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**Note:** The Cisco WebEx Node for MCS CLI is not the same as the Application Server CLI. For information about the Application Server CLI, see [Using the Command-Line Interface \(CLI\) on the Cisco Unified MeetingPlace Application Server module](#).

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## Cisco WebEx Node for MCS CLI User Level Options

CLI User Level	Description
wbxadmin	<ul style="list-style-type: none"> <li>• Used for all tasks in the Cisco WebEx Node for MCS CLI.</li> <li>• We recommend that you use this user level whenever possible.* If you sign in as wbxadmin on either the console or SSH, you go to the Cisco WebEx Node for MCS CLI.</li> </ul>
root	<ul style="list-style-type: none"> <li>• Highest authority. Only use for maintenance.</li> <li>• If you sign in as root (which you can only do on the console), you go to the standard Linux CLI.* You need to enter the root password for privileged commands.</li> </ul>

### Related Topics

- [Signing In to the Cisco WebEx Node for MCS CLI By Using the Console](#)
- [Signing In to the Cisco WebEx Node for MCS CLI By Using SSH](#)

## Restrictions for the Cisco WebEx Node for MCS CLI

- The Cisco WebEx Node for MCS CLI and its commands are available only in English.
- The Cisco WebEx Node for MCS CLI accepts only the standard 128 ASCII characters.
- Many commands prompt you for information. If the Backspace key does not delete characters in this interactive mode, press the **Delete** key to delete the previous character.

## How to Sign In to the Cisco WebEx Node for MCS CLI

- [Signing In to the Cisco WebEx Node for MCS CLI By Using the Console](#)
- [Signing In to the Cisco WebEx Node for MCS CLI By Using SSH](#)

### Signing In to the Cisco WebEx Node for MCS CLI By Using the Console

You can use the console to do one of the following:

- Sign in to the Cisco WebEx Node for MCS CLI as the *wbxadmin* user.
- Sign in to the Linux terminal as the *root* user.

You cannot sign in directly to the Cisco WebEx Node for MCS CLI as the root user.

**Procedure**

1. Connect the monitor, keyboard, and mouse to the Cisco WebEx Node for MCS.  
The Cisco Unified Communications system sign-in page is displayed.
2. For the username, enter **wbxadmin**.
3. Enter the password for the wbxadmin user. This was established during installation.  
The system displays the CLI. You can now enter commands.
4. When you are finished with the CLI, either enter **exit**.  
**Note:** Always sign out of the Cisco Unified Communications system when you are finished.

**Related Topics**

- [Signing In to the Cisco WebEx Node for MCS CLI By Using SSH](#)
- [Cisco WebEx Node for MCS CLI Command Reference](#)
- [Changing the Password for root or wbxadmin on the Cisco WebEx Node for MCS in the Changing System Administrator Passwords for Cisco Unified MeetingPlace module](#)

**Signing In to the Cisco WebEx Node for MCS CLI By Using SSH**

You can sign in as the *wbxadmin* user to the CLI by using SSH. You cannot, however, sign in as the *root* user to the CLI by using SSH.

This section describes one method of signing in to the CLI by using SSH. Other methods might be available for you.

**Before You Begin**

You need a remote connection with a non-configurable terminal emulation program, such as the Windows SSH client, to sign in to the CLI remotely by using SSH.

**Procedure**

1. From your computer, go to **Start > Programs > SSH Secure Shell > Secure Shell Client**.
2. Click **Quick Connect**.
3. In the Connect to Remote Host dialog box, enter these values:

Field	Value
Host Name	IP address of your Cisco WebEx Node for MCS
User Name	wbxadmin
Port Number	22

Authentication Method	leave as <Profile Settings>
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4. Click **Connect**.
  5. In the Enter Password dialog box, enter the password for the wbxadmin user. This was established during installation.
  6. Click **OK**.
- The system displays the CLI, and you can now enter commands.

**Related Topics**

- [Signing In to the Cisco WebEx Node for MCS CLI By Using the Console](#)
- [Cisco WebEx Node for MCS CLI Command Reference](#)

## Cisco WebEx Node for MCS CLI Command Reference

- [Command Syntax Conventions](#)
- [Using the Cisco WebEx Node for MCS CLI](#)
- [General Commands](#)
- [Service Commands](#)
- [Set Commands](#)
- [Show Commands](#)
- [Utility Commands](#)

### Command Syntax Conventions

This document uses these command syntax conventions.

Convention	Description
<b>bold</b>	Bold text indicates commands and parameters that you enter as shown.
<i>italic</i>	Italic text indicates parameters for which you supply values.
<x>	Angle brackets enclose a parameter for which you supply values. This is typically used instead of italic text when there is no space between adjacent parameters.
[x]	Square brackets enclose an optional parameter.
	A vertical line, called a pipe, indicates a choice within a set of parameters.
[x   y]	Square brackets enclosing parameters separated by a pipe indicate an optional choice.
{x   y}	Braces enclosing parameters separated by a pipe indicate a required choice.
[x {y   z}]	Braces and a pipe within square brackets indicate a required choice within an optional element.

### Using the Cisco WebEx Node for MCS CLI

- You can save the output for a command to the download directory by entering the following:

*command\_name > file\_name*

where *command\_name* is the name of the command and *file\_name* is the name of the file in the download directory to which you want to write the output.

- To display just one page of output at a time, enter the following:

*command\_name* | less

where *command\_name* is the name of the command.

- To complete a line or show available commands, either enter ? or press **Tab**.
- To abort a command, press **Ctrl-C**.

## General Commands

**Table: Cisco WebEx Node for MCS CLI Command Reference: General Commands**

Command	Description
exit	Exits the Cisco WebEx Node for MCS CLI.  Syntax: <b>exit</b>
help	Can be used in three ways: <ul style="list-style-type: none"> <li>• If entered alone, displays general information about the Cisco WebEx Node for MCS CLI.</li> <li>• If you enter a command and use the wrong syntax, displays help for that command.</li> <li>• If you enter <b>help</b> <i>command_name</i>, displays help for that command.</li> </ul> Syntax: <b>help</b> [ <i>command_name</i> ]
history	Displays a list of recent commands that were used during the current session.  Syntax: <b>history</b>
interactive	Enables or disables interactive mode.  When interactive mode is enabled, the system prompts you for required input arguments one at a time until you have entered all the required arguments. The system then displays them for confirmation. If you do not confirm the entries, the system repeats this process. By default, interactive mode is disabled.  Syntax: <b>interactive</b>

## Service Commands

The commands in the service group are used to control specific services within the system. Common actions are:

- start-Starts the service.
- stop-Stops the service.

- restart-Restarts the service.
- status-Provides a status of the service.
- enable-Enables the service to start automatically.
- disable-Disables the service from starting automatically.

We recommend that you enable and run all of these services at all times.

**Table: Cisco WebEx Node for MCS CLI Command Reference: Service Commands**

<b>Command</b>	<b>Description</b>
service csa	Provides additional security to the system. Syntax: <b>service csa {start   stop   restart   status   enable   disable }</b>
service firewall	Provides additional security to the system by restricting network traffic to specific ports. Syntax: <b>service firewall {start   stop   restart   status   enable   disable }</b>
service network	Provides network connectivity for the system. Syntax: <b>service network {start   stop   restart   status   enable   disable }</b>
service appserver	Maintains a link to the Application Server. Syntax: <b>service appserver {start   stop   restart   status   enable   disable }</b>
service ntp	Responds to time requests from other systems, allowing their clocks to remain synchronized. Syntax: <b>service ntp {start   stop   restart   status   enable   disable }</b>
service ssh	Enables management via a remote connection. Syntax: <b>service ssh {start   stop   restart   status   enable   disable }</b>
service webex	Controls the meeting services. Syntax: <b>service webex {start   stop   restart   status   enable   disable }</b>

## Set Commands

Use the commands in the set group to configure the system.

**Table: Cisco WebEx Node for MCS CLI Command Reference: Set Commands**

<b>Command</b>	<b>Description</b>
set network domain	If you did not enter this value during installation, or if you need to change it later, use this command to set the domain name for DNS resolution.

	<p>The <i>domain_name</i> input should be in the format <i>company_name.com</i>; for example: cisco.com.</p> <p>Syntax: <b>set network domain</b> <i>domain_name</i></p>
set network hostname	<p>If you did not enter this value during installation, or if you need to change it later, use this command to set the hostname for the Cisco WebEx Node for MCS.</p> <p>The <i>hostname_value</i> must be a Fully Qualified Domain Name (FQDN); for example: mpxSystem.cisco.com.</p> <p>Syntax: <b>set network hostname</b> <i>hostname_value</i></p>
set network ip	<p>If you did not enter this value during installation, or if you need to change it later, use this command to set the IP address of the Cisco WebEx Node for MCS.</p> <p>The <i>IP_address_value</i> should be in the format ddd.ddd.ddd.ddd.</p> <p>Syntax: <b>set network ip</b> <i>IP_address_value</i></p>
set network gateway	<p>If you did not enter this value during installation, or if you need to change it later, use this command to set the IP address of the default gateway address for Cisco Unified MeetingPlace.</p> <p>The <i>IP_address_value</i> should be in the format ddd.ddd.ddd.ddd.</p> <p>Syntax: <b>set network gateway</b> <i>IP_address_value</i></p>
set network nameserver	<p>Sets the primary and secondary DNS addresses for Cisco Unified MeetingPlace.</p> <p>Enter at least one nameserver. You can enter multiple nameservers, each separated by a comma. These values should be in the format ddd.ddd.ddd.ddd.</p> <p>Syntax: <b>set network nameserver</b> <i>nameserver_1_value</i>[, <i>nameserver_2_value</i>]</p>
set network netmask	<p>If you did not enter this value during installation, or if you need to change it later, use this command to set the subnet mask for Cisco Unified MeetingPlace.</p> <p>The <i>subnet_mask_value</i> should be in the format ddd.ddd.ddd.ddd.</p> <p>Syntax: <b>set network netmask</b> <i>subnet_netmask_value</i></p>
set password	<p><b>Note:</b> This is a privileged command, which means that after you enter the command, you have to enter the root password to continue.</p>

Table: Cisco WebEx Node for MCS CLI Command Reference: Set Commands

	<p>Changes the password for either the root or the wbxadmin user. Enter the user name for which you want to change the password. The system will prompt you for the new password.</p> <p>Syntax: <b>set password</b> <i>user_name</i></p>
set webex appserver	<p>Configures the Application Server link information for the Cisco WebEx Node for MCS.</p> <p><b>Note:</b> This command is interactive; the system prompts you for additional information.</p> <p>Syntax: <b>set webex appserver</b></p>
set webex config passname	<p>Sets the Cisco WebEx connection passcode name.</p> <p><b>Note:</b> This information must be provided by a Cisco WebEx representative.</p> <p>Syntax: <b>set webex config passname</b> <i>passcode_name_value</i></p>
set webex config passcode	<p>Sets the Cisco WebEx Node for MCS connection passcode.</p> <p><b>Note:</b> This information must be provided by a Cisco WebEx representative.</p> <p>Syntax: <b>set webex config passcode</b> <i>passcode_value</i></p>
set webex config token	<p>Sets the Cisco WebEx Node for MCS connection token.</p> <p><b>Note:</b> This information must be provided by a Cisco WebEx representative.</p> <p>Syntax: <b>set webex config token</b> <i>connection_token_value</i></p>
set webex config url	<p>Sets the Cisco WebEx Node for MCS connection URL.</p> <p><b>Note:</b> This information must be provided by a Cisco WebEx representative.</p> <p>Syntax: <b>set webex config url</b> <i>URL_value</i></p>
set webex config serial	<p>Sets the serial number for the Cisco WebEx Node for MCS.</p> <p><b>Note:</b> This information must be provided by a Cisco WebEx representative.</p> <p>Syntax: <b>set webex config serial</b> <i>serial_number_value</i></p>
set webex snmp version	<p>Sets the SNMP version for the Cisco WebEx Node for MCS.</p> <p>The <i>version_number</i> can be one of the following values:</p> <ul style="list-style-type: none"> <li>• none-SNMP is disabled</li> <li>• v2-Version 2</li> <li>• v3-Version 3</li> </ul>

Table: Cisco WebEx Node for MCS CLI Command Reference: Set Commands



	Syntax: <b>set webex snmp version</b> <i>version_number</i>
set webex snmp manager	<p>Sets the destination (IP address) for SNMP traps for both Version 2 and Version 3.</p> <p>The <i>IP_address_value</i> should be in the format ddd.ddd.ddd.ddd.</p> <p>Syntax: <b>set webex snmp manager</b> <i>IP_address_value</i></p>
set webex snmp community	<p>Sets the SNMP Version 2 community string.</p> <p>The <i>community_string_name</i> must not contain any spaces.</p> <p>Syntax: <b>set webex snmp community</b> <i>community_string_name</i></p>
set webex snmp auth	<p>Sets the SNMP Version 3 authentication key.</p> <p>Syntax: <b>set webex snmp auth</b> <i>authentication_key</i></p>
set webex snmp priv	<p>Sets the SNMP Version 3 privacy key.</p> <p>Syntax: <b>set webex snmp priv</b> <i>privacy_key</i></p>
set webex snmp user	<p>Sets the name for an SNMP Version 3 user. This user retrieves the SNMP information and does not correspond to any Cisco Unified MeetingPlace end user or administrative user accounts. Give this user a meaningful name.</p> <p>Syntax: <b>set webex snmp user</b> <i>user_name</i></p>
set webex slimtty	<p>The SlimTTY feature allows Cisco WebEx to remotely access the system for troubleshooting purposes. This command sets the SlimTTY level to either enabled or disabled.</p> <p>The <i>status_value</i> can be either "enabled" or "disabled".</p> <p>Syntax: <b>set webex slimtty</b> <i>status_value</i></p>

#### Related Topics

- [Installing the Cisco WebEx Node for MCS module](#)
- [Configuring SNMP on the Cisco Unified MeetingPlace Application Server module](#)

## Show Commands

Enter the commands in the show group to display information about the system.

**Table: Cisco WebEx Node for MCS CLI Command Reference: Show Commands**

<b>Command</b>	<b>Description</b>
show cpu info	Shows CPU information as detected by the system. Syntax: <b>show cpu info</b>
show cpu usage	Shows current CPU usage in a running display, refreshed every second. Syntax: <b>show cpu usage</b>
show csa debug	Shows detailed Cisco Security Agent (CSA) log information. Syntax: <b>show csa debug</b>
show csa events	Shows deny events that have been logged by Cisco Security Agent (CSA). Syntax: <b>show csa events</b>
show csa log	Shows the entire Cisco Security Agent (CSA) log. Syntax: <b>show csa log</b>
show csa status	Shows the current Cisco Security Agent (CSA) status. Syntax: <b>show csa status</b>
show disk activity	Shows current disk activity in a running display, refreshed every five seconds. Syntax: <b>show disk activity</b>
show disk io	Shows current disk I/O metrics in a running display, refreshed every five seconds. Syntax: <b>show disk io</b>
show disk usage	Shows current local disk usage. Syntax: <b>show disk usage</b>
show login history	Displays login history for the administrator login. Syntax: <b>show login history</b>
show memory info	Shows installed memory information as detected by the system. Syntax: <b>show memory info</b>
show memory usage	Shows current memory usage.

	Syntax: <b>show memory usage</b>
show network config	Shows the current network configuration. Syntax: <b>show network config</b>
show network connections	Shows current network connections. Syntax: <b>show network connections</b>
show network firewall	Shows current firewall configuration. Syntax: <b>show network firewall</b>
show network interfaces	Shows current network interfaces. Syntax: <b>show network interfaces</b>
show network route	Shows the current network routing table. Syntax: <b>show network route</b>
show network stats	Displays network statistics. Syntax: <b>show network stats</b>
show ntp	Shows current NTP status information. Syntax: <b>show ntp</b>
show system cache	Shows the current kernel cache usage. Syntax: <b>show system cache</b>
show system date	Displays the current date and time. Syntax: <b>show system date</b>
show system load	Displays the current system load information. Syntax: <b>show system load</b>
show system memory	Shows the current system memory usage. Syntax: <b>show system memory</b>
show system processes	Displays a list of currently running processes. Syntax: <b>show system processes</b>
show system time	Displays the current date and time.

Table: Cisco WebEx Node for MCS CLI Command Reference: Show Commands

	Syntax: <b>show system time</b>
show system uptime	Shows the amount of time that the system has been up since the last reboot. Syntax: <b>show system uptime</b>
show system vmemory	Shows the current virtual memory usage in a running display, refreshed every second. Syntax: <b>show system vmemory</b>
show system hardware	Displays the current hardware. Syntax: <b>show system hardware</b>
show webex appserver	Shows the current Application Server link status and information. Syntax: <b>show webex appserver</b>
show webex status	Shows the current status of the Cisco WebEx Node for MCS. Syntax: <b>show webex status</b>
show webex config	Shows the Cisco WebEx Node for MCS configuration. Syntax: <b>show webex config</b>
show webex services	Shows the current status of the Cisco WebEx Node for MCS services. Syntax: <b>show webex services</b>
show webex snmp	Shows the current SNMP configuration. Syntax: <b>show webex snmp</b>
show webex version	Shows the Cisco WebEx Node for MCS version number. Syntax: <b>show webex version</b>
show webex mibs	Shows available SNMP MIBs. Syntax: <b>show webex mibs</b>
show webex log	Shows the Cisco WebEx Node for MCS services log. Syntax: <b>show webex log</b>
show webex meeting error	Shows error level logs for a particular meeting ID. Syntax: <b>show webex meeting error <i>meeting_ID</i></b>

Table: Cisco WebEx Node for MCS CLI Command Reference: Show Commands

show webex meeting info	Shows information level logs for a particular meeting ID.  Syntax: <b>show webex meeting info</b> <i>meeting_ID</i>
show webex meeting log	Shows the entire log for a particular meeting ID.  Syntax: <b>show webex meeting log</b> <i>meeting_ID</i>
show webex meeting warning	Shows the warning level logs for a particular meeting ID.  Syntax: <b>show webex meeting warning</b> <i>meeting_ID</i>
show webex slimtty	The SlimTTY feature allows Cisco WebEx to remotely access the system for troubleshooting purposes. This command shows the status of the SlimTTY configuration.  Syntax: <b>show webex slimtty</b>

**Related Topics**

- [Configuring SNMP on the Cisco Unified MeetingPlace Application Server](#) module
- [Checking the Status of the Cisco WebEx Node for MCS in the Troubleshooting Cisco Unified MeetingPlace Integration with Cisco WebEx](#) module

**Utility Commands**

Use the commands in the utils group to perform utility functions for various aspects of the system.

**Table: Cisco WebEx Node for MCS CLI Command Reference: Utility Commands**

Command	Description
utils cdrom check	Performs a media check on the disk in the CD/DVD ROM drive. Only valid on install media.  Syntax: <b>utils cdrom check</b>
utils cdrom eject	Ejects the CD/DVD ROM drive.  Syntax: <b>utils cdrom eject</b>
utils csa diagnostics	Captures diagnostic information from the Cisco Security Agent (CSA).  Syntax: <b>utils csa diagnostics</b>
	Performs an MD5 checksum against a file.

utils file checksum md5	Enter the name of the file against which you want to perform the checksum.  Syntax: <b>utils file checksum md5</b> <i>file_name</i>
utils file checksum sha1	Performs an SHA1 checksum against a file. Enter the name of the file against which you want to perform the checksum.  Syntax: <b>utils file checksum sha1</b> <i>file_name</i>
utils file copy	Copies the contents of one file to another. Enter the source location and the destination location.  Syntax: <b>utils file copy</b> <i>source_location destination_location</i>
utils file list	Lists the files available in the download location.  Syntax: <b>utils file list</b>
utils file mkdir	Creates a new directory in the download location.  Syntax: <b>utils file mkdir</b> <i>new_directory_name</i>
utils file open	Opens a file for viewing.  Syntax: <b>utils file open</b> <i>file_name</i>
utils file remove	Removes a file from the download location.  Syntax: <b>utils file remove</b> <i>file_name</i>
utils firewall zero	Sets the counters that are displayed in the "show network firewall" output to zero.  Syntax: <b>utils firewall zero</b>
utils infocap recent	Collects logs from the previous hour of operation.  Syntax: <b>utils infocap recent</b>
utils infocap time	Collects logs from the specified time period. Enter the start and end times in the format [YY]MMDDHHMM. Entering the year is optional. If no year is entered, the system assumes it is the current year.  Syntax: <b>utils infocap time</b> <i>start_time end_time</i>

utils network arping	<p>Performs an arping against a specified IP address.</p> <p>The <i>IP_address_value</i> should be in the format ddd.ddd.ddd.ddd.</p> <p>Syntax: <b>utils network arping</b> <i>IP_address_value</i></p>
utils network nslookup	<p>Performs an nslookup for a specified hostname.</p> <p>Syntax: <b>utils network nslookup</b> <i>hostname</i></p>
utils network ping	<p>Pings a specified hostname.</p> <p>Syntax: <b>utils network ping</b> <i>hostname</i></p>
utils network tcpdump	<p>Performs a TCP dump operation to capture network traffic.</p> <p>Syntax: <b>utils network tcpdump</b></p>
utils network tracepath	<p>Performs a tracepath to a given host.</p> <p>Enter a hostname or IP address. If you enter an IP address, it should be in the format ddd.ddd.ddd.ddd.</p> <p>Syntax: <b>utils network tracepath</b> <i>hostname_or_IP_address_value</i></p>
utils network traceroute	<p>Performs a traceroute to a given host.</p> <p>Enter a hostname or IP address. If you enter an IP address, it should be in the format ddd.ddd.ddd.ddd.</p> <p>Syntax: <b>utils network traceroute</b> <i>hostname_or_IP_address_value</i></p>
utils snmp v2 get	<p>Performs an SNMP Version 2 "get" for a specified object identifier (OID). You must specify an OID, community string, and hostname.</p> <p>Syntax: <b>utils snmp v2 get</b> <i>community_string hostname OID</i></p>
utils snmp v2 walk	<p>Performs an SNMP Version 2 "walk" for a specified object identifier (OID). You must specify an OID, community string, and hostname.</p> <p>Syntax: <b>utils snmp v2 walk</b> <i>community_string hostname OID</i></p>
utils snmp v3 get	<p>Performs an SNMP Version 3 "get" for a specified object identifier (OID). You must specify a user name, authority level, privacy level, hostname, and OID.</p> <p>Syntax: <b>utils snmp v3 get</b> <i>user_name authority_level privacy_key hostname OID</i></p>

utils snmp v3 walk	<p>Performs an SNMP Version 3 "walk" for a specified object identifier (OID). You must specify a user name, authority level, privacy level, hostname, and OID.</p> <p>Syntax: <b>utils snmp v3 walk</b> <i>user_name authority_level privacy_key hostname OID</i></p>
utils ssh	<p>Connects to a remote host via SSH.</p> <p>Enter a user name and hostname.</p> <p>Syntax: <b>utils ssh</b> <i>user_name hostname</i></p>
utils system reboot	<p>Reboots the system.</p> <p>Syntax: <b>utils system reboot</b></p> <p><b>Note:</b> This is a privileged command, which means that after you enter the command, you have to enter the root password to continue.</p>
utils system shutdown	<p>Powers off the system.</p> <p>Syntax: <b>utils system shutdown</b></p> <p><b>Note:</b> This is a privileged command, which means that after you enter the command, you have to enter the root password to continue.</p>
utils system install	<p>Installs new software from the download directory. Enter the name of the software file.</p> <p>Syntax: <b>utils system install</b> <i>file_name</i></p> <p><b>Note:</b> This is a privileged command, which means that after you enter the command, you have to enter the root password to continue.</p>
utils system terminal	<p>Launches a standard Linux terminal session.</p> <p><b>Note:</b> Cisco WebEx Node for MCS CLI commands will not work in a standard Linux terminal session.</p> <p>Syntax: <b>utils system terminal</b></p> <p><b>Note:</b> This is a privileged command, which means that after you enter the command, you have to enter the root password to continue.</p>

#### Related Topics

- [Configuring SNMP on the Cisco Unified MeetingPlace Application Server module](#)