



Cisco Host Upgrade Utility Release 1.4(4) Quick Start Guide

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Cisco Host Upgrade Utility

Overview

The Cisco Host Upgrade Utility is a tool that upgrades the following firmware:

- Cisco Integrated Management Controller (CIMC)
- System BIOS
- LAN on motherboard (LOM)
- LAN on motherboard
 - Intel Ethernet i350 Server Adapter
- LSI
 - LSI SAS2008
 - LSI MegaRAID SAS 9266-8i
- Cisco UCS P81E Virtual Interface Card (VIC)
- Broadcom PCI adapters
 - 5709 Dual and Quad port adapters
 - 57712 Dual port adapter
 - 57712 10GBaseT

The image file for the firmware is embedded in the ISO. The utility displays a menu that allows you to choose which firmware components to upgrade.

Requirements and Support

Requirements

This utility supports firmware upgrades for C-Series servers.

Starting with 1.4 release, separate ISO images are released for each server platform. Be sure to download the correct ISO image for the server.

Server	Container	Version
C220	1.4(4)	CIMC version: 1.4(2) BIOS version: 1.4.1

Server	Container	Version
C240	1.4(4)	CIMC version: 1.4(2) BIOS version: 1.4.1

Support

The Cisco Host Upgrade Utility checks for and then updates the firmware for LOM and LSI controller devices on Cisco UCS C-series servers. For a complete list of supported LOM and LSI controller devices on the supported servers, see the *Release Notes for Cisco UCS C-Series Software, Release 1.4(x)* available at the following location:

http://www.cisco.com/en/US/products/ps10739/prod_release_notes_list.html

Using the Utility

You can use the utility ISO to upgrade components of the server from the host locally with a writable disk (DVD or CD) or remotely by mounting the utility ISO as a virtual device.

Procedure

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- Step 1** Find the ISO file download for your server online and download it to a temporary location on your workstation:
- Navigate to the following URL: <http://www.cisco.com/cisco/software/navigator.html>.
 - Click **Unified Computing and Servers** in the middle column.
 - Click **Cisco UCS C-Series Rack-Mount Standalone Server Software** in the right-hand column.
 - Click the name of your model of server in the right-hand column.
 - Click **Unified Computing System (UCS) Server Firmware**.
 - Click the release number.
 - Click **Download Now** to download the file.
 - Verify the information on the next page, then click **Proceed With Download**.
 - Continue through the subsequent screens to accept the license agreement and browse to a location where you want to save the file.
- Step 2** If you want to prepare the ISO for a local upgrade, complete this step. Otherwise go to [Step 3, on page 3](#).
- Burn the ISO image onto a writable disk (DVD or CD).
 - Connect a VGA monitor and USB keyboard to the Cisco C-Series server.
 - Insert the disk into the DVD drive of the Cisco C-Series server.
 - Go to [Step 4, on page 4](#).
- Step 3** Prepare the ISO for a remote upgrade using KVM.
- Use a browser to connect to the CIMC Manager software on the server that you are upgrading.
 - Enter the CIMC IP address for that server in the address field of the browser, then enter your user name and password.
 - Click the **Launch KVM Console** button in the toolbar to launch the KVM console.
 - Click the VM tab in the KVM Console.
 - Click **Add Image** and use the dialog to select the `ucs-<server-name>-huu-<version_number>.iso` file.

- f) In the **Client View** section, check the check box in the **Mapped** column for the ISO file that you added and then wait for mapping to complete.
- g) After the ISO file appears as a mapped remote device, go to [Step 4, on page 4](#).

Step 4 Boot the server and press F6 when prompted to open the **Boot Menu** screen.

Step 5 On the **Boot Menu** screen, select the prepared ISO:

- For a local upgrade, select the physical CD/DVD device and then press Enter. For example, SATA5:TSSTcorp CDDVDW TS-L633C.
- For a remote upgrade, select **Cisco Virtual CD/DVD** and press Enter.

The server reboots from the selected device.

Step 6 The server displays a screen with the server BIOS and CIMC firmware versions. At the “**Have you read the Cisco EULA (end user license agreement)?**” prompt:

- Press y to accept the EULA and continue the update.
- Press n to read the EULA. The EULA is displayed and you are prompted to press y to continue the update, or n to cancel. If you press n, the server will reboot without updating.
- Press q to exit without updating. This selection reboots the server.

After you accept the EULA, the server displays the **Host Upgrade Menu**.

Step 7 On the **Host Upgrade Menu**, enter one of the following numbers at the `Enter Choice` prompt:

Option	Description
1. Update CIMC Firmware	<p>The utility selects the correct CIMC firmware for your server and then performs the upgrade. Wait until you see confirmation that the upgrade was successful, then either select another option from this menu or restart the machine.</p> <p>Note We recommend you always upgrade the BIOS when you upgrade the CIMC firmware.</p>
2. Update BIOS	<p>The utility selects the correct BIOS firmware for your server and then performs the upgrade. Wait until you see confirmation that the upgrade was successful, then either select another option from this menu or restart the machine.</p> <p>Note We recommend you always upgrade the CIMC firmware when you upgrade the BIOS.</p>
3. Update LOM Firmware	<p>The utility selects the correct LOM firmware for your server and then performs the upgrade. The updated image reverts LOM firmware settings back to factory defaults. Wait until you see confirmation that the upgrade was successful, then either select another option from this menu or restart the machine.</p> <p>Note It is possible that some older systems might fail the PHY link upgrade. If this happens, power cycle the server and try the LOM update again.</p>

Option	Description
4. Update LSI Firmware	<p>The utility checks for any installed and supported LSI storage controller cards, selects the correct LSI firmware, and then performs the upgrade.</p> <p>Wait until you see confirmation that the upgrade was successful, then either select another option from this menu or restart the machine.</p> <p>Note These upgrades take place after the server reboots.</p>
5. Update UCS P81E VIC	<p>The utility checks for any installed Cisco UCS P81E Virtual Interface Cards (VICs), selects the correct firmware, and then performs the upgrade.</p> <p>Wait until you see confirmation that the upgrade was successful, then either select another option from this menu or restart the machine.</p>
6. Update BCM firmware	<p>The utility select the correct firmware versions for Broadcom PCI adapters and then performs the upgrade. With this release, you can upgrade firmware versions for the following Broadcom PCI adapters:</p> <ul style="list-style-type: none"> • 5709 Dual and Quad port adapters • 57712 Dual port adapter • 57712 10GBaseT adapter <p>Wait until you see confirmation that the upgrade was successful, then either select another option from this menu or restart the machine.</p>
7. All the above	<p>The utility selects the correct firmware components for your server and then upgrades the CIMC, LOM, LSI, UCS P81E VIC, BCM PCI adapters and BIOS.</p> <p>Wait until you see confirmation that the upgrade was successful, then either select another option from this menu or restart the machine.</p>
8. Save Logs into USB	<p>You can save debugging logs into the USB drive that is either connected to the server or is mapped through vMedia. If a USB device is not available, the utility prompts you to insert it into the server.</p>
9. Reboot the machine	<p>The utility reboots the server with your existing CIMC settings. Use this selection if you are upgrading a standalone server that you want to continue using in standalone mode with your current settings.</p>

Note Performing Step 1(Update CIMC firmware) or Step 7 (All of the Above) will end the connection with the CIMC. You must log in again to re-establish the CIMC connection and reopen any KVM session that you had open.

Step 8 (Optional) If you updated the LOM firmware, you must fully power cycle the server. You can do this by:

- Unplugging the power cords from all power supplies for a few moments and then reattaching them.

- Using your APC device to shut off power to the server and then restore it.

Step 9 (Optional) With this version of the utility, you have an option to download containers using autorun on Windows operating systems.

Troubleshooting

The following table describes troubleshooting suggestions for issues that you might encounter.

Issue	Suggested Solution
Connection to CIMC is lost after an update and reboot and the KVM session ends.	This is expected behavior after a firmware update. Log back in to the CIMC and reestablish your KVM session.

Additional Information

Related Cisco UCS Documentation

Documentation Roadmaps

For a complete list of all B-Series documentation, see the *Cisco UCS B-Series Servers Documentation Roadmap* available at the following URL: <http://www.cisco.com/go/unifiedcomputing/b-series-doc>.

For a complete list of all C-Series documentation, see the *Cisco UCS C-Series Servers Documentation Roadmap* available at the following URL: <http://www.cisco.com/go/unifiedcomputing/c-series-doc>.

Other Documentation Resources

An ISO file containing all B and C-Series documents is available at the following URL: <http://www.cisco.com/cisco/software/type.html?mdfid=283853163&flowid=25821>. From this page, click **Unified Computing System (UCS) Documentation Roadmap Bundle**.

The ISO file is updated after every major documentation release.

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