Using Port Control

The Port Control web pages enable you to update network device port data and test the ports. (You must have administrator or operator privileges to use these web pages.)

This section is divided into the following three subsections:

- Changing the Port Settings for a Single Port, page 4-2—How to change the port data for a single switch, access point, or CMTS port.
- Changing the Port Settings for a Multiple Ports, page 4-6—How to change the port data for multiple switch or access point ports.
- Replacing, Adding, or Removing a Cable Modem, page 4-7—How to perform these procedures for a cable modem (CMTS port).

Changing the Port Settings for a Single Port

Follow this procedure to change the port data for a single port and test the port. To replace, add, or remove a cable modem, refer to the "Replacing, Adding, or Removing a Cable Modem" section on page 4-7.

Step 1 From the Dashboard, click **Port Control**. The Port List web page appears. Figure 4-1 shows the type of port control data that appears if you are using a switch or access point. Figure 4-2 shows the type of data that appears if you are using a CMTS.

Figure 4-1 Port List Showing Switch or Access Point Data

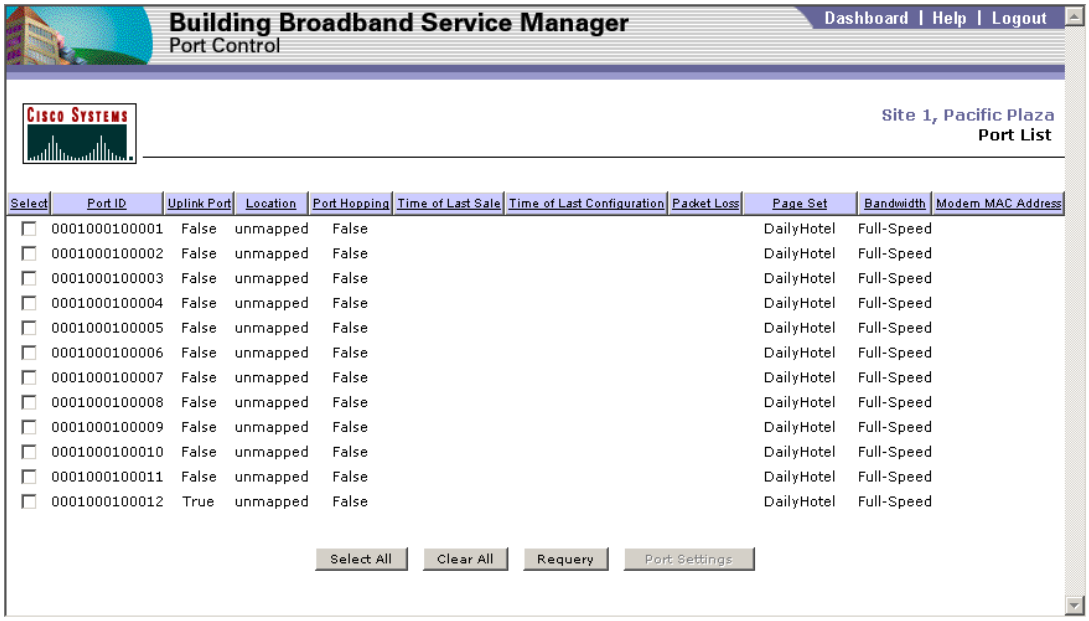
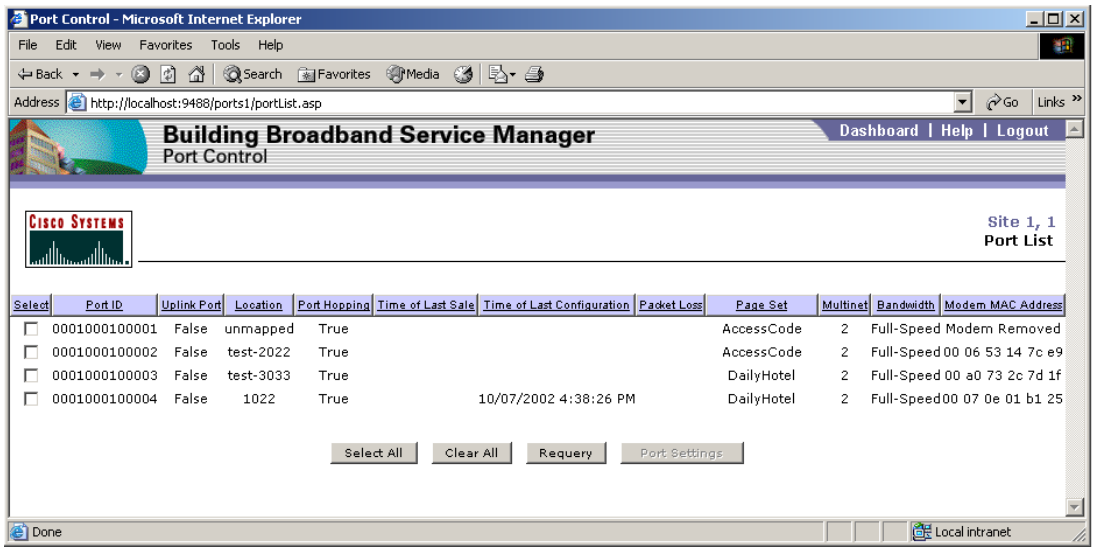


Figure 4-2 Port List Showing CMTS Data



Step 2 In the left-hand column, check the port that you want to update. (To refresh the web page, click **Requery**.)

Step 3 Click **Port Settings**. The Port Settings window for a single-port change pops up. Figure 4-3 shows the type of data that appears in the window if you are using a switch or access point. Figure 4-4 shows the type of data that appears in the window if you are using a CMTS.

Note If the fields displayed in the Port Settings window do not match the port that was checked in the Port List, press **F5** to refresh the window.

Figure 4-3 Port Control Port Settings Window Showing Switch or Access Point Data

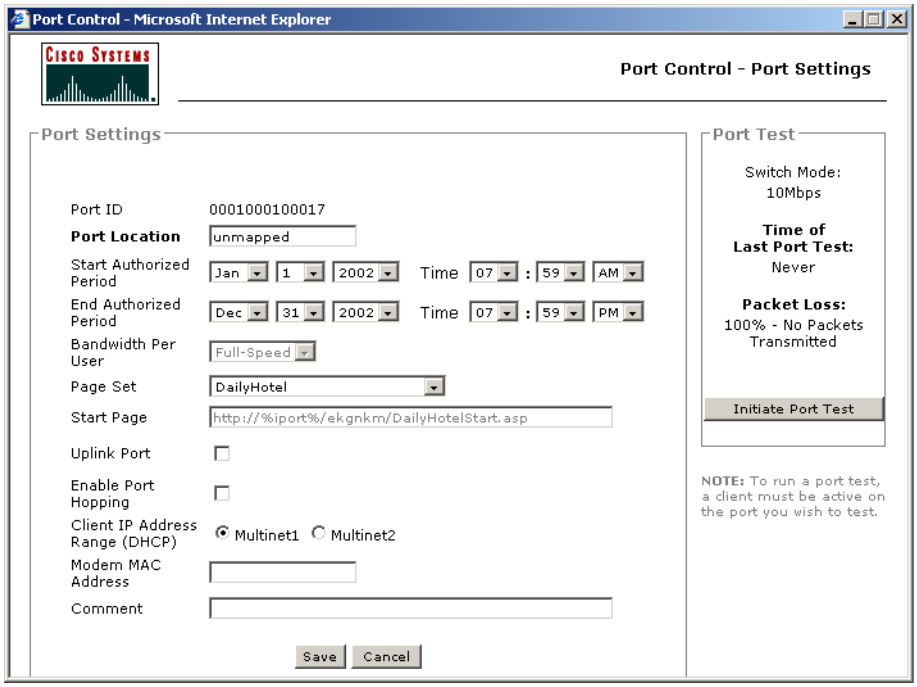
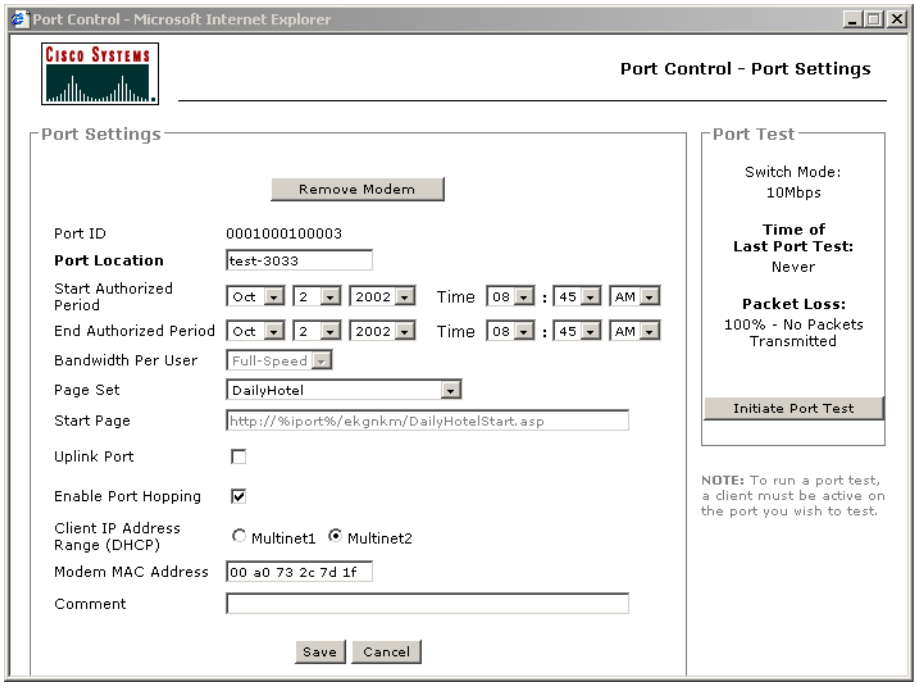


Figure 4-4 Port Control Port Settings Window Showing CMTS Data



Step 4 Make the appropriate changes based on the information in Table 4-1.

Step 5 If you want to test the port, click **Initiate Port Test i**n the Port Test pane on the right. (This step is optional and the client must be active on the port for the test to work.) After port testing, the data shown in the Port Test pane is updated to reflect the test results.

Step 6 To save the port changes, click **Save**. A confirmation dialog box appears to indicate that the changes were successful.

Step 7 To close the dialog box, click **OK**. You are returned to the Port List web page.

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Table 4-1 Port Control Port Settings Field Descriptions

Field	Description
Port Settings	
Remove Modem *(CMTS only)*	**Note** This button appears only if the port is a CMTS (cable modem) port. Click this button to remove a cable modem.
Port ID	Displays the unique number automatically assigned to each port during the Network Elements port configuration. This number cannot be changed. The port ID incorporates the cluster, switch, and port number on the switch. The format is *xxxxyyyyzzzzz*, where *xxxx* is the cluster, *yyyy* is the switch, and *zzzzz* is the port.
Port Location	Enter the location (or room number) associated with this port. This location can be a number or text. **Caution** If you enter port locations the first time using this field, there is no way to verify that ports have been mapped to the correct room number. The only way to ensure that your port-room mapping is accurate is to use the Map Rooms option from the Dashboard. After locations have been mapped the first time, you can update the locations using this field.
Start Authorized Period *(Subscription page set only)*	If the port is configured for the Subscription page set, enter the starting date and time of the period that the port is authorized for use. The default is the time that the port was configured.
End Authorized Period *(Subscription page set only)*	If the port is configured for the Subscription page set, enter the ending date and time of the period that the port is authorized for use. The default is the time that the port was configured.
Bandwidth Per User	From the drop-down menu, choose the default bandwidth (in kbps) for all users who will be connected to the port. (Bandwidth is applied by IP address, not by port, and is effective only if Bandwidth Management is enabled.) The value is a number from 0 to 2000000 (for example, *2 Gbps*), 0 representing the maximum bandwidth available. The default is *Full-Speed*. (For information on enabling Bandwidth Management, refer to the chapter on configuring the network and bandwidth management in the *Cisco BBSM 5.3 Configuration Guide.*
Page Set	From the drop-down menu, choose the page set to be used by the port.
Start Page	Enter the complete URL of the Start page for your page set. The URL must be in the form *http://%iport%...* because BBSM translates *%iport%* to be either the BBSM internal IP address or the BBSM domain name, if applicable.
Uplink Port	Check this check box if the port is used as an uplink to another switch. BBSM ignores the MAC addresses on these uplink ports so it does not report that clients are connected to the ports.
Enable Port Hopping	Check this check box if you want to enable port hopping.
Client IP Address Range (DHCP)	If you are using multiple networks, click the default multinet number for clients connected to this network device: Multinet 1 or Multinet 2.
Modem MAC Address *(CMTS only)*	**Note** This field is blank and read only for switches and access points. For CMTSs, this field displays the cable modem MAC address. If you need to change the MAC address, the format is *xx xx xx xx xx xx*, such as *0 a0 73 2c 7d 1f*.
Comment	Use this field to enter additional information about this port.

Table 4-1 Port Control Port Settings Field Descriptions (continued)

Field	Description
Port Test	
Switch Mode	Displays the bandwidth rate.
Time of Last Port Test	Displays the last date and time that the port was tested.
Packet Test	Displays the percentage of packets that were transmitted.
Initiate Port Test	Click to begin testing the port.
Buttons	
Save	Saves the changes.
Cancel	Cancels the changes and returns you to the Port Control web page.

Changing the Port Settings for a Multiple Ports

Follow this procedure to change the port data for multiple ports and test the ports.

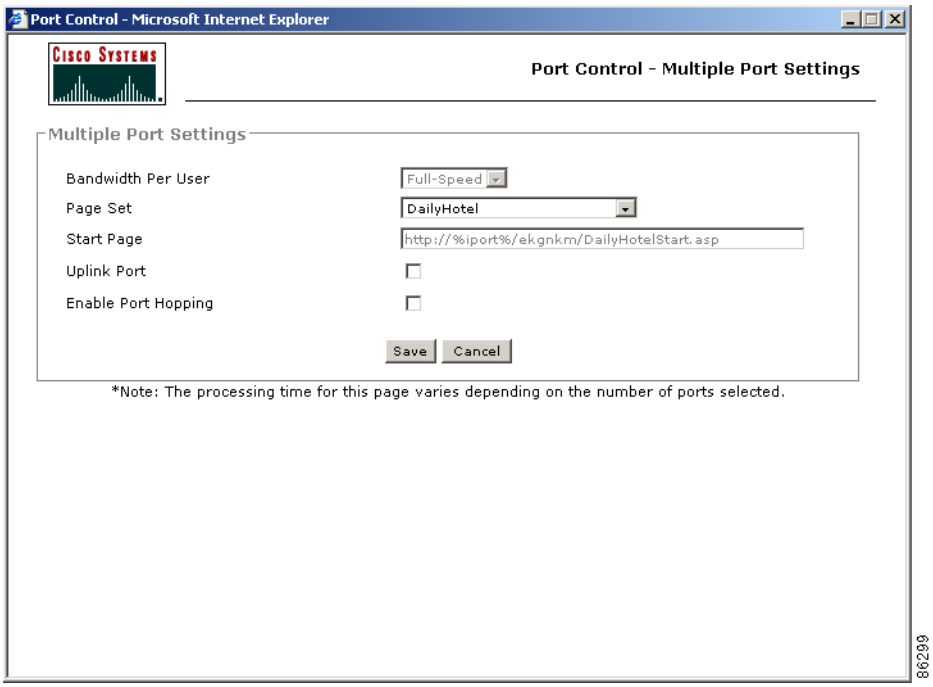
Step 1 From the Dashboard, click **Port Control**. The Port Control web page appears. (See Figure 4-1.)

Step 2 In the left-hand column, check the ports that you want to update.

Step 3 Click **Port Settings**. The Port Settings window for multiple-port changes pops up. (See Figure 4-5.)

Note If the fields displayed in the Port Settings window do not match the ports that were checked in the Port List, press **F5** to refresh the window.

Figure 4-5 Port Control Port Settings Pop-up Window for Multiple Ports



Step 4 Make the appropriate changes based on the field descriptions shown in Table 4-1. This table also shows the fields that only apply to single-port changes. (Before making any changes, be sure that the Port ID and room or location number correspond to the port you want to change.)

Step 5 Click **Save**. A confirmation dialog box appears to show that the changes were successful, what fields were changed, and the changed values.

Step 6 Click **OK** to close the dialog box. You are returned to the Port Control web page.

Replacing, Adding, or Removing a Cable Modem

Follow this procedure to add, replace, or remove a cable modem.

Step 1 From the Dashboard, click **Port Control**. The Port List web page appears.

Step 2 In the left-hand column, check a cable modem port:

- If you are replacing or removing a cable modem, check the appropriate port. (See Figure 4-2.)
- If you are adding a cable modem, you must check a spare port. When a spare port is available, the port is designated by *Modem Removed* in the Modem MAC Address field.

(To refresh the web page, click **Requery**.)

Step 3 Click **Port Settings**. The Port Settings window pops up (Figure 4-4):

- To add or replace a modem, enter the new MAC address in the Modem MAC address field and click **Save**. The format is *xx xx xx xx xx xx*, such as *0 a0 73 2c 7d 1f*. A confirmation dialog box appears to indicate that the changes were successful.
- To remove a modem, click the **Remove Modem** button. A confirmation dialog box appears to indicate that the changes were successful.

Note If the fields displayed in the Port Settings window do not match the port that was checked in the Port List, press **F5** to refresh the window.

Step 4 To close the dialog box, click **OK**. You are returned to the Port List web page.

Note You can always add or replace a modem by using the dynamic CMTS port-room configuration. Refer to the section on dynamic port-room configuration for CMTSs in the *Cisco BBSM 5.3 Configuration Guide*.