Managing Akamai® NetStorage Accounts

Akamai Confidential
For Customer Use Under NDA Only

April 10, 2009

Akamai Technologies, Inc.

Akamai Customer Care: **1-877-425-2832** or, for routine requests, e-mail **ccare@akamai.com**

The EdgeControl® portal, for customers and resellers: **http://control.akamai.com**

US Headquarters
8 Cambridge Center
Cambridge, MA 02142

Tel: 617.444.3000
Fax: 617.444.3001

US Toll free 877.4AKAMAI (877.425.2624)

For a list of offices around the world, see:
http://www.akamai.com/en/html/about/locations.html

Managing Akamai® NetStorage Accounts

Copyright © 2001–2004, 2006–2009 Akamai Technologies, Inc. All Rights Reserved.

Reproduction in whole or in part in any form or medium without express written permission is prohibited. Akamai, the Akamai wave logo, and the names of Akamai services referenced herein are trademarks of Akamai Technologies, Inc. Other trademarks contained herein are the property of their respective owners and are not used to imply endorsement of Akamai or its services. While every precaution has been taken in the preparation of this document, Akamai Technologies, Inc. assumes no responsibility for errors, omissions, or for damages resulting from the use of the information herein. The information in these documents is believed to be accurate as of the date of this publication but is subject to change without notice. The information in this document is subject to the confidentiality provisions of the Terms & Conditions governing your use of Akamai services.

Contents

About Akamai NetStorage Management 1
Storage Groups and the CVS 1
Domains 1
Upload Accounts 1
Accessing the NetStorage Main Page 2
Viewing Storage Group Details 3
Adding and Editing Upload Accounts 3
Adding New Upload Accounts 3
Editing Existing Upload Accounts 4
Password 5
Directory Access 5
Default Upload Directory 5
Rsync Access 5
Access Privileges 5
Directory Limit 5
Contact Information 5
Account Upload IP ACLs 5
SSH Keys 6
Subdirectory Restrictions 6
Deleting Upload Accounts 6
Editing Upload Directory Attributes 7
Setting Automatic Purge Routines 8

Akamai NetStorage is a managed service that provides persistent, replicated storage for content such as images, streaming media files, software, documents, and other objects. NetStorage makes the content easily accessible to Akamai Edge servers, and thus complements Akamai's content delivery solutions.

This guide discusses using the EdgeControl® portal (**https://control.akamai.com**) to manage your NetStorage management accounts. You use the management interface to add and manage upload accounts, including restricting upload privileges to specific directories, and to set up purge routines.

About Akamai NetStorage Management

Storage Groups and the CVS

When you work with NetStorage accounts, the basic unit you work with is the Storage Group. The storage group is associated with a name, CP Codes, a designated CVS (Committed Volume of Storage), the contractual amount of storage space for the group, the replication locations that can be used, and the upload directories. A single customer can have up to 20 storage groups. After initial setup, Akamai provisions the group with the following properties:

- The replication set (e.g., West coast + East coast, East coast + Europe, etc.).
- The domain for the storage group, further described below.
- Upload accounts, which define the access allowed for uploading and downloading, also described later in this section. (You can also add upload accounts after the group is provisioned.)

Domains

The domain for a storage group is the name of the origin domain you upload to and download from. Akamai creates a NetStorage FTP site based on that name.

For instance, if your domain is example, Akamai will create upload and download directories in the form, **ftp://example.upload.akamai.com and http://example.download.akamai.com**.

The same domain name can be used with more than one storage group, but the replication set must be the same for each.

Upload Accounts

Upload accounts access the storage group, and they carry the following properties:

- An account user name and password.
- The default upload directory.
- Whether rsync transfer is allowed, and if so, a unique password for its use.
- Whether access is Read/Write or Read Only.
- Which directories and subdirectories the account may access.
- Any imposed IP ACL restrictions.
- All SSH keys uploaded for secure content management.

Accessing the NetStorage Main Page

To manage your NetStorage accounts:

1. Log in to the EdgeControl portal at **https://control.akamai.com**.
2. In the left-hand navigation menu, click **NetStorage** and then **Configuration** to display the **All Storage Groups** page.:

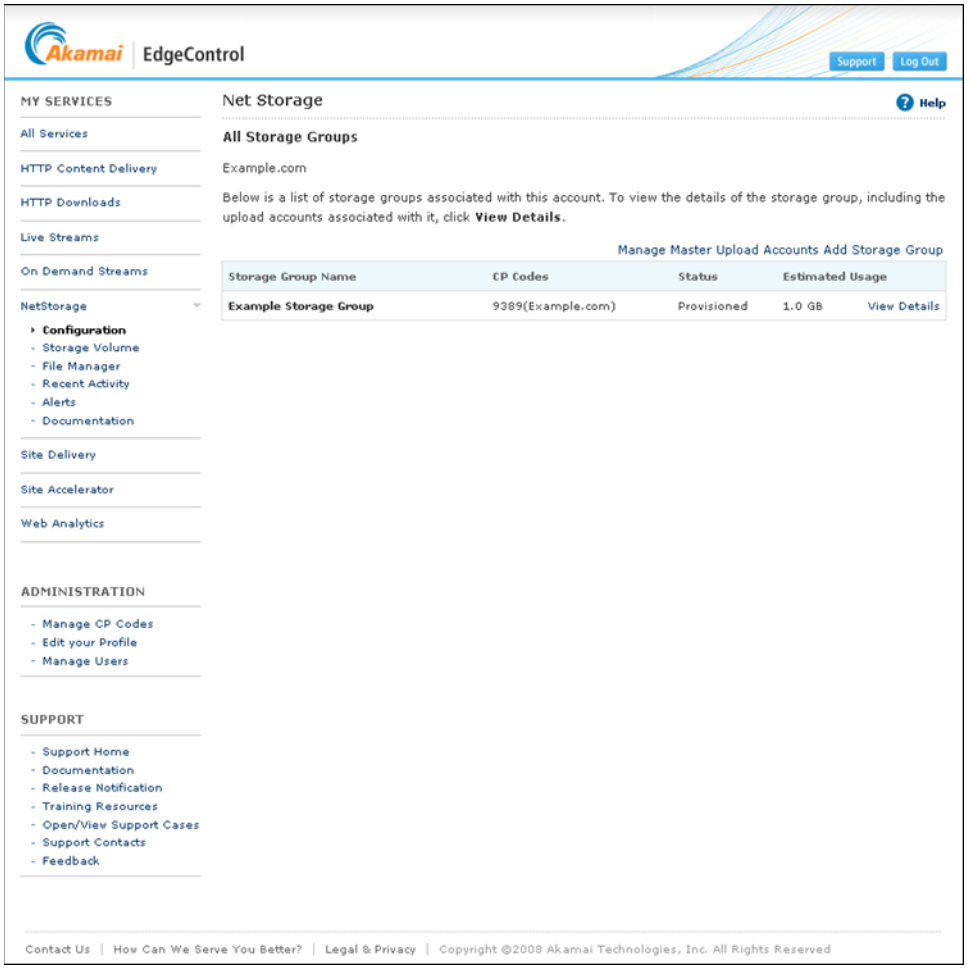

Figure 1. The All Storage Groups Page

The **Status** column denotes whether the group is provisioned. If it is, you can click View Details to view or edit the group properties.

Viewing Storage Group Details

You can view the details of a storage group's settings by clicking View Details for the group on the **All Storage Groups** page (Figure 1).

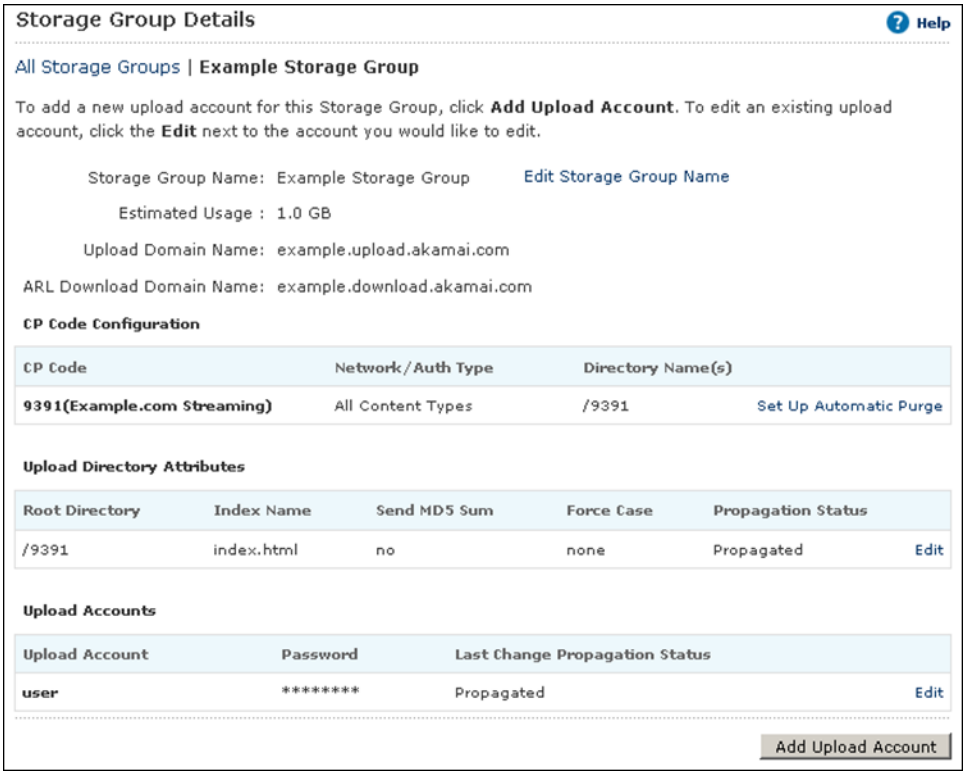

Figure 2-1. Viewing Details of a Storage Group

Adding and Editing Upload Accounts

For a provisioned storage group, you can add new upload accounts, edit settings in existing accounts, and delete accounts.

Adding New Upload Accounts

To add an upload account:

1. Click View Details for the storage group on the **All Storage Groups** page (Figure 1 on page 2).
2. On the **Storage Group Details** page (Figure 2-1), click the **Add Upload Account** button.
3. On the **Add Upload Account** page that appears, enter a user name, password, whether the access is Read Only or Read/Write, whether rsync access is enabled, and which directories the account is allowed to access.

Note: If you enable rsync access, you must create an additional password to use with it. The upload account's password will not work with the rsync access method.

4. Click the **Save** button to complete the action.

   The new upload account is listed on the **Storage Group Details** page.

Editing Existing Upload Accounts

To edit an upload account:

1. Click View Details for the storage group on the **All Storage Groups** page (Figure 1 on page 2).
2. On the **Storage Group Details** page (Figure 2-1), click Edit for the upload account you want to edit. This opens the **Edit Upload Account** page.

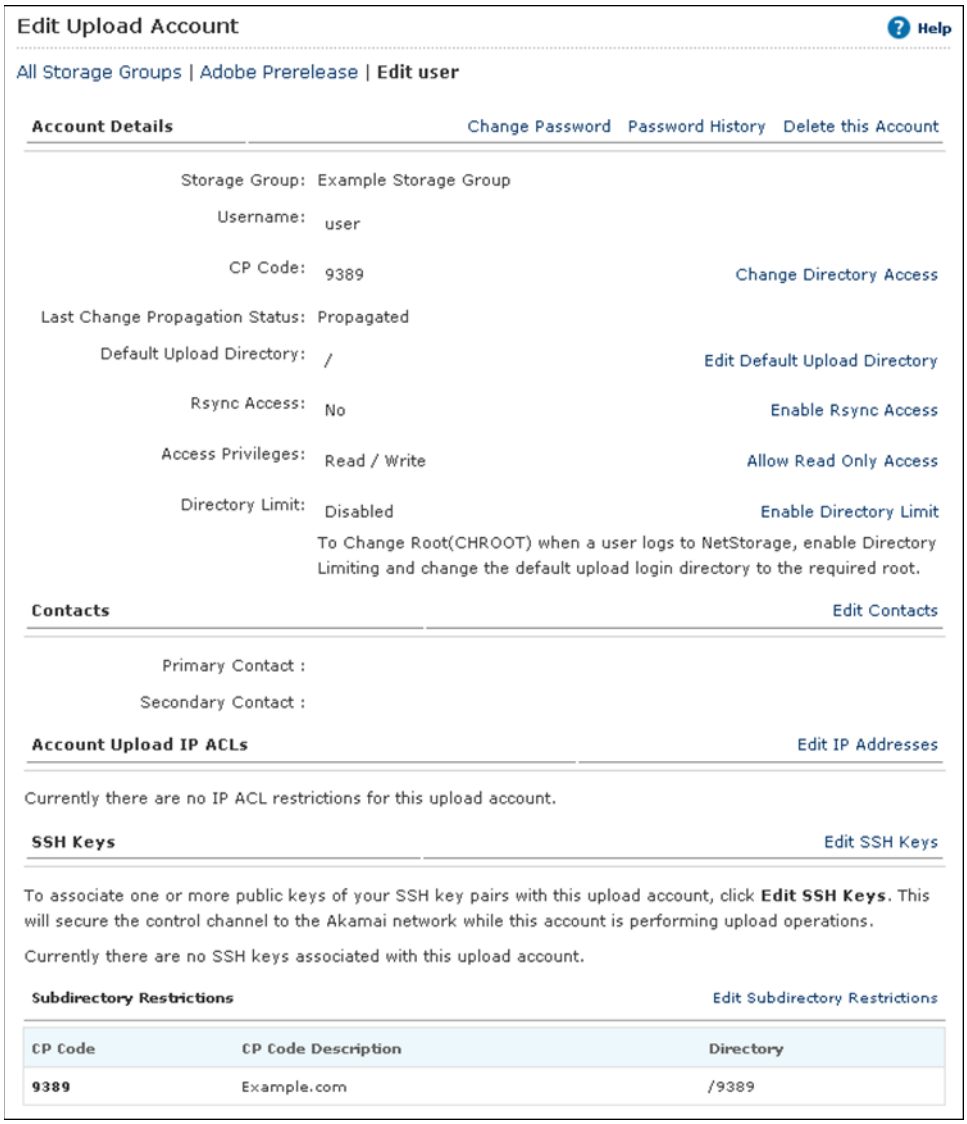

Figure 2-2. Editing an Upload Account

Using the **Edit Upload Account** page shown in Figure 2-2, you can edit various account attributes, as discussed in the following sections.

Password

To edit the account upload password, click Change Password, type a new password, and click the **Save** button.

You can also view the password history—notes about when the password was last modified and by whom—by clicking Password History.

Directory Access

To enable or disable access to specific directories, click Change Directory Access.

On the **Edit Directory Access** page that appears, enable or disable directory access for the upload account by checking or clearing, respectively, the applicable check box or boxes, and clicking the **Save** button.

Default Upload Directory

By default, the FTP client is logged into the root directory. You can change this default by clicking Edit Default Upload Directory.

On the **Edit Default Upload Directory** page that appears, enter a directory name, with a leading slash, and click the **Save** button.

Rsync Access

To enable or disable rsync access, click Enable/Disable Rsync Access.

On the **Enabling Rsync** page that appears, enter a password for use with rsync, and click the **Save** button.

Note: If you enable rsync access, you must create an additional password to use with it. The upload account's password will not work with the rsync access method.

Access Privileges

To change from Read Only access to Read/Write or vice versa, click Allow Read Only Access or Allow Read/Write Access and confirm your decision.

Directory Limit

To Enable or disable Directory Limit, click Enable/Disable Directory Limit, and confirm the change.

When enabled, the default upload directory is treated as if it is the root directory from the upload account user's perspective, thus hiding the full path (including CP code) from anonymous users.

Contact Information

To add or change primary and secondary contacts, click Edit Contacts.

On the **Contacts** page that appears, select the primary and secondary contacts and click the **Save** button.

Account Upload IP ACLs

By default, there are no restrictions on the client IPs from which the upload account can log in. You can add or edit restrictions by clicking Edit IP Addresses.

On the **Edit IP Addresses** page that appears, enter the IP address(es) and click the **Save** button. To enter more than one address, separate them with semicolons (for example, "**127.0.0.1;127.0.0.2**").

SSH Keys

You can optionally associate one or more public SSH keys with the upload account. To do so, click Edit SSH Keys. Copy and paste the public SSH Key into the text box and click the **Save** button, or click the **Save and Add Another** button to repeat the operation for another key.

Note: Be aware, if you upload an SSH for an upload account, you will not be able to access it through nonsecure methods (e.g., FTP).

Detailed information regarding formatting requirements for your SSH keys can be found in Chapter 2 of the *NetStorage User Guide*.

Subdirectory Restrictions

You can constrain the upload account's access to specified subdirectories. To add or remove subdirectory restrictions, click Edit Subdirectory Restrictions. Note the instructions on the **Edit Subdirectory Restrictions** page, then:

- To add access to a subdirectory, enter the subdirectory in the **Add Subdirectory** text box and click the **Save** button, or click the **Save and Add Another** button to repeat the operation for another subdirectory.
- To remove access to a subdirectory, click Delete for the subdirectory.

Deleting Upload Accounts

Note: Deleted upload account names cannot be reused. If you delete an upload account by mistake, you will be unable to re-create it using the same name. Also, some NetStorage features, when implemented, prohibit deletion of affected upload accounts. Your Akamai representative can delete upload accounts for you if you are unable.

To delete an upload account:

1. Click View Details for the storage group on the **All Storage Groups** page (Figure 1 on page 2).
2. On the **Storage Group Details** page (Figure 2-1 on page 3), click Edit for the account you want to delete.
3. On the **Edit Upload Account** page shown in Figure 2-2 on page 4, click Delete this Account, and confirm your decision.

Editing Upload Directory Attributes

For each upload directory associated with a storage group, you can modify the index file name, choose whether to force a particular case, and choose whether to send an MD5 sum of the content in a response header.

To edit upload directory attributes:

1. When viewing the details of a storage group (Figure 2-1), in the **Upload Directory Attributes** section click Edit for the upload directory you want to edit, and the **Upload Directory Attributes** page appears:

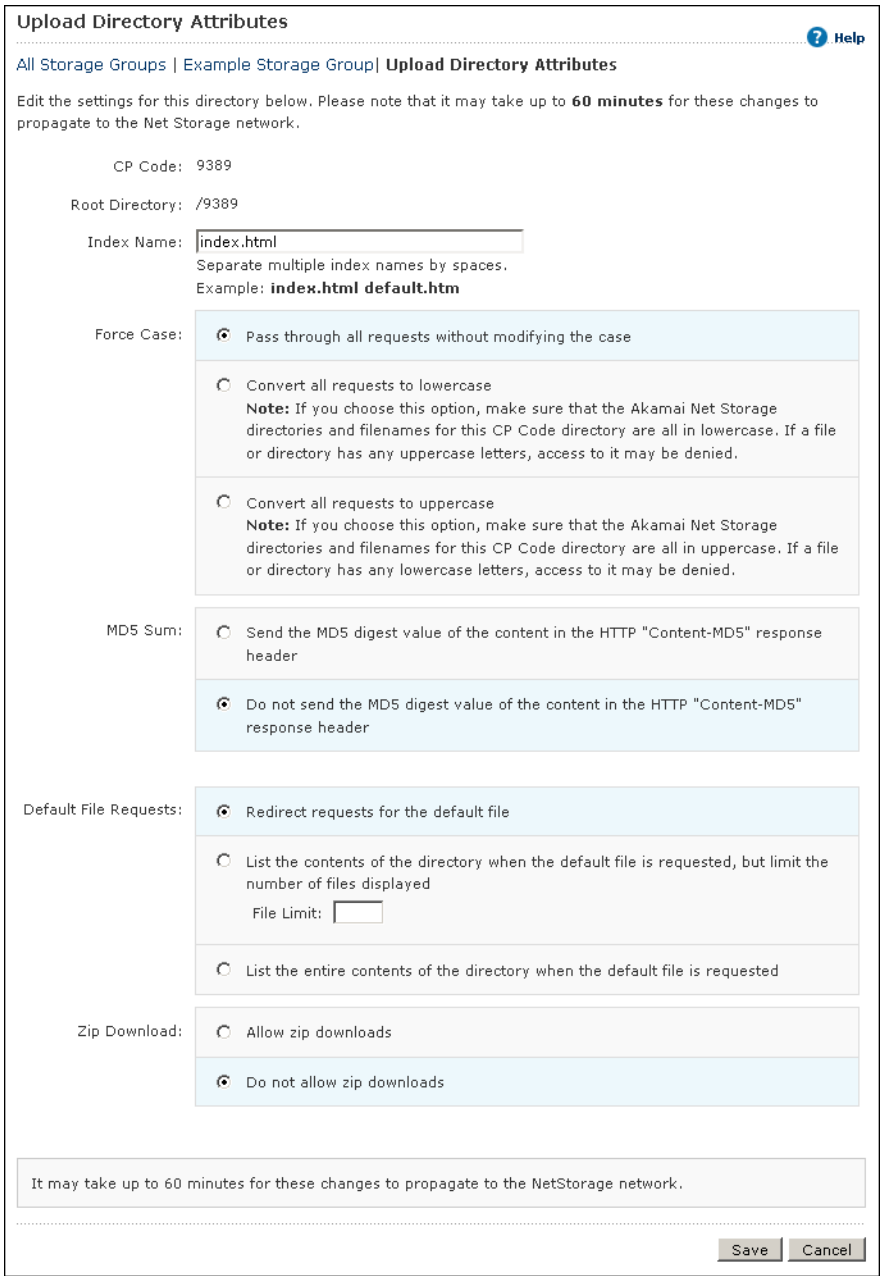

Figure 2-3. Editing Upload Directory Attributes

2. Modify the attributes as desired:
    - **Index Name.** The default index file name. This field works in conjunction with the **Default File Requests** field described below; selecting **Redirect requests for the default file** there displays the **Index Name** file in end users' browsers when they access the directory.
    - **Force Case.** For uploads to the storage area; dictates whether the case of your content names should be forced to upper or lower, or not forced at all.

Note: Before modifying the case settings, note the warning on the page with regard to making sure your existing files conform with the setting. If the option is selected but existing files do not conform, a denial of service results for end users.

    - **MD5 Sum.** Determines whether the content's MD5 digest value is sent in the HTTP "Content-MD5" response header.
    - **Default File Requests.** Controls what end users' browsers display when they access the directory:
        - **Redirect requests for the default file.** Display the file entered in the **Index Name** text box described above.
        - **List the content of the directory…but limit the number of files displayed.** Display a list of the directory's contents, limiting the on-screen number to that entered in the accompanying **File Limit** text box.
        - **List the entire contents of the directory….** Display a complete list of the directory's contents.
    - **Zip Download.** If you select **Allow zip downloads**, you enable the Serve from Zip feature detailed in the *NetStorage User Guide*.
3. Click the **Save** button.

Setting Automatic Purge Routines

You can set up automatic purge routines for directories and subdirectories in a storage group. The purge is set for files that are older than a specified number of days when the directory reaches a specified number of bytes in size.

If none of the content is older than the specified number of days, no content will be purged even if the directory size exceeds the specified byte level. Also, an initiated purge stops once the directory size is reduced below the allowed size.

To set up automatic purges:

1. Click View Details for the storage group on the **All Storage Groups** page (Figure 1 on page 2).

2. On the **Storage Group Details** page (Figure 2-1 on page 3), click Set Up Automatic Purge to open the **Set Up Automatic Purge** page:

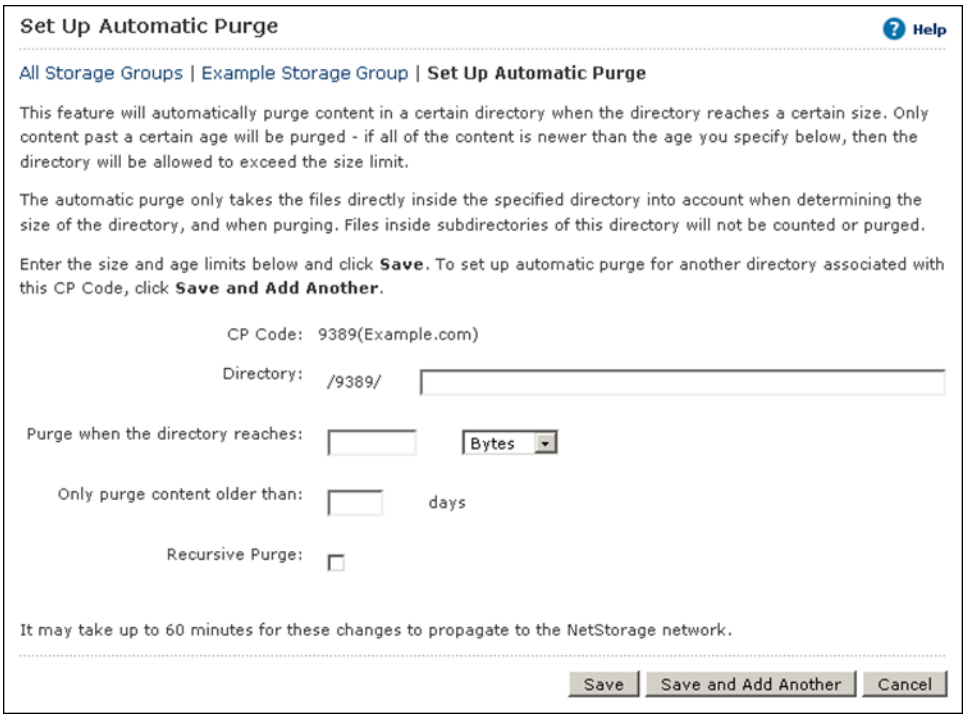

Figure 2-4. Setting Up Automatic Purge Routines

3. Enter the directory, the size (in bytes) the directory can reach before the purge is initiated, the age in days for the content that will be purged, and whether to purge recursively.
4. Click the **Save** button, or click the **Save and Add Another** button to add another purge routine.