



# Updating the Firmware on Cisco UCS C-Series Servers

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## Upgrading the Firmware on a Cisco UCS C-Series Server Using the 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. This following procedure explains how to upgrade the firmware using the HUU:



### Important

While downgrading from 3.0(3) to a previous version, if the single server Dual SIOC option is enabled, you must disable it before downgrading.

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### Step 1

Download the HUU ISO file:

- Navigate to the following URL: <http://www.cisco.com/cisco/software/navigator.html>.
- In the middle column, click **Servers – Unified Computing**.
- In the right-hand column, click **Cisco UCS C-Series Rack-Mount Standalone Server Software**.
- Choose the name of your model of server in the right column.
- Click **Unified Computing System (UCS) Server Firmware**.
- Choose the release number.
- Click **Download Now** to download the `ucs-server platform-huu-version_number.iso` file.
- Verify the information on the next page, and 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**.

- a) Burn the ISO image onto a writable disk (CD).
- b) Connect a VGA monitor and USB keyboard to the Cisco C-Series server.
- c) Insert the disk into the USB DVD drive of the Cisco C-Series server.
- d) Go to **Step 4**.

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

- a) Use a browser to connect to the Cisco IMC GUI software on the server that you are upgrading.
- b) In the address field of the browser, enter the Cisco IMC IP address for that server, and then enter your username and password.
- c) Click **Launch KVM Console** on the toolbar to launch the **KVM Console**.
 

**Note** Select the server node on which you want to boot the HUU.
- d) In the **KVM Console**, click the **Virtual Media**.
- e) Click **Add Image** and click the `ucs-server-name-huu-version_number.iso` file.
- f) In the **Client View** area, in the **Mapped** column, check the check box 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**.

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

**Step 5** In the **Boot Menu** screen, choose the prepared ISO:

- For a local upgrade, choose the physical or externally connected CD/DVD device and then press Enter.
- For a remote upgrade, choose **Cisco vKVM-Mapped vDVD1.22**, and press Enter.

The server boots from the selected device.

**Step 6** After the HUU boots, Cisco End User License Agreement (EULA) appears, read the EULA and click:

- I Agree to agree with the license agreement and proceed with the update.
- I Disagree to cancel.

After you accept the EULA, when the **Cisco Host Upgrade Utility** window appears with a list of all the components that are available for update.

**Step 7** If you want to update all the listed components, click **Update all**.

**Enabling CMC Secure Boot** confirmation dialog box appears.

**Important** Do not choose secure boot while upgrading to 2.0(13e) from a previous release. Upgrade CMC to 2.0(13e) version first and then upgrade it to enable secure boot.

**Step 8** Read the content on the confirmation box carefully and click **Yes**, if you want to go ahead and update the firmware and enable CMC secure boot.

- Note**
- If you are updating from a version below 2.0 (x) to 2.0(x), when you click **YES** both the active and the backup versions of Cisco IMC will be updated to 2.0(x).
  - During update the KVM connection will be lost, you have to reconnect to view the progress of the updates.

For more information on Cisco IMC secure boot, refer to the **Introduction to Cisco IMC Secure Boot** section in the *Cisco UCS C-Series Servers Integrated Management Controller GUI Configuration Guide, Release 2.0(1)*.

**Step 9** If you want update specific components from the list, choose the components that you want to update.

**Enabling CMC Secure Boot** confirmation dialog box appears.

**Note** Do not choose secure boot while upgrading to 2.0(13e) from a previous release. Upgrade CMC to 2.0(13e) version first and then upgrade it to enable secure boot.

**Step 10** Click **Update**.

- Note**
- We recommend you to update the firmware on all components using the **Update all** option, unless you want to specifically update the firmware of a component.
  - When you update the firmware of one of the following three components: BMC, BIOS, or CMC, we recommend that you also update the firmware of the other two components.
  - If you update the BMC firmware, click **Exit** and then **Ok** to activate the BMC firmware.
  - If you choose to update BMC and any other component with it and if you have not chosen BIOS, then on exit, you will be prompted to update the **Chassis Firmware**, click **Yes** in the confirmation box to update the chassis firmware.

**Important** When you click **Update** or **Update all** to update the chassis components of CMC1 and CMC2 simultaneously, the update on the second triggering server component is skipped, and the subsequent component is updated. This initiates the update and the status of the update is displayed in the **Update Status** column. You can also view a more detailed log of a series of activities and statuses that are involved while updating the firmware in the **Execution Logs** section.

**Step 11** If you want to update the firmware of the hard disk of a server, click **Update HDD Firmware**. A window displays a list of hard disk drives on the server that support new firmware. Hard disk drives that do not support firmware upgrades are not listed.

**Important** Updating the firmware of the hard disk drive could result in data loss. Cisco recommends that you take a complete system backup prior to updating the firmware.

- a) To update the firmware of all the hard disks, click **Update All**.  
With this option, HDDs with the latest firmware installed are not updated.
- b) To update a specific HDD, choose the HDD and click **Update**.

**Step 12** Click **Exit** to exit from the HUU.

**Note** • If you have updated the BMC and not the BIOS, when you click **Exit**, BMC gets activated and you lose connectivity to the BMC and KVM.

**Step 13** Click **Yes** at the confirmation prompt.

**Step 14** Reboot the server to apply firmware changes.

**Step 15** Boot the server back into HUU ISO, and click **Last Update Verify**.

This action compares the previously updated firmware version for each component that was updated using the HUU with the current version of the firmware on the components and provides the status of the update.

**Step 16** If you want to save the log files of the update status for later use, click **Save Logs**.

Log files that contain a detailed status of the update are saved to an external USB device that is connected to the server physically or through the KVM vMedia.

**Note** If an error occurs while updating the firmware, you are prompted to save the error log. Click **Save Logs** to save the log to an externally connected USB. This log can be used for identifying the cause of the error and troubleshooting.

