



Image Service

This chapter describes Image Service management tasks for Internal Directory mode including information about.

To access the Image Service feature, click the **Image Service** tab. The Image Service Functional Overview page appears showing:

- Images
- Search Parameters

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

Search :

Name	Image Locations
image1	ftp://ftp.test@10.1.7.24/tftp/c7200-is-mz.123-1.9.T
image2	ftp://ftp.test@10.1.7.24/tftp/c3640-tea-mz.geo_20030810
image3	ftp://ftp.test@10.1.7.24/tftp/c7200-tk8ea-mz.geo_20030721.T
image4	ftp://ftp.test@10.1.7.24/tftp/c7200-tk8ea-mz.v123-3_20030714.T

10.1545

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

image1	
Image Name	C7200-IS-MZ
Version	12.3(1.9)T,
Platform Family	C7200
Image Checksum	8fc6160c10141ed4122b6db19f01d2f0
Size	17723372 bytes
Description	Cisco Internetwork Operating System Software IOS (tm) 7200 Software (C7200-IS-MZ), Version 12.3(1.9)T, MAINTENANCE INTERIM SOFTWARE Synced to technology version 12.3(1.9) TAC Support: http://www.cisco.com/tac Copyright (c) 1986-2003 by cisco Systems, Inc. Compiled Thu 12-Jun-03 17:19 by ccai
Image Type	IOS
Image Locations	ftp://ftp.test@10.1.7.24/tftp/c7200-is-mz.123-1.9.T

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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

Name (required)	<input type="text"/>
Image Name	<input type="text"/>
Version	<input type="text"/>
Platform Family	<input type="text"/>
Image Checksum	<input type="text"/>
Size (required)	<input type="text"/>
Description	<input type="text"/>
Image Type	IOS <input type="button" value="v"/>
Image Locations	<input type="text"/>
	<input type="text"/> <input type="button" value="Add Another Row"/>

Enter a location as <protocol>://<hostname><absolutefilepath>
For example: ftp://username.password@ftp.server.com/directory/imagefile

Populate image attributes by acquiring values from image location

[Lookup image attributes from CCO](#)

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There are two methods for creating an Image Object:

Manual data entry

To enter image information manually, jump to [Step 2](#).



Timesaver

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 by 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.



Note 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 3-3) 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

Search:

Name	Image Locations
image1	ftp://ftp:test@10.1.7.24/ftp/c7200-is-mz.123-1.9.T
image2	ftp://ftp:test@10.1.7.24/ftp/c3640-tea-mz.geo_20030810
image3	ftp://ftp:test@10.1.7.24/ftp/c7200-tk8ea-mz.geo_20030721.T
image4	ftp://ftp:test@10.1.7.24/ftp/c7200-tk8ea-mz.v123-3_20030714.T

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- 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

Name	<input type="text" value="image2"/>
Image Name	C3640-TEA-MZ
Version	12.3(20030811:051206)
Platform Family	C3640
Image Checksum	0df47cfe9c86c497e7937da132efc5dc5
Size	7889812 bytes
Description	Cisco Internetwork Operating System Software IOS (tm) 3600 Software (C3640-TEA-MZ), Experimental Version 12.3(20030811:051206) [anrichar-georgia-20030810 105] Copyright (c) 1986-2003 by cisco Systems, Inc. Compiled Sun 10-Aug-03 23:43 by anrichar
Image Type	IOS
Image Locations	<input type="text" value="ftp://ftp.test@10.1.7.24/ftp/c3640-tea-mz.geo_20030811"/>
	<input type="text"/> <input type="button" value="Add Another Row"/>
	<input type="button" value="Edit"/> <input type="button" value="Cancel"/>

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

Step 4 To edit the image location, enter a valid URL in the **Image Location** field.

Step 5 To cancel this task, click **Cancel**.

Step 6 To make these changes, click **Edit**.

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

Search:

Please select Image(s) from the following list:

<input type="checkbox"/>	Name	Image Name	Version	Platform
<input type="checkbox"/>	image1	C7200-IS-MZ	12.3(1.9)T,	C7200
<input type="checkbox"/>	image2	C3640-TEA-MZ	12.3(20030811:051206)	C3640
<input type="checkbox"/>	image3	C7200-TK8EA-MZ	12.3(20030722:022836)	C7200
<input type="checkbox"/>	image4	C7200-TK8EA-MZ	12.3(20030715:044015)	C7200

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- 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

- 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)

Search:

Please Select an Image:

Name	Image Type	Image Locations	Over Write	Erase File System	Destination
image1	IOS	ftp://ftp:test@10.1.7.24/ftp/c7200-is-mz.123-1.9.T	<input type="checkbox"/>	<input type="checkbox"/>	

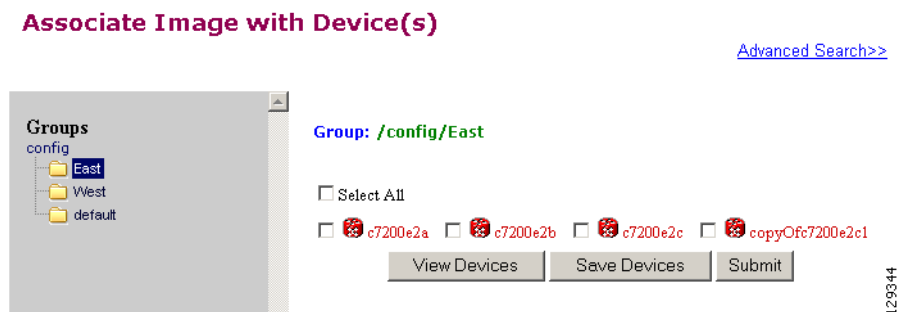
Set this image as the image to be activated on device(s).

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- 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



- 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**.

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

Search:

Name	Description	
sp1a	File Size is greater than 80000 bytes	<input type="button" value="EDIT"/>
sp1b	File Name contains 7200	<input type="button" value="EDIT"/>
test2	File Size is greater than 11 bytes	<input type="button" value="EDIT"/>

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Step 2 To edit a Precondition, click **Edit** for the desired Precondition, then go to [“Editing Search Parameters” section on page 18-11](#).

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

The screenshot shows a form titled "Create Search Parameter". It has two main sections. The first section is labeled "Name (required)" and contains a single text input field. The second section is labeled "Content (required)" and contains three dropdown menus. The first dropdown menu is set to "File Size", the second is set to "is greater than", and the third is empty. Below the form are two buttons: "Create" and "Cancel". To the right of the form, the number "129346" is printed vertically.

- 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 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**.
The Delete Search Parameters page appears (see [Figure 18-12](#)).

Figure 18-12 Delete Search Parameters

Delete Search Parameters

Search :

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

<input type="checkbox"/>	Name	Content
<input type="checkbox"/>	sp1a	File Size is greater than 80000 bytes
<input type="checkbox"/>	sp1b	File Name contains 7200
<input type="checkbox"/>	test2	File Size is greater than 11 bytes

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

