Managing Firmware Upgrades

This chapter discusses the following topics:

- About Upgrading Firmware on Rack Servers, on page 1
- Adding Images to a Local Cisco UCS Director System, on page 1
- Uploading Images from a Local File System, on page 3
- Adding Images from a Network Server, on page 4
- Upgrading the Firmware Image, on page 5
- Deleting the Firmware Image, on page 6
- Deleting a Profile Created for Firmware Upgrade, on page 7
- Clearing Firmware Upgrade Status Messages, on page 7

About Upgrading Firmware on Rack Servers

In Cisco UCS Director, you can create firmware upgrade profiles and then use these profiles to upgrade the firmware on rack servers. You can create the following types of firmware upgrade profiles:

- Profile for locally stored firmware images.

  For more information on creating this profile, see Adding Images to a Local Cisco UCS Director System, on page 1

- Profile for firmware images stored on the network.

  For more information on creating this profile, see Adding Images from a Network Server, on page 4

Adding Images to a Local Cisco UCS Director System

SUMMARY STEPS

1. Choose **Administration** > **Physical Accounts**.
2. On the **Physical Accounts** page, click **Images - Local**.
3. Click **Add**.
4. In the **Add Firmware Image - Local** screen, complete the required fields, including the following:
5. Click **Submit**.

DETAILED STEPS

Step 1 Choose **Administration** > **Physical Accounts**.

Step 2 On the **Physical Accounts** page, click **Images - Local**.

Step 3 Click **Add**.

Step 4 In the **Add Firmware Image - Local** screen, complete the required fields, including the following:

Field	Description
Profile Name field	Enter a descriptive and unique profile name. The profile name must be unique across both Local and Network image profiles.
Proxy Configuration check box	(Optional) Check this check box to enable proxy configuration and complete the following: • **Host Name** field - Enter a host name for the proxy configuration. • **Port** field - Enter the port for the proxy configuration.
Platform drop-down list	Choose a platform from the drop-down list. This list displays only those platforms that have at least one server being managed.
Available Image drop-down list	Choose the .iso image from the drop-down list.
Download Now check box	Check this check box to download the .iso image immediately after adding a profile.
Graceful Timeout check box	Check this check box to specify a time period within which the host system must shutdown to initiate the firmware upgrade process. **Note** You can configure graceful timeout for systems running Cisco IMC 3.1(3a) or higher. If you do not provide a timeout period, then the system is forcibly shut down after 120 seconds.
Timeout (in mins) field	Specify a time period, in minutes, within which the host system must shutdown to initiate the firmware upgrade process. You can specify a value between 0 and 60.
Force Shutdown Server check box	Check this check box to forcibly shut down the host system if it did not shut down within the time specified in the **Graceful Timeout (in mins)** field. This option is enabled by default.

Field	Description
Accept License Agreement check box	Check this check box to accept the license agreement. Click on the **Terms and Conditions** link to read the End User License Agreement. **Note** You must accept the license agreement to create a firmware profile, irrespective of the time you choose to download the image.

Step 5 Click **Submit**.

Note
- You can click **View Location Details** to view profile configuration details, click **Modify** to modify the firmware image details, and click **Delete Profile** to delete the image profile. You can select multiple profiles concurrently and delete them.
- For downloading the E-Series firmware images, you must associate a contract access to the cisco.com account.

Uploading Images from a Local File System

Perform this procedure to upload iso images from your local file system to the system.

SUMMARY STEPS

1. Choose **Administration** > **Physical Accounts**.
2. On the **Physical Accounts** page, click **Images - Local**.
3. Click **Upload** to add an image.
4. In the **Upload Firmware Image - Local** screen, complete the required fields, including the following:
5. Click **Upload**.
6. Click **OK** in the **File Upload** confirmation screen, once the upload is complete.
7. Click **Close**.

DETAILED STEPS

Step 1 Choose **Administration** > **Physical Accounts**.

Step 2 On the **Physical Accounts** page, click **Images - Local**.

Step 3 Click **Upload** to add an image.

Step 4 In the **Upload Firmware Image - Local** screen, complete the required fields, including the following:

Field	Description
Profile Name field	Enter a descriptive and unique profile name.
Platform drop-down list	Select the C-Series or E-Series platform.

Field	Description
File Name field	Choose **Browse** to search and select a file to upload on your local file system.

Step 5 Click **Upload**.

Step 6 Click **OK** in the **File Upload** confirmation screen, once the upload is complete.

Step 7 Click **Close**.

Note
- You can view profile configuration details, modify the firmware image details, and delete the image profile. You can also select multiple profiles concurrently and delete them.
- The **Delete Profile** option removes the image associated with the profile. If you uploaded a wrong image or if a file is no longer associated with a profile, a purge system task which runs periodically (once a month) will delete the files from the system.

Adding Images from a Network Server

SUMMARY STEPS

1. Choose **Administration** > **Physical Accounts**.
2. On the **Physical Accounts** page, click **Images - Network**.
3. Click **Add**.
4. In the **Add Firmware Image - Network** screen, complete the required fields, including the following:
5. Click **Submit**.

DETAILED STEPS

Step 1 Choose **Administration** > **Physical Accounts**.

Step 2 On the **Physical Accounts** page, click **Images - Network**.

Step 3 Click **Add**.

Step 4 In the **Add Firmware Image - Network** screen, complete the required fields, including the following:

Field	Description
Profile Name field	A descriptive and unique name for the profile. The profile name must be unique across both Local and Network image profiles.
Platform drop-down list	Choose a platform from the drop-down list.
Mount Type drop-down list	Choose either Network File System (NFS) or Common Internet File System (CIFS) server types.
Remote IP field	Enter remote IP address.
Remote Share field	Enter remote share path.

Field	Description
Remote File Name field	Enter a remote filename. **Note** The remote filename is the Unified Computing System (UCS) Server Configuration Utility ISO file.
User Name field	Enter a network path user name.
Password field	Enter a network path password.
Graceful Timeout check box	Check this check box to specify a time period within which the host system must shutdown to initiate the firmware upgrade process.
Timeout (in mins) field	Specify a time period, in minutes, within which the host system must shutdown to initiate the firmware upgrade process.
Force Shutdown Server check box	Check this check box to forcibly shut down the host system if it did not shut down within the time specified in the **Graceful Timeout (in mins)** field. This option is enabled by default.

Step 5 Click **Submit**.

Note You can click **View Location Details** to view profile configuration details, click **Modify** to modify the firmware image details, and click **Delete Profile** to delete the image profile. You can also select multiple profiles concurrently and delete them.

Upgrading the Firmware Image

Perform this procedure when you want to upgrade firmware on a rack server.

SUMMARY STEPS

1. Choose **Administration** > **Physical Accounts**.
2. On the **Physical Accounts** page, click **Firmware Upgrades**.
3. Click **Run Upgrade**.
4. Click **OK** to confirm.
5. In the **Upgrade Firmware** screen, complete the following:
6. Click **Submit**.

DETAILED STEPS

Step 1 Choose **Administration** > **Physical Accounts**.

Step 2 On the **Physical Accounts** page, click **Firmware Upgrades**.

Step 3 Click **Run Upgrade**.

A warning message stating that the firmware upgrade process will result in downtime of the hosts is displayed.

Step 4 Click **OK** to confirm.

Step 5 In the **Upgrade Firmware** screen, complete the following:

Field	Description
Select Profile drop-down list	Choose a profile from the drop-down list.
Server(s) list	Check the check boxes of the servers. The list displays only those servers whose platform matches the one configured in the selected profile.
Schedule later check box	Check this check box and select an existing schedule to run an upgrade. You can also click on + icon to create a new schedule. For more information on creating schedules, see Creating Schedules. You can go to **Policies** > **Manage Schedules**, select a schedule and click **View Scheduled Tasks** to verify the scheduled task and its progress. You can also select a scheduled task and click **Remove Scheduled Tasks** to remove the associated scheduled task.

Step 6 Click **Submit**.

Deleting the Firmware Image

Perform this procedure when you want to delete only the firmware image and not the profile using which the firmware image was downloaded.

SUMMARY STEPS

1. Choose **Administration** > **Physical Accounts**.
2. On the **Physical Accounts** page, click **Images - Local**.
3. Select a profile from the table.
4. Click **Delete Image**.
5. In the **Delete Image(s)** screen, click **Delete**.

DETAILED STEPS

Step 1 Choose **Administration** > **Physical Accounts**.

Step 2 On the **Physical Accounts** page, click **Images - Local**.

Step 3 Select a profile from the table.

Step 4 Click **Delete Image**.

Step 5 In the **Delete Image(s)** screen, click **Delete**.

The firmware image is deleted from the system. You can download this firmware image from later on by using the **Download Image** option.

Deleting a Profile Created for Firmware Upgrade

Perform this procedure when you want to delete a profile created for firmware upgrade.

SUMMARY STEPS

1. Choose **Administration** > **Physical Accounts**.
2. On the **Physical Accounts** page, click **Images - Local** or **Images - Network**.
3. Select a profile from the table.
4. Click **Delete Profile**.
5. In the confirmation dialog box, click **Delete**.

DETAILED STEPS

Step 1 Choose **Administration** > **Physical Accounts**.

Step 2 On the **Physical Accounts** page, click **Images - Local** or **Images - Network**.

Step 3 Select a profile from the table.

Step 4 Click **Delete Profile**.

Step 5 In the confirmation dialog box, click **Delete**.

Clearing Firmware Upgrade Status Messages

Perform this procedure to clear all firmware-related status messages recorded in the Cisco UCS Director system.

Step 1 Choose **Administration** > **Physical Accounts**.

Step 2 On the **Physical Accounts** page, click **Firmware Upgrades**.

Step 3 Click **Delete Upgrade Status**.

Step 4 Click **Submit**.