



CHAPTER 1

Configuring the Cisco Unified Videoconferencing 3545 MCU

This section describes the following topics:

- [Configuring Cisco Unified Videoconferencing 3545 Chassis Parameters, page 1-1](#)
- [About the Cisco Unified Videoconferencing 3545 MCU Administrator Interface, page 1-4](#)
- [About Administrators and Operators, page 1-6](#)
- [Viewing LED Information for the 3545 MCU, page 1-8](#)
- [Viewing General Information About the 3545 MCU, page 1-8](#)
- [Viewing Address Settings for the 3545 MCU, page 1-11](#)
- [Configuring Security for the 3545 MCU, page 1-13](#)

Configuring Cisco Unified Videoconferencing 3545 Chassis Parameters

If your MCU module is installed in the top slot of the Cisco Unified Videoconferencing 3545 chassis, then the module also performs PCI bus functions for the chassis. In the MCU interface, you can use the System section to monitor chassis functions remotely.

One of the functions the chassis performs is to monitor ambient temperature. You can set temperature thresholds in the System section. The chassis uses these thresholds to trigger a warning that the ambient temperature exceeds specification and when the temperature has returned to five degrees below the warning threshold.

Related Topics

- [Viewing the System Section for the Cisco Unified Videoconferencing 3545 MCU, page 1-2](#)
- [Setting Chassis Temperature Thresholds for the 3545 MCU, page 1-3](#)
- [Refreshing the System Section for the 3545 MCU, page 1-3](#)

Viewing the System Section for the Cisco Unified Videoconferencing 3545 MCU

You can view the System section by selecting it in the MCU interface.

Procedure

- Step 1** Access the MCU interface.
- Step 2** On the sidebar, click **System**.

[Table 1-1](#) lists the elements that appear in the System section.

Table 1-1 System Elements

Element	Description
Information section	<p>This section provides the following information about the Cisco Unified Videoconferencing 3545 chassis hardware:</p> <ul style="list-style-type: none"> Serial number—Displays the serial number of the chassis. Part number—Displays the part number of the chassis. System configuration—Identifies the hardware configuration the chassis uses.
Temperature threshold	<p>In this section, you can set the following temperature values that the chassis uses to trigger changes in the ambient temperature status:</p> <ul style="list-style-type: none"> Low—Enter the temperature value at which the MCU module turns off the chassis temperature alarm. The value is measured in Celsius. High—Enter the temperature value above which the MCU module turns on the chassis temperature alarm. The value is measured in Celsius.
Status section	<p>These LEDs provide information about chassis operation.</p> <ul style="list-style-type: none"> Power—This LED lights green for normal operation. It lights red when one power supply fails. Alarm—This LED lights green for normal operation. It lights red when a system failure occurs. Fans—This LED lights green for normal operation. It lights red when one or more fans fail. A message then appears indicating which fan has failed. Temperature—This LED lights green for normal operation. It is red when the chassis determines that the ambient temperature rises above the high temperature threshold. The LED blinks when the falling ambient temperature crosses the high threshold to within five degrees of the high threshold.

Related Topics

- [Setting Chassis Temperature Thresholds for the 3545 MCU, page 1-3](#)
- [Refreshing the System Section for the 3545 MCU, page 1-3](#)

Setting Chassis Temperature Thresholds for the 3545 MCU

In the System section, you can set critical and safe temperatures for the Cisco Unified Videoconferencing 3545 chassis.

Procedure

- Step 1** Launch the MCU interface of the module installed in the top slot of the chassis.
- Step 2** On the sidebar, click **System**.
- Step 3** In the High field, enter a Celsius value for the critical temperature threshold.
We recommend that you set this critical threshold to 40°C.
The Alarm and Temperature LEDs both light red when the operating temperature inside the chassis rises above this value.
- Step 4** In the Low field, enter a Celsius value for the safe temperature threshold.
We recommend that you set this safe threshold to 35°C.
The Alarm and Temperature LEDs both light green when the operating temperature inside the chassis falls below this value.
The Alarm and Temperature LEDs both light red when the difference between the temperatures recorded by the High and Low sensors is greater than 5°C, and both temperatures are above the value set in the High field.
The Alarm and Temperature LEDs both blink green when the difference between the temperatures recorded by the High and Low sensors is greater than 5°C, and at least one of the temperatures is below the value set in the High field.
- Step 5** Click **Upload** to save your changes.
- Step 6** Click **Refresh** to refresh the MCU interface System section.
-

Refreshing the System Section for the 3545 MCU

You can refresh the information that appears in the System section to provide the latest MCU status.

Procedure

- Step 1** In the MCU interface, make sure that **System** is selected on the sidebar.
- Step 2** Click **Refresh**.
-

About the Cisco Unified Videoconferencing 3545 MCU Administrator Interface

In the Cisco Unified Videoconferencing 3545 MCU Administrator interface, you can configure management policies, media processing, call management protocols, and services. [Table 1-2](#) explains the tabs that appear in the Cisco Unified Videoconferencing 3545 MCU Administrator interface.

Table 1-2 *MCU Administrator Interface Tabs*

Tab Name	Description
Status	Enables you to view resource usage information and the number of calls and conferences currently in progress.
Settings	Enables you to define the MCU mode of operation.
Media Processing	Enables you to view the data and video processors and servers currently registered with the MCU and access the web interface (if available) of registered devices to modify settings.
Protocols	Enables you to set the gatekeeper IP address and the Session Initiation Protocol (SIP) registrar address for routing calls to the MCU from H.323, Skinny Client Control Protocol (SCCP), and Session Initiation Protocol (SIP) endpoints.
Services	Enables you to view, configure and edit the services that the MCU provides.
Event Log	Enables you to view MCU alarm events.

[Table 1-2](#) and [Table 1-3](#) display and list the elements in the MCU Administrator interface.

Figure 1-1 MCU Administrator Interface Elements

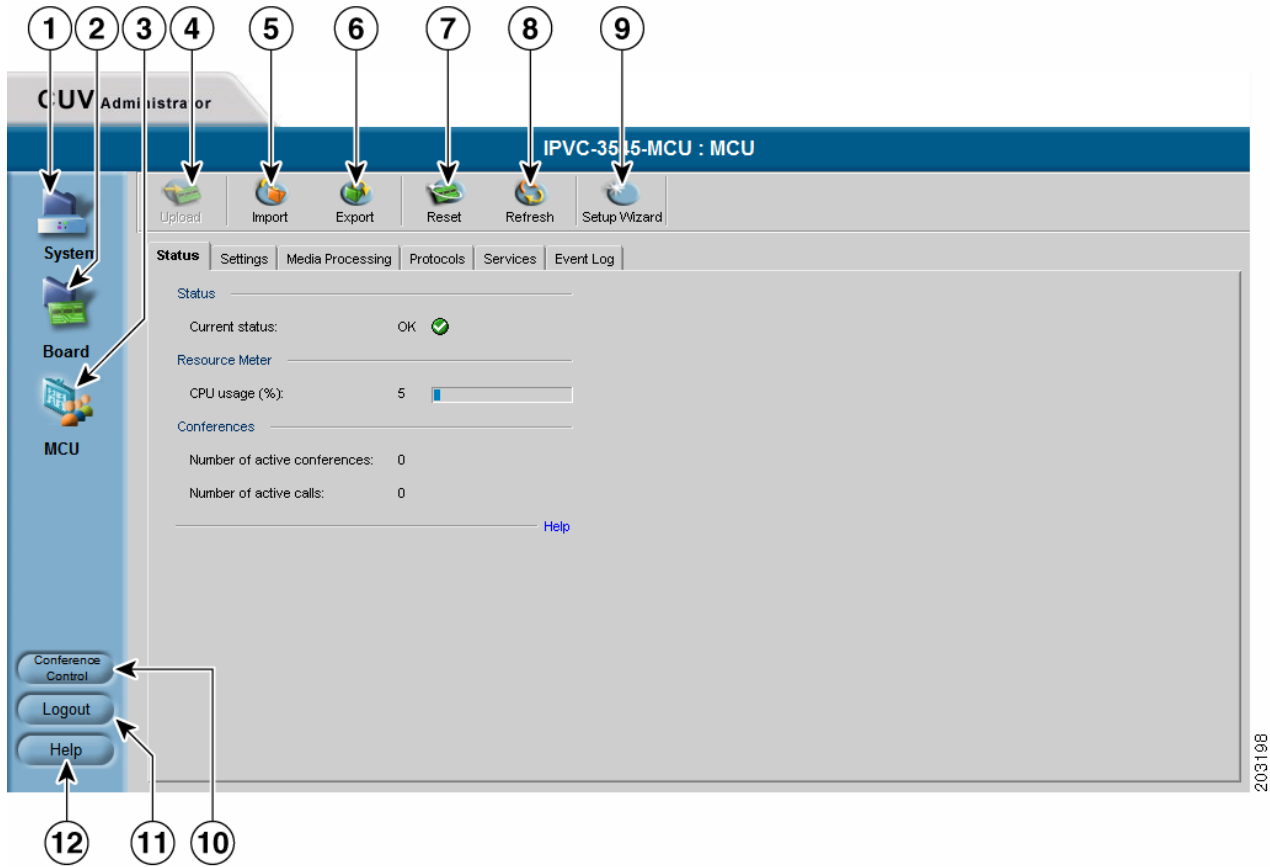


Table 1-3 MCU Administrator Interface Elements

Number	Description
1	System button
2	Board button
3	MCU button
4	Upload button
5	Import button
6	Export button
7	Reset button
8	Refresh button
9	Set Up Wizard button
10	Help button
11	Logout button
12	Conference Control button

About Administrators and Operators

Users must have authorization to access the MCU interface. You can also require users to have Operator-level access to perform management functions during conference calls.

- [Viewing Administrators and Operators, page 1-6](#)
- [Adding Administrators and Operators, page 1-6](#)
- [Editing Administrator and Operator Settings, page 1-7](#)
- [Deleting Administrators and Operators, page 1-8](#)

Viewing Administrators and Operators

In the Users tab in the Board interface, you can view user names that are registered with this MCU and their access level. [Table 1-4](#) lists the elements that appear in the Users tab.

Table 1-4 *User Tab Elements*

Field	Description
Name	The user login name.
Access Level	The access privilege assigned to the user.
Telnet/FTP	Indicates whether the user is authorized to use Telnet or FTP to access the MCU. Telnet and FTP access is intended for maintenance of the MCU.

Adding Administrators and Operators

In the Users tab in the Board interface, you can add Administrators and Operators.

Procedure

-
- Step 1** In the Administrator interface, on the sidebar, click Board.
- Step 2** Click the **Users** tab.
- Step 3** Click **Add**.
- The Add User dialog box appears.
- Step 4** In the User name field, enter the name you want the Administrator or Operator to log in with.
- Step 5** In the Access Level field, choose the required authorization level for this user:
- Administrator—Allows this user to launch the Administrator interface, use the Conference List that has links to web pages of current conferences, share conference moderation with another user, and access this device through Telnet, FTP, and the Cisco Upgrade Utility. You can assign up to ten users Administrator authorization.
 - Operator—Allows this user to share conference moderation with another user and to access the Conference List that has links to web pages of current conferences. Up to 50 users can be assigned Operator authorization.
- Step 6** In the Password field, enter the password this user uses to log in with.

Passwords can contain a maximum of 32 characters and can include the “a-z”, “A-Z” and “0-9” characters only.

- Step 7** In the Confirm password field, re-enter the password you entered in step 6.
- Step 8** Select **Enable for Telnet/FTP** to allow this user to access this device through Telnet and FTP. Telnet and FTP access is intended for maintenance of the MCU
- Step 9** On the toolbar, click Upload.
-

Editing Administrator and Operator Settings

In the Users tab in the Board interface, you can edit the settings for a user with Administrator or Operator-level access.

Procedure

- Step 1** In the Administrator interface, on the sidebar, click Board.
- Step 2** Click the **Users** tab.
- Step 3** Click the user you want to edit settings for.
- Step 4** Click **Edit**
- The Edit User dialog box appears.
- Step 5** In the User name field, enter the name you want the Administrator to log in with.
- Step 6** In the Access Level field, choose the authorization level for this user:
- Administrator—Allows this user to launch the Administrator interface, use the Conference List that has links to web pages of current conferences, share conference moderation with another user, and access this device through Telnet, FTP, and the Cisco Upgrade Utility. You can assign up to ten users Administrator authorization.
 - Operator—Allows this user to share conference moderation with another user and to access the Conference List that has links to web pages of current conferences. Up to 50 users can be assigned Operator authorization.
- Step 7** In the Password field, enter the password this user uses to log in with.
- Step 8** In the Repeat Password field, re-enter the password you entered in step 6.
- Step 9** Select **Enable for Telnet/FTP** to allow this user to access this device through Telnet and FTP.
- Step 10** On the toolbar, click **Upload**.
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Deleting Administrators and Operators

You can delete users with Administrator or Operator-level access from the MCU system.

Procedure

- Step 1** In the Administrator interface, on the sidebar, click **Board**.
 - Step 2** Click the **Users** tab.
 - Step 3** Click the user you want to delete and then click **Delete**.
-

Viewing LED Information for the 3545 MCU

In the LED Monitoring tab in the Board interface, you can monitor the status of all the MCU front panel LED indicators. The LEDs are displayed in diagrams reproducing the layout of the MCU front panel.

Procedure

- Step 1** In the MCU interface, on the sidebar, click **Board**.
 - Step 2** Click the **LED Monitoring** tab.
 - Step 3** Place the mouse cursor over the required LED in the LED Monitoring tab to view a description of that LED.
-

Viewing General Information About the 3545 MCU

The Basics tab in the Board section of the MCU interface, you can view and configure general information about the MCU.

Procedure

- Step 1** In the MCU interface, on the sidebar, click **Board**.
- Step 2** Click the **Basics** tab.
[Table 1-5](#) describes the elements that appear in the Basics tab.

Table 1-5 Board Basic Tab Elements

Field	Description
Board	Identifies the model number of the board or device.
Location	User-configured description about the device. Click this field to enter a new description, and then click Upload on the toolbar.
Slot number	The number of the cPCI slot in the Cisco Unified Videoconferencing 3545 chassis in which this Cisco Unified Videoconferencing 3545 MCU is inserted.
Serial number	The serial number that the factory assigned to the device.
Hardware version	The version number of the current hardware configuration.
Date/Time	The date and time that the Cisco Unified Videoconferencing 3545 MCU clock reports.

Related Topics

- [Viewing Software Version Details, page 1-9](#)
- [Setting the Time and Date on the MCU, page 1-9](#)
- [Setting the MCU Location, page 1-10](#)

Viewing Software Version Details

You use the Basics tab to view expanded software version information.

Procedure

-
- Step 1** On the sidebar, click Board.
- Step 2** Click the **Basics** tab.
- Step 3** Locate the Software version field and click **Details**.
The Version Details dialog box appears.
-

Setting the Time and Date on the MCU

In the Basics tab, you can set the date and time that the MCU keeps.

Procedure

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- Step 1** In the Administrator interface, on the sidebar, click Board.
- Step 2** Make sure the Basics tab is selected.
- Step 3** Next to the Date/Time field, click **Change**.

The Change Time dialog box appears. The date and time the MCU reports appear in the Set time to field.

Step 4 In the Change field, select the unit of time that you want to change.



Note There is no unit to change AM and PM. This designation rolls automatically when the hour rolls past 12 backward or forward. Similarly, seconds roll minutes, minutes roll hours, hours roll days, and days roll months.

Step 5 In the **Set board time to** field, choose the up or down arrow to change that unit.

The unit you choose changes in the direction you choose: higher (up) or lower (down).

Step 6 Repeat step 4 and step 5 for as many units as you want to change.

Step 7 Select **NTP enabled** to synchronize the time with a network server clock, and to select time zone settings.

Step 8 On the toolbar, click **Upload**.

Setting the MCU Location

You can install the MCU anywhere on your network including at a remote site. In the Basics tab, you can describe the current location of the MCU.

Procedure

Step 1 On the sidebar, click Board.

Step 2 Click the **Basics** tab.

Step 3 In the Location field, enter the location information about the MCU that you want to display.
The field displays up to 23 characters.

Step 4 On the toolbar, click **Upload** to save to configuration memory.

Viewing Address Settings for the 3545 MCU

In the Addressing tab, you can view address information for the MCU such as IP address information, Domain Name Server (DNS) information and Ethernet port speed and duplex. [Table 1-6](#) describes the elements that appear on the Addressing tab.

Table 1-6 Addressing Tab Elements

Field	Description
IP Address	
IP Address	The IP address assigned to the MCU.
Router IP	The address of the router that the MCU uses.
Subnet Mask	The subnet address that the MCU uses.
DNS	
DNS suffix	The DNS alias that the MCU uses.
Preferred DNS Server	The IP address of the primary DNS server that the MCU uses.
Alternate DNS server	The IP address of the alternative DNS server that the MCU uses.
Ethernet	
Port type	Displays information about the Ethernet connection (read-only).
Port settings	The Ethernet speed and duplex that the MCU uses.
MAC address	Displays the Mandatory Access Control (MAC) code assigned to the MCU (read-only).
Port status	Displays the actual Ethernet speed and duplex the MCU uses on the network (read-only).

Related Topics

- [Changing Address Settings, page 1-11](#)

Changing Address Settings

In the Addressing tab, you can change the following address information for the MCU—IP address information, DNS information and the Ethernet port speed and duplex.

Procedure

- Step 1** In the Administrator interface, on the sidebar, click Board.
- Step 2** Click the **Addressing** tab.
- Step 3** To change an IP address setting, do any of the following steps:
 - In the IP Address field, enter the IP address you want to assign to the MCU.

- In the Router IP field, enter the IP address of the router you want the MCU to use.
 - In the Subnet Mask field, enter the subnet mask you want the MCU to use.
- Step 4** To change or add DNS information, do the following steps:
- In the DNS suffix field, enter the alias you want to assign to the current MCU.
 - In the Preferred DNS server field, enter the IP address of the primary DNS server that you want the MCU to use.
 - In the Alternate DNS server field, enter the IP address of the back-up DNS server that you want the MCU to use.
- Step 5** In the Port settings field, choose the Ethernet port and duplex speed value you want to set.
- Step 6** On the toolbar, click **Upload**.
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Related Topics

- [Viewing Address Settings for the 3545 MCU, page 1-11](#)

Changing Web Settings

On the Web tab you can set the administrator web server port, the online help URL, and create or import a web server certificate.

- [Changing the Administrator Interface Web Server Port for the 3545 MCU, page 1-12](#)
- [Creating and Importing a Web Server Certificate, page 1-12](#)

Changing the Administrator Interface Web Server Port for the 3545 MCU

In the General section, in the Web server port field, 80 is the default Administrator interface web server port. For additional security, you can modify the web server port in the Web tab.

Procedure

-
- Step 1** In the Administrator interface, on the sidebar, click Board.
- Step 2** Click the **Web** tab.
- Step 3** In the Web server port field, enter the port number.
- Step 4** On the toolbar, click **Upload**.
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Creating and Importing a Web Server Certificate

In the HTTPS section, click **Manage Certificate** to create a web server certificate with the wizard or click **Import Certificate** to import an existing certificate.

Configuring Security for the 3545 MCU

You can configure the access that external programs have to the MCU. These external programs include Telnet, Simple Network Management Protocol (SNMP), File Transfer Protocol (FTP) and ICMP (Internet Control Message Protocol or “ping”).

Procedure

- Step 1** In the Administrator interface, on the sidebar, click Board.
- Step 2** Click the **Security** tab.
- Step 3** From the Security mode field, choose the access level you want the MCU to support:
- Standard—Allows SNMP, Telnet, FTP, and ICMP to access the MCU.
 - High (no Telnet or FTP)—Allows access to the MCU only through SNMP and ICMP.
 - Maximum (no Telnet, FTP, SNMP, or ICMP)—Disallows external programs to access the MCU.
- Step 4** In the SNMP Read community and Write community fields, enter default strings used to enable SNMP communication between the MCU and an external application such as the Cisco Upload Utility.
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