiniBand Port Properties Field Descriptions (continued)

Field	Description
Current Port Speed	Displays the link capacity of the port.
Power Connector Dongle Type	Displays the power connector Dongle type. This field appears only if the InfiniBand port is supporting the power connector. Possible values are as follows: • none (1) • ib4xFX (2)
Power Connector Dongle State	Indicates the power control state of dongle that is attached to a powered interface connector. Possible Values are as follows: • noStateChange(0) • on(1) • off(2)
Clear Counters	Check box allows you to clear the counters for the InfiniBand port.
Enable Link Up/Down Trap	Enabled and disabled radio buttons that let you configure whether or not the port sends a trap when links go up or down.
MTU field	Maximum transmission unit of the port, in bytes.
Last Changed On field	Time and date of the last time that a user configured the port.

Viewing IP Addresses of an Ethernet Port

To view the IP addresses of one Ethernet port, follow these steps:

Step 1 Click the Ethernet port with IP addresses you want to view.

Step 2 From the Edit menu, click **Port Properties**.

A window opens and displays the properties of the port.

Step 3 Click the **IP Addresses** tab.

The IP Addresses tab appears. Table 4-5 describes the fields in this display.

Table 4-5 IP Address Field Descriptions

Field	Description
Port	Port number, in card#port# format. A port# of 0 represents the internal gateway port of the interface card.
Address	IP address assigned to the port.
Netmask	Subnet mask assigned to the port.
BcastAddrFormat	IP broadcast address format that the port uses.
ReasmMaxSize	Size of the largest IP datagram that this port can receive and reassemble from incoming fragmented IP datagrams.

Table 4-5 IP Address Field Descriptions (continued)

Field	Description
Type	Displays primary or backup to indicate that the interface card acts as the primary or backup interface for the IP address that appears in the address field.
Status	Displays active or inactive to indicate that the card actively services IP packets addressed to the IP address in the address field or does not service packets to the specified address.

Viewing Bridging Properties of an Ethernet Port

To view the bridging properties of one Ethernet port, follow these steps:

Step 1 Click the Ethernet port with Bridging properties you want to view.

Step 2 From the Edit menu, click **Port Properties**.

A window opens and displays the properties of the port.

Step 3 Click the **Bridging** tab.

The Bridging tab appears. Table 4-6 describes the fields in this tab.

Table 4-6 Bridging Field Descriptions

Field	Description
Port	Port number, in slot#/port# format.
IEEE VLAN Tag	VLAN of the bridge group.
Bridge Group ID	Bridge group to which the port belongs. Assign the bridge group from the Ethernet menu by choosing **Bridging**.

Viewing Properties of All Ports of the Same Type

To view the properties of all ports of the same type, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then choose the type of port that you want to select.

Yellow selection boundaries appear around all ports of that type.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays a table of all of the properties of the selected ports.

Configuring Interface Card Properties

You can configure interface card properties with the Edit menu or with the chassis display. For chassis display instructions, see Chapter 2, "Chassis Display Tasks". These topics describe how to configure card properties with the Edit menu:

- Configuring Administrative Card Types, page 4-8
- Enabling or Disabling a Card, page 4-9

Configuring Administrative Card Types

Configure administrative card types to reserve slots for particular interface cards. You can configure administrative card types in one of the following ways:

- Configuring One Interface Card as Administrative Card Type, page 4-8
- Configuring Multiple Cards as Administrative Card Types, page 4-8

Configuring One Interface Card as Administrative Card Type

To configure the card type for one interface card, follow these steps:

Step 1 Click the type of card you want to configure.

Step 2 From the Edit menu, choose **Card Properties**.

A window opens and displays the properties of the card.

Step 3 Click the appropriate radio button in the AdminType field, click **Apply**, and then click **Close**.

Configuring Multiple Cards as Administrative Card Types

To configure the card types for multiple interface cards, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then choose a type of card.

Yellow selection boundaries appear around all cards of that type.

Step 2 From the Edit menu, choose **Card Properties**.

A window opens and displays a table of all of the properties of the selected cards.

Step 3 In the AdminType column, click the type of the card that you want to configure.

A drop-down menu appears. Choose a value from the drop-down menu, and then repeat this step for each additional card that you want to configure.

Enabling or Disabling a Card

You can enable and disable cards using either of the following procedures:

- Enabling or Disabling Cards from a One Card Display, page 4-9
- Enabling or Disabling Multiple Cards, page 4-9

Enabling or Disabling Cards from a One Card Display

To enable or disable cards from a one-card display, follow these steps:

Step 1 Click the card that you want to enable or disable.

Step 2 From the Edit menu, choose **Card Properties**.

A window opens and displays the properties of the card.

Step 3 Click the **up** or **down** radio button, click **Apply**, and then click **Close**.

Enabling or Disabling Multiple Cards

To enable or disable cards from a multiple-card display, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then choose the type of card that you want to select.

Yellow selection boundaries appear around all cards of that type.

Step 2 From the Edit menu, choose **Card Properties**.

A window opens and displays a table of all of the properties of the selected cards.

Step 3 In the Enable/Disable Card column, click the status of the card that you want to enable or disable.

A drop-down menu appears.

Step 4 Choose **up** or **down**. Repeat this step for each additional card that you want to enable or disable.

Configuring Port Properties

You can use the Edit menu to configure port properties, or you can use the chassis display directly. To configure port properties from the chassis display, see the "Chassis Display Tasks" section on page 2-1. These topics describe how to configure port properties from the Edit menu:

- Configuring a Port Name, page 4-10
- Enabling or Disabling a Port, page 4-10
- Enabling or Disabling Autonegotiation, page 4-11
- Configuring Port Speed, page 4-12
- Clearing InfiniBand Port Counters, page 4-13

- Enabling or Disabling Link Up/Down Traps, page 4-14
- Executing Port Actions, page 4-15

Configuring a Port Name

These tasks rename ports from a one-port display or a multiple-port display:

- Configuring the Name of One Port, page 4-10
- Configuring Multiple Port Names, page 4-10

Configuring the Name of One Port

To configure the name of one port, follow these steps:

Step 1 Click a port with a name you want to change.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays port details.

Step 3 In the Port Name field, edit the name, click **Apply**, and then click **Close**.

Configuring Multiple Port Names

To configure names for multiple ports, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then click the type of the ports with names that you want to configure.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays a tabular layout of the properties of the ports.

Step 3 Double-click the text in the Port Name column of a port that you want to rename, and then edit the name. Repeat this step for all ports that you want to rename.

Step 4 Click **Apply**, and then click **Close**.

Enabling or Disabling a Port

These topics describe how to enable or disable ports from a one-port display or a multiple-port display:

- Enabling or Disabling One Port, page 4-11
- Enabling or Disabling Multiple Ports, page 4-11

Enabling or Disabling One Port

To enable or disable one port, follow these steps:

Step 1 Click the port that you want to enable or disable.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays port details.

Step 3 In the Enable/Disable Port field, click the **up** or **down** radio button.

Step 4 Click **Apply**, and then click **Close**.

Enabling or Disabling Multiple Ports

To enable or disable multiple ports, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then click the type of the ports that you want to enable or disable.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays a tabular layout of the properties of the ports.

Step 3 In the Enable/Disable Port column, click the cell of a port that you want to enable or disable, and then choose **up** or **down** from the drop-down menu that appears.

Step 4 Click **Apply**, and then click **Close**.

Enabling or Disabling Autonegotiation

These topics describe how to enable or disable autonegotiation on ports from a one-port display or a multiple-port display:

- Enabling or Disabling Autonegotiation from One Port, page 4-11
- Enabling or Disabling Autonegotiation from Multiple Ports, page 4-12

Enabling or Disabling Autonegotiation from One Port

To enable or disable autonegotiation on a port from one port, follow these steps:

Step 1 Click the port for which you want to enable or disable autonegotiation.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays port details.

Step 3 Check or uncheck the **Enable Auto-Negotiation** check box.

Step 4 Click **Apply**, and then click **Close**.

Enabling or Disabling Autonegotiation from Multiple Ports

To enable or disable autonegotiation on ports from multiple ports, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then click the type of the ports for which you want to enable or disable autonegotiation.

Step 2 From the Edit menu, and choose **Port Properties**.

A window opens and displays a tabular layout of the properties of the ports.

Step 3 In the Enable Auto-Negotiation column, click the cell of a port that you want to configure, and then choose **true** or **false** from the drop-down menu that appears.

Step 4 Click **Apply**, and then click **Close**.

Configuring Port Speed

These topics describe how to configure port speed from a one-port display or a multiple-port display:

- Configuring the Port Speed for One Port, page 4-12
- Configuring the Port Speed for Multiple Ports, page 4-13

Note You must disable autonegotiation on a port before you assign a speed to the port.

For an InfiniBand port connected with an SDR cable or any cable longer than 8 feet, you must manually configure the port to support SDR only.

Configuring the Port Speed for One Port

To configure port speed for one port, follow these steps:

Step 1 Click the port for which you want to configure speed.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays port details.

Step 3 For an Ethernet or Fibre Channel port, in the Set Port Speed area, click the radio button that corresponds to the speed that you want to apply. For an InfiniBand port, in the Set Port Speed area. select the speed you want to apply from the drop-down menu.

Step 4 Click **Apply**, and then click **Close**.

Configuring the Port Speed for Multiple Ports

To configure the port speed on multiple ports at once, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then click the type of the ports for which you want to configure the speed.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays a tabular layout of the properties of the ports.

Step 3 In the Set Port Speed column, click the cell of a port that you want to configure, and then choose the speed that you want to apply from the drop-down menu that appears.

Repeat this step for all ports that you want to configure.

Step 4 Click **Apply**, and then click **Close**.

Clearing InfiniBand Port Counters

These topics describe how to clear InfiniBand port counters from a one-port display or a multiple-port display:

- Clearing InfiniBand Port Counters for One Port, page 4-13
- Clearing InfiniBand Port Counters for Multiple Ports, page 4-13

See Table 7-1 on page 7-2 for descriptions of the counters reset by this procedure.

Clearing InfiniBand Port Counters for One Port

To clear InfiniBand port counters for one port, follow these steps:

Step 1 Click the port for which you want to clear the counters.

Step 2 From the Edit menu, and choose **Port Properties**.

A window opens and displays port details.

Step 3 Check the **Clear Counters** check box.

Step 4 Click **Apply**, and then click **Close**.

Clearing InfiniBand Port Counters for Multiple Ports

To clear InfiniBand port counters for multiple ports at once, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then click the type of the ports with counters you want to clear.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays a tabular layout of the properties of the ports.

Step 3 In the Clear Counters column, click the cell of a port that you want to configure, and then choose **true** from the drop-down menu that appears.

Repeat this step for all ports that you want to configure.

Step 4 Click **Apply**, and then click **Close**.

Enabling or Disabling Link Up/Down Traps

These topics explain how to enable or disable link up and link down traps from a one-port display or a multiple-port display:

- Enabling or Disabling Link Up/Down Traps from One Port, page 4-14
- Enabling or Disabling Link Up/Down Traps from Multiple Ports, page 4-14

Enabling or Disabling Link Up/Down Traps from One Port

To enable or disable up/down traps for one port, follow these steps:

Step 1 Click the port that you want to configure.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays port details.

Step 3 In the Enable Link Up/Down Trap field, click the **enabled** or **disabled** radio button.

Step 4 Click **Apply**, and then click **Close**.

Enabling or Disabling Link Up/Down Traps from Multiple Ports

To enable or disable link up/down traps for multiple ports, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then click the type of the ports you want to configure.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays a tabular layout of the properties of the ports.

Step 3 In the Enable Link Up/Down Trap column, click the cell of a port that you want to configure, and then choose **enabled** or **disabled** from the drop-down menu that appears.

Repeat this step for all ports that you want to configure.

Step 4 Click **Apply**, and then click **Close**.

Executing Port Actions

Some port types can execute specific actions. These topics describe how to execute actions from a one-port display or a multiple-port display:

- Executing a Port Action for One Port, page 4-15
- Executing a Port Action for Multiple Ports, page 4-15

Executing a Port Action for One Port

To execute an action for one port, follow these steps:

Step 1 Click the port for which you want to execute and action.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays port details.

Step 3 In the Action field, click the radio button of the action that you want to execute.

Step 4 Click **Apply**, and then click **Close**.

Executing a Port Action for Multiple Ports

To execute an action for multiple ports, follow these steps:

Step 1 From the Edit menu, choose **Select All**, and then click the type of the ports for which you want to execute and action.

Step 2 From the Edit menu, choose **Port Properties**.

A window opens and displays a tabular layout of the properties of the ports.

Step 3 In the Action column, click the cell of a port on which you want to execute an action, and then choose the action from the drop-down menu that appears.

Repeat this step for every port on which you want to execute an action.

Step 4 Click **Apply**, and then click **Close**.