

Image Service

This chapter describes Image Service management tasks. To access the Image Service feature, click the **Image Service** tab. The Image Service Functional Overview page appears showing:

- Images
- Search Parameters



For External Directory Mode, the Search Parameters tab is called Preconditions.

Working with Images

From the Image Service Functional Overview page, click **Images**. The Images Functional Overview page appears showing:

- View Image
- Create Image
- Edit Image
- Delete Image
- Associate Image with Device(s)

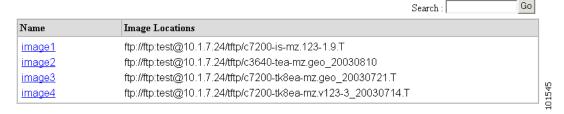
Viewing an Image

Step 1 From the Images Functional Overview page, click **View Image**.

The list of images to view appears (see Figure 18-1).

Figure 18-1 View Image List

View Image

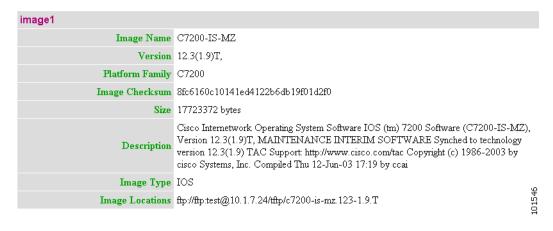


Step 2 From the Name column, select the image you want to view.

The image information appears (see Figure 18-2).

Figure 18-2 View Image Information

View Image



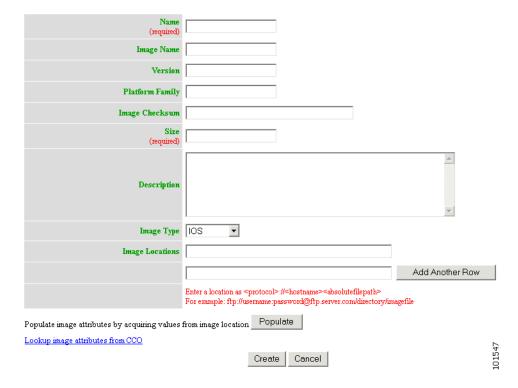
Adding an Image

Step 1 From the Image Service Functional Overview page, click **Create Image**.

The Create Image page appears (see Figure 18-3).

Figure 18-3 Create Image

Create Image



There are two methods for creating an Image Object:

Manual data entry

To enter image information manually, jump to Step 2.



You can get image attributes for manual entry by clicking the link: **Lookup image attributes from Cisco.com**.

Automatic data entry

- a. In the Image Location field, enter a valid URL for the desired image.
- b. Click Populate.
- Step 2 Enter the name of the image used by Image Service to identify this image object in the Name field.

 Table 18-1 shows valid values for these attributes.

Table 18-1 Valid Values for Create Image

Attribute	Description	Valid Values
Name	The name used my Image Services to identify this image object.	a-z A-Z 0-9 # _ (under-score) - (hyphen)
Image Name	The actual Image name.	a-z A-Z 0-9 - (hyphen)
Version	Version of the image.	a-z A-Z 0-9 . (period) ((open braces)) (close braces)
Platform Family	Platform family of the image.	a-z A-Z 0-9 - (hyphen)
Image Checksum	Checksum generated by MD5 hashing algorithm	128-bit hex number
Size	File size	0 – 9
Description	Description of the image.	Any text except Ctrl characters.
Image Type	(i) PDM (ii) QDM (iii) VDM (iv) Other (v) Pix-image	From drop-down list.
Image Location	- Any Valid URL: (i) http (ii) https (iii) ftp (iv) tftp - rcp	Valid URL as per RFC 1738.

Step 3 Enter the actual image name in the **Image Name** field.

Step 4 Enter the version of the image in the **Version** field.

Step 5 Enter the name of the platform family in the Platform Family field.

- Step 6 Enter the image checksum for the image in the Image Checksum field.
- **Step 7** Enter the size of this file in the **Size** field.
- **Step 8** Enter a description of the image in the space provided.
- Step 9 Select an image type from the Image Type drop-down list.
- **Step 10** Enter a valid URL for the image location in the **Image Location** field.

Follow the proper syntax as described.



You can create an image without specifying a location. You can add a location later by using the **Edit Image** function.

Step 11 To add another row for image location, click Add Another Row.

You can locate multiple copies of an image on separate servers. This allows you to do load-sharing when updating a large number of devices. Each device in a large group can be associated with a copy of the image (see"Adding Devices" section on page 3-31) located at one of many server locations.

- **Step 12** To cancel this task, click **Cancel**.
- **Step 13** To create this image, click **Create**.

Editing an Image

Step 1 From the Image Service Functional Overview page, click **Edit Image**.

The Edit Image page appears (see Figure 18-4).

Figure 18-4 Edit Image

Edit Image

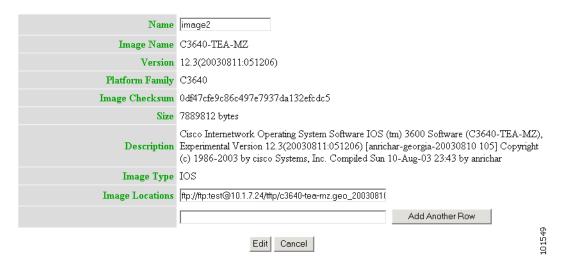


Step 2 Select the image you want to edit by clicking the Image Name.

The Edit Image information page appears (see).

Figure 18-5 Edit Image Information

Edit Image



Step 3 To edit the image name, enter a new value in the Name field.

Table 18-2 Valid Values for Edit Image

Attribute	Description	Valid Values
Name	The name used my Image Services to identify this image object.	a-z
		A-Z
		0-9
		#
		_ (under-score)
		- (hyphen)
Image Location	- Any Valid URL:	Valid URL as per RFC 1738.
	(i) http	
	(ii) https	
	(iii) ftp	
	(iv) tftp	
	- rcp	

- **Step 4** To edit the image location, enter a valid URL in the **Image Location** field.
- **Step 5** To cancel this task, click **Cancel**.
- $\textbf{Step 6} \qquad \text{To make these changes, click } \textbf{Edit}.$

Go

Search:

Deleting an Image

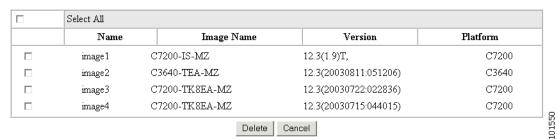
Step 1 From the Image Service Functional Overview page, click **Delete Image**.

The Delete Image page appears (see Figure 18-6).

Figure 18-6 Delete Image

Delete Image

Please select Image(s) from the following list:



Step 2 Check the image(s) you want to delete.

Step 3 To cancel this task, click Cancel.

Step 4 To make these changes, click **Delete**.

Associating Images with Devices



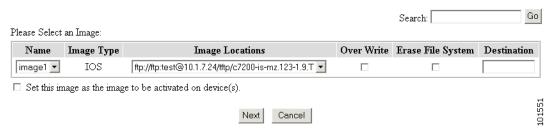
To associate a device with the image, the device must have been registered for image service during device object creation by providing an ImageID. If this has not been done, before trying to associate the device, the device must be edited and an ImageID must be provided.

Step 1 From the Image Service Functional Overview page, click **Associate Image with Device(s)**.

The Associate Image with Device(s) page appears (see Figure 18-7).

Figure 18-7 Associate Image with Device(s)

Associate Image with Device(s)



Step 2 Select the image from the **Name** drop-down list.

The **Image Type** field and **Image Location** drop-down box are populated with corresponding information for the image.

- **Step 3** From the **Image Location** drop-down list, select the desired location.
- **Step 4** In the Destination field, enter a valid URL where the image will be copied.

For example:

disk0:/c7200-mz

- Step 5 To assign this image to be the active image after distribution, check Set this image as the Image to be activated on device.
- Step 6 To cancel this task, click Cancel.
- Step 7 To continue, click Next.

The Group list page appears.

- **Step 8** To associate this image with a group of devices, check the group, then click **Submit**.
- **Step 9** To associate this image with specific devices, click **View**.

The Device list page appears (see Figure 18-8).

Figure 18-8 Device List

Associate Image with Device(s)

Advanced Search>>



- **Step 10** Check the desired device(s).
- **Step 11** To cancel this task, click **Cancel**.
- **Step 12** To associate this image to the selected devices, click **Submit**.

A confirmation page appears.

Search Parameters

Each Search Parameter can be associated with an action to be performed. In this release, Search Parameters are associated with the action to delete certain files from the file system on a device.

For example, if you want to delete all files that contain .bin from a device, you can create a Search Parameter that states: FileName contains .bin and use this Precondition from the Devices > Delete Files.

From the Image Service Functional Overview page, click Search Parameters.



For External Directory Mode, the Search Parameters tab is called Preconditions.

The Search Parameters Functional Overview page appears showing:

- View Search Parameters
- Create Search Parameter
- Edit Search Parameter
- Delete Search Parameters

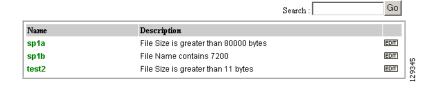
Viewing Search Parameters

Step 1 From the Search Parameters Functional Overview page, click View Search Parameters.

The View Search Parameters page appears (see Figure 18-9).

Figure 18-9 View Search Parameters

View Search Parameters



Step 2 To edit a Precondition, click **Edit** for the desired Precondition, then go to "Editing Search Parameters" section on page 18-181.

Creating Search Parameters

Step 1 From the Search Parameters Functional Overview page, click **Create Search Parameter**.

The Create Search Parameter page appears (see Figure 18-10).

Figure 18-10 Create Search Parameter

Create Search Parameter



- **Step 2** Enter the name of this Search Parameter.
- **Step 3** Use the drop-down arrow in the left Content menu to select:

File Size

File Name

File Timestamp

a. For **File Size**, use the drop-down arrow in the center Content menu to select:

is greater than

is less than

is equal to

- **b.** For **File Name**, the only choice is **contains**.
- **c.** For File Timestamp, the only choice is **before**.
- **Step 4** Enter the remaining portion of the argument in the right Content field.

For example:

File Size is greater than 80,000 bytes

- **Step 5** To cancel this task, click **Cancel**.
- Step 6 Click Create.

Editing Search Parameters

Step 1 From the Search Parameters Functional Overview page, click **Edit Search Parameter**.

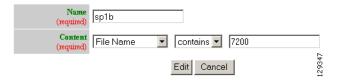
The Edit Search Parameter page appears.

Step 2 Select the Search Parameter you want to edit.

The argument page for the Search Parameter appears (see Figure 18-11).

Figure 18-11 Edit Search Parameter Argument

Edit Search Parameter



- **Step 3** Edit the name or argument as required.
- **Step 4** To cancel this task, click **Cancel**.
- **Step 5** To save your changes, click **Edit**.

Deleting Search Parameters

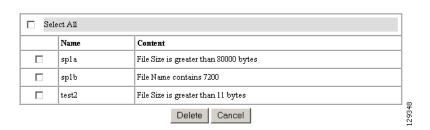
Step 1 From the Search Parameters Functional Overview page, click **Delete Search Parameter**.

Search:

The Delete Search Parameters page appears (see Figure 18-12).

Figure 18-12 Delete Search Parameters

Delete Search Parameters



Please select Search Parameter(s) from the following list:

Step 2 Check to select the Search Parameter(s) to delete, then click **Delete**.

Search Parameters