



Cisco Host Upgrade Utility Release 1.4(6) Quick Start Guide

[Cisco Host Upgrade Utility](#) 2

[Overview](#) 2

[Requirements and Support](#) 2

[Using HUU](#) 3

[Troubleshooting](#) 7

[Additional Information](#) 7

Revised: March 26, 2015, OL-27642-01

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
- RAID Controllers (for any third-party RAID controllers that are installed)
- Cisco UCS P81E Virtual Interface Card (VIC)
- Broadcom PCI adapters
 - 5709 Dual and Quad port adapters
 - 57711 Dual port adapter
 - 57712 Dual port adapter
 - 57712 10GBaseT adapter
- Intel 82576 Quad port adapter

Starting with 1.4 release, this utility includes the options to:

- Download CIMC and BIOS container zip files.
- Recover a corrupt BIOS in the EFI shell.

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. After the upgrade, you can also choose whether to reboot with existing CIMC settings or with the factory default CIMC settings.

Requirements and Support

Requirements



Important

Separate ISO images are released for each server platform. Be sure to download the correct ISO image for the server.

Server	Container	Minimum CIMC and BIOS Version Required to Use This Utility
C22	1.4.5e	CIMC version: 1.4(5e) BIOS version: 1.4.5d.0
C24	1.4.5e	CIMC version: 1.4(5e) BIOS version: 1.4.5d.0
C220	1.4.4a	CIMC version: 1.4(4a) BIOS version: 1.4.4c.0
C240	1.4.4a	CIMC version: 1.4(4a) BIOS version: 1.4.4c.0

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 HUU

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

Procedure

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- Step 1** Download the HUU ISO file:
- 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 `ucs-server_platform-huu-version_number.iso` 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 4](#).
- Burn the ISO image onto a writable disk (DVD, USB flash drive or CD).
 - Connect a VGA monitor and USB keyboard to the Cisco C-Series server.

- c) Insert the disk into the DVD drive of the Cisco C-Series server.
- d) Go to [Step 4, on page 4](#).

Step 3 Prepare the ISO for a remote upgrade using **KVM Console**.

- a) Use a browser to connect to the software on the server that you are upgrading.
- b) Enter the IP address for that server in the address field of the browser, then enter your username and password.
- c) Click **Launch KVM Console** on the toolbar to launch the **KVM Console**.
- d) Click the **Virtual Media** tab in the **KVM Console**.
- e) Click **Add Image** and click the `ucs-server-name-huu-version_number.iso` file.
- f) In the **Client View** area, 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 In 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, choose **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 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 option restarts 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
0. Inventory	HUU allows you to view the server inventory details.
1. Update CIMC Firmware	<p>HUU selects the correct firmware for your server and then performs the upgrade.</p> <p>Wait until you see confirmation that the upgrade was successful, then either choose other option from this menu or restart the server.</p> <p>Note If you restart the server using option 11 (Reboot the machine), the new firmware version gets activated during the reboot.</p> <p>Note We recommend that you always upgrade the BIOS when you upgrade the firmware.</p>

Option	Description
2. Update BIOS	<p>HUU selects the correct BIOS firmware for your server and then performs the upgrade.</p> <p>Note We recommend that you always upgrade the firmware when you upgrade the BIOS.</p>
3. Update LOM Firmware	<p>HUU selects the correct LOM firmware for your server and then performs the upgrade. The updated image reverts LOM firmware settings back to factory defaults.</p> <p>Wait until you see confirmation that the upgrade was successful, then either choose another option from this menu or restart the server.</p>
4. Update LSI Firmware	<p>HUU 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 choose another option from this menu or restart the server.</p> <p>Note These upgrades take place after the server restarts.</p>
5. Update UCS P81E VIC	<p>HUU checks for any installed Cisco UCS P81E Virtual Interface Card (VICs), selects the correct firmware, and then performs the upgrade.</p> <p>Wait until you see confirmation that the upgrade was successful, then either choose another option from this menu or restart the server.</p>
6. Update UCS VIC 1225	<p>HUU checks for any installed Cisco UCS VIC 1225, selects the correct firmware, and then performs the upgrade.</p> <p>Wait until you see confirmation that the upgrade was successful, then either choose another option from this menu or restart the server.</p>
7. Update BCM <i>firmware</i>	<p>HUU selects 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 choose another option from this menu or restart the server.</p>

Option	Description
8. Update Intel I350 (Quad Port)	<p>HUU selects the Intel I350 Quad port adapter and performs the upgrade.</p> <p>Wait until you see the confirmation that the upgrade was successful, then either choose another option from this menu or restart the server.</p>
9. All of the above	<p>HUU selects the correct firmware components for your server and then upgrades the , LOM, LSI, Cisco UCS P81E Virtual Interface Card firmware, UCS VIC 1225, PCI adapters, and BIOS in that order.</p> <p>Note After you select this option, the connection with ends and the IP will be accessible only after a few minutes. You must log in again to reestablish the connection and reopen any KVM sessions that you had open.</p>
10. 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, HUU prompts you to insert it into the server.</p>
11. Reboot the machine	<p>HUU restarts the server.</p> <p>Note If you upgrade using option 1 (Update CIMC firmware) and then restart the server using this option, the connection with the ends and the IP will be accessible only after a few minutes. You must log in again to reestablish the connection and reopen any KVM sessions that you had open.</p>

If you upgrade BIOS using option 2 (Update BIOS) or option 9 (All of the above) the server displays the following message prompt:

Updating BIOS will power down the server. This can take few minutes, do you want to continue (y/n)

- Press y to continue with the BIOS upgrade.
- Press n to abort the BIOS upgrade.

If you continue with the BIOS upgrade, the server displays the following message prompt:

Do you want to automatically power up the server once bios update is completed (y/n)

- Press y to automatically switch on the server after the BIOS is upgraded.
- Press n to manually switch on the server after the BIOS is upgraded.

Troubleshooting

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

Issue	Suggested Solution
Connection to <code>is</code> 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 <code>and</code> and reestablish your KVM session.
The following error message is observed: <code>PID, Board Part Number, Product Part Number <PID, Board Part Number, Product Part Number> is not supported by this HUU image. HUU will not boot on this machine. Press any key to reboot the server.</code>	This error message is displayed when the HUU ISO is not supported by the server. Use the HUU ISO that is supported by the server.

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>.

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Other Documentation Resources

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