

Making the Most of Your StorCenter: Torrent Downloads

BitTorrent is a common peer-to-peer (P2P) file sharing protocol used on the Internet. This white paper describes the essential steps in successfully downloading torrents from your StorCenter ix-Series server.

Introduction	2
Downloading Torrents	2
Configuring Port Forwarding	2
Managing Torrent Downloads	3
Adding a Torrent	3
Deleting a Torrent	4



Introduction

BitTorrent is a common peer-to-peer (P2P) file sharing protocol used on the Internet. Torrents require special software clients such as the software built-in to the StorCenter ix-Series. This file sharing method requires .torrent files that are downloaded from a torrent tracker—a special server that tracks which peers are sharing a file. The torrent tracker does not actually host a copy of the files that are being shared. Each peer shares portions of the torrent once it has been downloaded. File transfer rates increase as more peers participate in the download. This protocol uses TCP ports 6881-6999; however, many Internet Service Providers (ISPs) throttle traffic on these ports. Some torrent trackers require that you use a port in the 49152-65535 (unassigned) range.

Downloading Torrents

Torrent downloads allow you to download files using a peer-to-peer file sharing protocol. With Torrent Download, you can download files using the torrent protocol to your device and then those files can be downloaded by other torrent users. You can access the Torrent Download Settings page by navigating to the Settings tab and clicking **Torrent Download**.

You can add torrent jobs by selecting the **Manage torrent downloads** on the **Home** page.

1. Access the Torrent Download Settings page by navigating to the Settings tab and clicking **Torrent Download**. To enable torrent downloads, check **Enable torrent downloads**.

2. Type a value for **Max Download Speed**.

This is the maximum download speed for files you are downloading to your device. This speed affects how fast you want files added to your device.

3. Type a value for **Max Upload Speed**.

This is the maximum upload speed for files being downloaded by other users from your device. The upload speed can affect device performance, as it sets the speed at which other users upload a file unprompted from your device. It is recommended that you choose a value that does not strain the performance of your device and impact other work on it.

4. Set a **Port** value used by torrent peers to upload files from your Iomega StorCenter device.

The port value should be a number in the 6881-6999 or 49152-65535 range and your router must be configured to allow port forwarding on the same port. Refer to Port Forwarding for more information on how to do this.

5. Click **Apply** to save your changes.



Configuring Port Forwarding

The Iomega StorCenter will attempt to automatically configure your router to port forward for remote access, once that feature is enabled. If the StorCenter is unsuccessful or if you need to use other features such as torrent download or FTP, you will need to manually configure your router.

NOTE: Before port forwarding, you will want to change your StorCenter to a static IP address.

The port forwarding steps will vary depending on your router. You will need to consult the user's manual that came with your router for more information. In most cases you should look for a section on port forwarding OR application access.

Although, Iomega cannot provide you with exact steps for your router, we can provide some information on settings fields commonly found on Port Forwarding screens. (Not all fields are found on all devices. Fields may appear in a different order on your router.)

Linksys Users: In addition to Port forwarding you will need to deselect Block Anonymous Internet Requests on the Firewall settings page.

Port Forwarding Settings

Description	Protocol	External Port*	Internal Port	IP Address
Torrent	TCP	6881-6999 or 49152-65535‡	6881-6999 or 49152-65535‡	StorCenter IP†

* Generally the External and Internal port settings will match; however, since a port can only be forwarded to one device you may need to change the external port to avoid a forwarding conflict. For example, if your router has external (web) configuration enabled it may already be using port 443. You may need to set the external port to 8080, etc. Ports 49152-65535 are not registered to a specific application and should not cause conflicts.

† You can find your StorCenter device's IP address on the **Settings** → **Network Services** → **Network Settings** screen.

‡ These must match the port range you set in the **Torrent Downloads** screen under the Settings tab. Some Internet Service Providers block ports 6881-6999.

Managing Torrent Downloads

Adding a Torrent

1. Access the current list of torrent jobs by selecting the **Manage torrent downloads** on the **Home** page.

NOTE: You can enable or disable the torrent download feature by navigating to the Settings tab and clicking **Torrent Download**.

2. On the Manage Torrent Downloads page, click **Add**.
3. On the Add Torrent Job page, choose a Download Mode:
 - **Torrent File**—Download a torrent file from your local computer to your Iomega StorCenter device. Click **Browse** to select a file on your computer.
 - **URL**—Download a torrent file from the internet to your Iomega StorCenter device. Enter the URL for the file. If additional security is required to download from the server, check **Additional Credentials Required** and enter your login and password.



4. Choose a destination folder on your Iomega StorCenter device to store your downloaded files. By default, the destination folder for your downloads is set as the **media/download** subfolder of the public folder. To change the destination folder for this torrent job, click folders to view a list of top-level folders. You can set the destination folder to any folder on the device. Click the rightmost folder to view any subfolders, or click a folder or subfolder to set it as the destination folder.
5. Click **Apply** to add your torrent job.

Deleting a Torrent

On the Torrent Download page, select a checkbox next to a completed or partially completed torrent job and click **Delete**.

Deleting a completed torrent job

1. On the Delete Torrent Job page, Select **Check this box to delete the selected torrent jobs** and then choose one of the following:
 - **Delete torrent jobs only**—Select to delete the torrent job but keep the file. If the job is deleted, the file cannot be uploaded for other users to download.
 - **Delete torrent jobs and downloaded files**— Select to remove the torrent job and the file.
2. Click **Apply** to save your setting:

Deleting a partially completed torrent job

Deleting a partially completed torrent job removes both the job and the file. You do not have the option to save one or the other.

On the Delete Torrent Job page, Select **Check this box to delete the selected torrent job** and then click **Apply** to save your setting.



Copyright © 2009 Iomega Corporation. All rights reserved. Iomega, StorCenter, and the stylized “i” logo are registered trademarks of Iomega Corporation in the United States and/or other countries. EMC and Retrospect are registered trademarks of EMC Corporation in the United States and/or other countries. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Apple, Macintosh, and Mac are either registered trademarks or trademarks of Apple Inc. in the United States and/or other countries. Certain other product names, brand names, and company names may be trademarks or designations of their respective owners. 041309c