



## Using Port Control

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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:

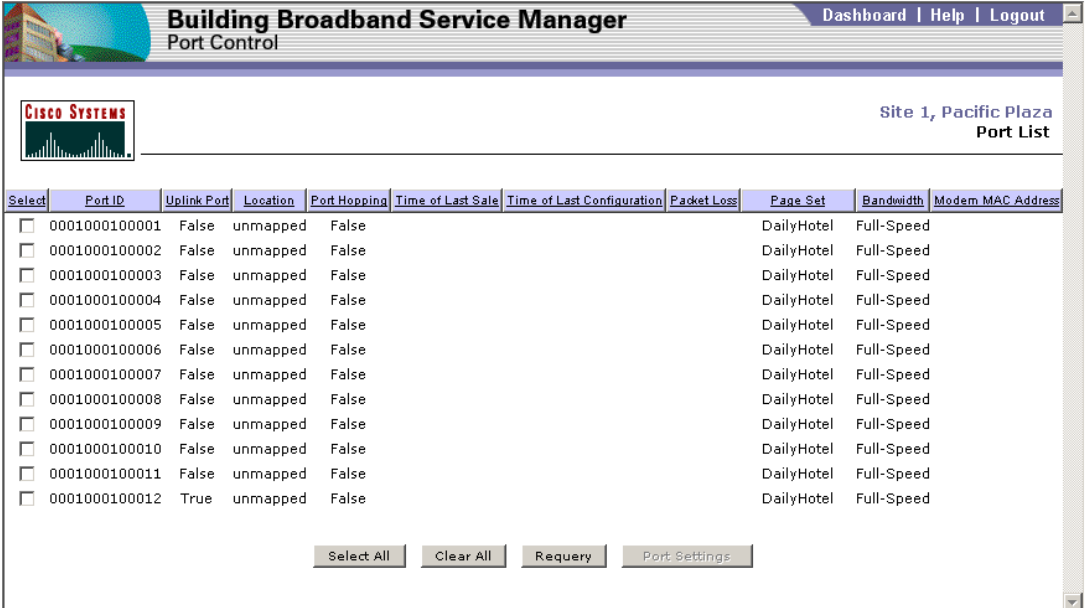
- [Changing the Port Settings for a Single Port, page 4-2](#)—How to change the port data for a single switch, access point, or CMTS port.
- [Changing the Port Settings for a Multiple Ports, page 4-6](#)—How to change the port data for multiple switch or access point ports.
- [Replacing, Adding, or Removing 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



The screenshot shows the 'Building Broadband Service Manager' interface with the 'Port Control' section. The page title is 'Site 1, Pacific Plaza Port List'. Below the title is a table with columns: Select, Port ID, Uplink Port, Location, Port Hopping, Time of Last Sale, Time of Last Configuration, Packet Loss, Page Set, Bandwidth, and Modem MAC Address. The table contains 12 rows of data. At the bottom of the table are four buttons: 'Select All', 'Clear All', 'Requery', and 'Port Settings'.

Select	Port ID	Uplink Port	Location	Port Hopping	Time of Last Sale	Time of Last Configuration	Packet Loss	Page Set	Bandwidth	Modem MAC Address
<input type="checkbox"/>	0001000100001	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100002	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100003	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100004	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100005	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100006	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100007	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100008	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100009	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100010	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100011	False	unmapped	False				DailyHotel	Full-Speed	
<input type="checkbox"/>	0001000100012	True	unmapped	False				DailyHotel	Full-Speed	

Figure 4-2 Port List Showing CMTS Data

The screenshot shows a web browser window titled "Port Control - Microsoft Internet Explorer" with the address bar displaying "http://localhost:9488/ports1/portList.asp". The page header includes "Building Broadband Service Manager" and "Port Control". A Cisco Systems logo is visible on the left, and "Site 1, 1 Port List" is on the right. The main content is a table with the following data:

Select	Port ID	Uplink Port	Location	Port Hopping	Time of Last Sale	Time of Last Configuration	Packet Loss	Page Set	Multinet	Bandwidth	Modem MAC Address
<input type="checkbox"/>	0001000100001	False	unmapped	True				AccessCode	2	Full-Speed Modem Removed	
<input type="checkbox"/>	0001000100002	False	test-2022	True				AccessCode	2	Full-Speed 00 06 53 14 7c e9	
<input type="checkbox"/>	0001000100003	False	test-3033	True				DailyHotel	2	Full-Speed 00 a0 73 2c 7d 1f	
<input type="checkbox"/>	0001000100004	False	1022	True		10/07/2002 4:38:26 PM		DailyHotel	2	Full-Speed 00 07 0e 01 b1 25	

Below the table are four buttons: "Select All", "Clear All", "Requery", and "Port Settings".

**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

The screenshot shows the 'Port Control - Port Settings' window in Microsoft Internet Explorer. The window title is 'Port Control - Microsoft Internet Explorer'. The Cisco Systems logo is in the top left. The main content is divided into two panels: 'Port Settings' and 'Port Test'.

**Port Settings:**

- Port ID: 0001000100017
- Port Location: unmapped
- Start Authorized Period: Jan 1, 2002 Time 07:59 AM
- End Authorized Period: Dec 31, 2002 Time 07:59 PM
- Bandwidth Per User: Full-Speed
- Page Set: DailyHotel
- Start Page: http://%iport%/ekgnkm/DailyHotelStart.asp
- Uplink Port:
- Enable Port Hopping:
- Client IP Address Range (DHCP):  Multinet1  Multinet2
- Modem MAC Address:
- Comment:

**Port Test:**

- Switch Mode: 10Mbps
- Time of Last Port Test: Never
- Packet Loss: 100% - No Packets Transmitted

Buttons: Save, Cancel, Initiate Port Test

NOTE: To run a port test, a client must be active on the port you wish to test.

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

The screenshot shows the 'Port Control - Port Settings' window in Microsoft Internet Explorer. The window title is 'Port Control - Microsoft Internet Explorer'. The Cisco Systems logo is in the top left. The main content is divided into two panels: 'Port Settings' and 'Port Test'.

**Port Settings:**

- Remove Modem button
- Port ID: 0001000100003
- Port Location: test-3033
- Start Authorized Period: Oct 2, 2002 Time 08:45 AM
- End Authorized Period: Oct 2, 2002 Time 08:45 AM
- Bandwidth Per User: Full-Speed
- Page Set: DailyHotel
- Start Page: http://%iport%/ekgnkm/DailyHotelStart.asp
- Uplink Port:
- Enable Port Hopping:
- Client IP Address Range (DHCP):  Multinet1  Multinet2
- Modem MAC Address: 00 a0 73 2c 7d 1f
- Comment:

**Port Test:**

- Switch Mode: 10Mbps
- Time of Last Port Test: Never
- Packet Loss: 100% - No Packets Transmitted

Buttons: Save, Cancel, Initiate Port Test

NOTE: To run a port test, a client must be active on the port you wish to test.

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**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** in 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.

<sup>f</sup> **Table 4-1 Port Control Port Settings Field Descriptions**

Field	Description
<b>Port Settings</b>	
Remove Modem ( <i>CMTS only</i> )	<b>Note</b> 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 xxxxyyyzzzzz, 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.  <b>Caution</b> 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 ( <i>Subscription page set only</i> )	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 ( <i>Subscription page set only</i> )	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 <i>Full-Speed</i> .  (For information on enabling Bandwidth Management, refer to the chapter on configuring the network and bandwidth management in the <i>Cisco BBSM 5.3 Configuration Guide</i> .)
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 <i>http://%iport%...</i> because BBSM translates <i>%iport%</i> 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 ( <i>CMTS only</i> )	<b>Note</b> 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 <i>xx xx xx xx xx xx</i> , such as <i>0 a0 73 2c 7d 1f</i> .
Comment	Use this field to enter additional information about this port.

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

Field	Description
<b>Port Test</b>	
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.
<b>Buttons</b>	
Save	Saves the changes.
Cancel	Cancel the changes and returns you to the Port Control web page.

## Changing the Port Settings for a Multiple Ports

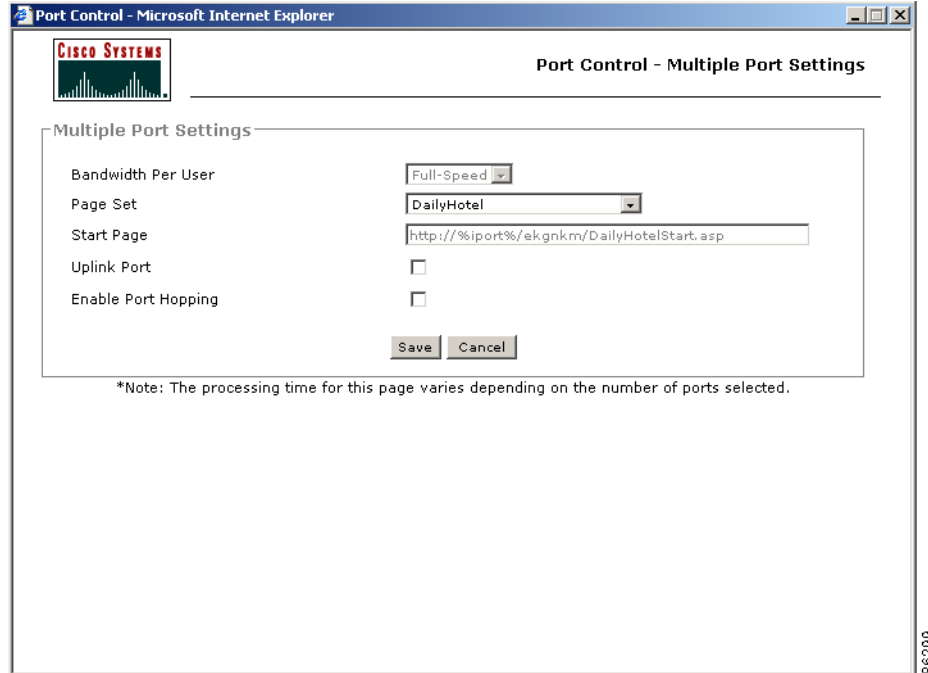
Follow this procedure to change the port data for multiple ports and test the ports.

- 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.



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**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.

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



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**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*.

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