CASPER SECURE™

SERVER EDITION 3.0

SMARTSTART GUIDE

Future Systems
SOLUTIONS

Copyright and Trademark Information

Information in this document is subject to change without notice. Federal law prohibits unauthorized use, duplication, and distribution of any part of this document in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of Future Systems Solutions.

Future Systems Solutions may have patents, trademarks, copyrights, or other intellectual property rights covering subject matter in this document.

Casper, the Casper logo, Casper Secure, Drive2Drive, SmartClone, SmartWrite, AccuClone, SmartAlert, SmartSense, SmartStart, and 1-Click Cloning are either registered trademarks or trademarks of Future Systems Solutions, Inc. Microsoft and Windows are registered trademarks and Windows 7 is either a registered trademark or trademark of Microsoft Corporation. Other brand and product names may be trademarks or registered trademarks of their respective holders.

Table of Contents

Introduction

Whether your intention is to replace a computer's existing Windows system disk device with a new disk or RAID array for increased speed or storage capacity, or maintain an instantly bootable backup replacement for the computer, Casper Secure SmartStart is designed to make the process extraordinarily easy.

NOTE: This guide provides an overview of Casper Secure SmartStart. For additional assistance, please refer to the Casper Secure User Guide or detailed help file included within the program.

System Requirements

- Windows Server 2008 and 2008 R2, Windows Server 2003, Windows Home Server, and Windows 2000 and 2000 Advanced Server

    NOTE: Casper Secure Server Edition is not designed for use with Windows Server for Itanium-Based Systems or Windows NT. Background copying not supported on Windows 2000 and 2000 Advanced Server.

- 100MB available disk space

- 128MB RAM (512MB or more recommended)

- Backup device (additional internal or external hard disk drive)

Getting Started

Casper SmartSense™ technology will begin the process of upgrading or creating and maintaining a backup replacement of a Windows system disk device automatically when you attach a new or existing backup hard disk to the computer. When the backup disk device is already installed or attached, you can manually launch Casper Secure SmartStart.

Manually Starting Casper Secure SmartStart

1. Click the **Start** button.

2. Click **All Programs**.

3. Point to the **Casper Secure 3.0 Server Edition** menu.

4. Click **Casper Secure SmartStart**.

> **NOTE:** By default, Casper SmartSense will ignore new disks having a capacity less than 32GB. Please see *Configuring Casper SmartSense* in the Casper Secure Help file for additional information.

Creating and Maintaining a Bootable System Backup

Using Casper Secure to create and maintain a bootable backup replacement disk for a Windows server requires a hard disk or secondary RAID array large enough to accommodate all of the data on the current system disk device.

The following examples illustrate several ways to create and maintain a bootable system backup. The first example, **Creating a Backup**, demonstrates how to initialize or reinitialize a disk device for use as a complete backup replacement for the Windows system disk device. The second example, **Updating a Backup**, shows how to manually update an existing backup of the Windows system disk device. The third and fourth examples, **Automating an Internal/External Backup**, illustrate how to fully automate a backup maintained on either an internal or external disk.

> **NOTE:** For a hard disk attached as an external USB device, booting from the backup hard disk may require the selection of additional BIOS options to completely enable booting. By default, some BIOS implementations disable USB boot support, or have it configured for floppy or ZIP drive emulation rather than hard disk drive (HDD) emulation. *If the computer's BIOS does not support booting from external USB hard disk type devices, the backup hard disk must be removed from its external enclosure and installed as a replacement for the internal hard disk in order to boot from it.* Alternatively, a restore may be performed by using the optional Casper Secure Startup Disk to copy the external backup hard disk to the computer's internal disk device.
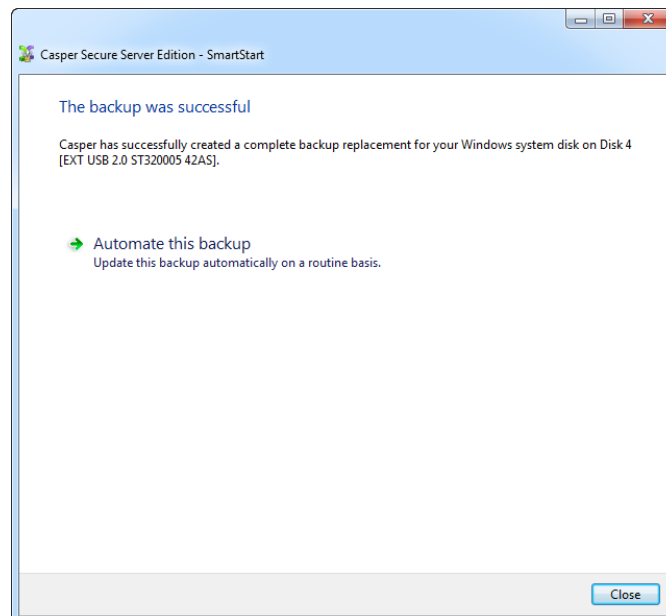
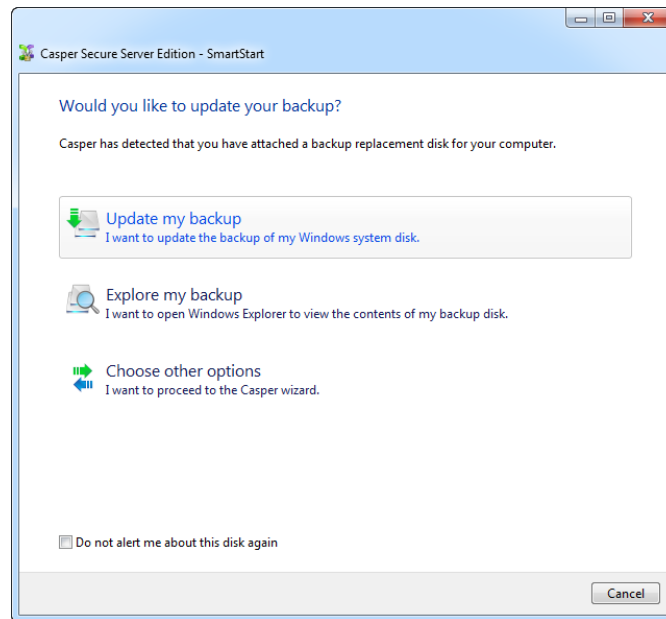# Example 1: Creating a Backup
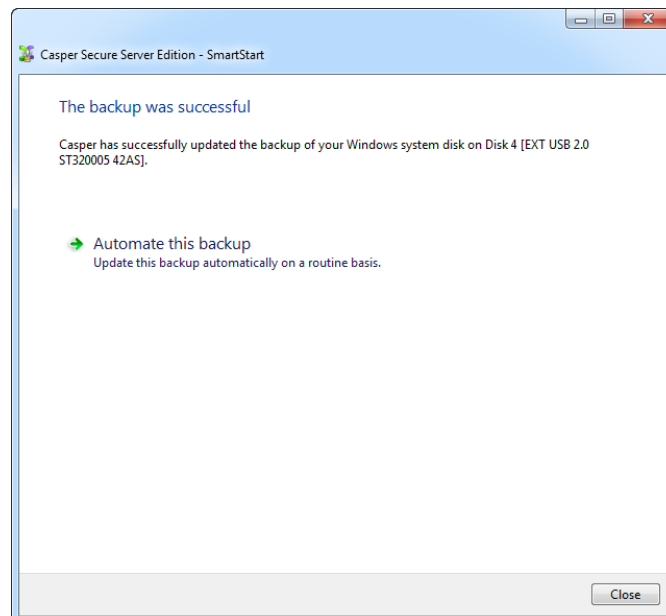
When you attach a new hard disk to the computer using an external USB, Firewire, or eSATA interface, Casper Secure SmartStart will prompt you to back up the system automatically. If the new disk device is installed internal to the computer, or if Casper SmartSense is unable to detect the new disk, you must manually launch Casper Secure SmartStart to begin the process.

When creating a system backup, Casper Secure SmartStart will automatically make all of the necessary selections within Casper Secure to immediately perform the back up of the Windows system disk device.
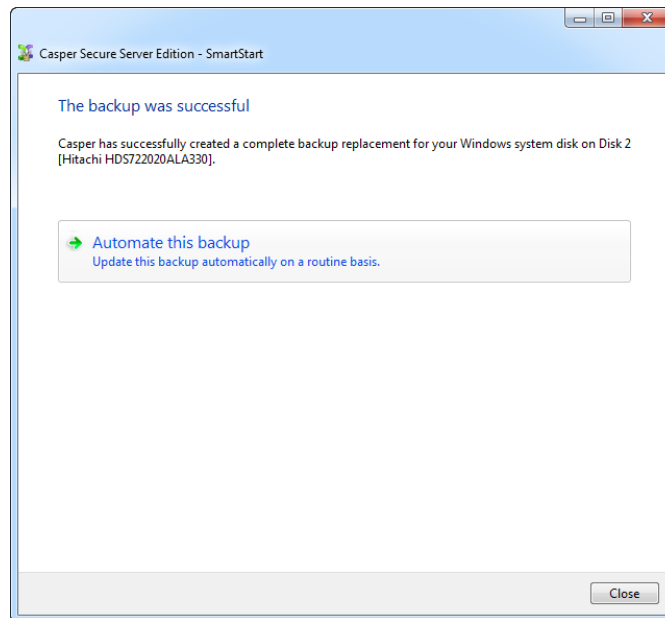
1. Select **Back up my system now**.

2. When Casper Secure has completed the backup, click **Close**.

Example 2: Updating a Backup

When you attach an existing backup hard disk to the computer using an external USB, Firewire, or eSATA interface, Casper Secure SmartStart will prompt you to update the backup automatically. If the backup disk device is installed internally, or if Casper SmartSense is unable to detect the backup disk, you must manually launch Casper Secure SmartStart to begin the process.

When updating a system backup, Casper Secure SmartStart will automatically make all of the necessary selections within Casper Secure to immediately perform the back up of the Windows system disk device.

1. Select **Update my backup**.

2. When Casper Secure has completed the backup, click **Close**.
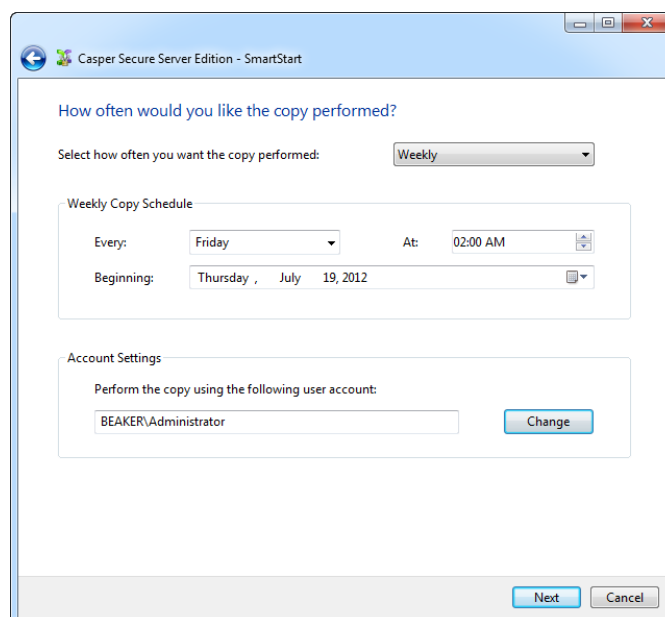
Example 3: Automating an Internal Backup

You can fully automate the backup process by scheduling Casper Secure to run on a routine basis when the backup device is installed internal to the computer or installed in a removable (mobile) drive bay. The process described below is the same whether you have just completed an initial backup as demonstrated in Example 1 or updated an existing backup as demonstrated in Example 2.
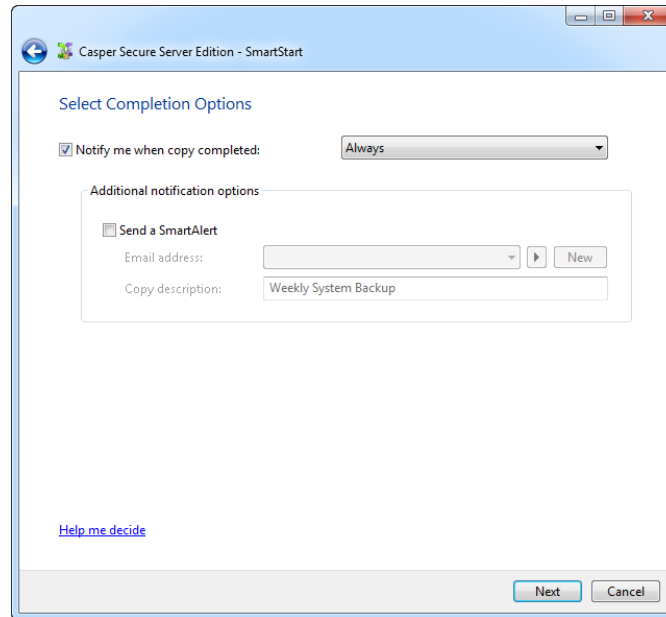
1. After completing a backup as described in one of the preceding examples, click **Automate this backup**.

2. Select the schedule you would like Casper Secure to follow to maintain the backup, and click **Next**. For help with the schedule, press **F1**.
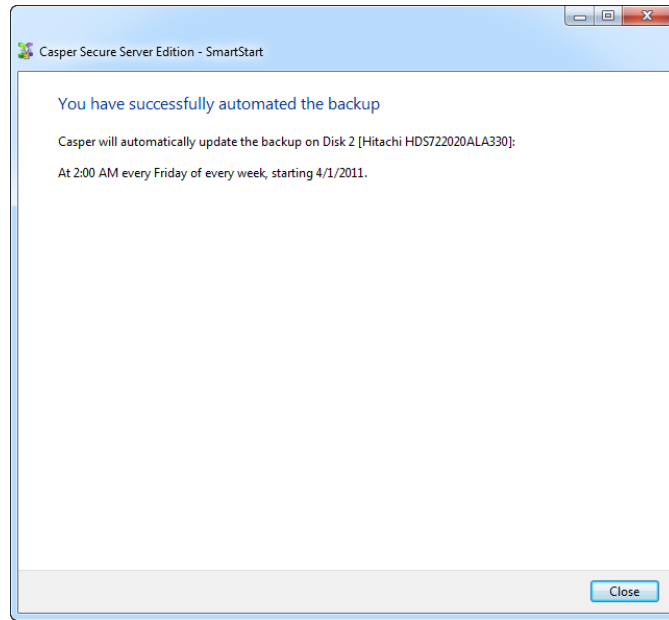
3. Select the desired completion options, and click **Next**.

4. Enter a name for the schedule, or retain the name suggested by Casper Secure, and then click **Create schedule** to add the copy schedule to the Windows Scheduled Tasks.
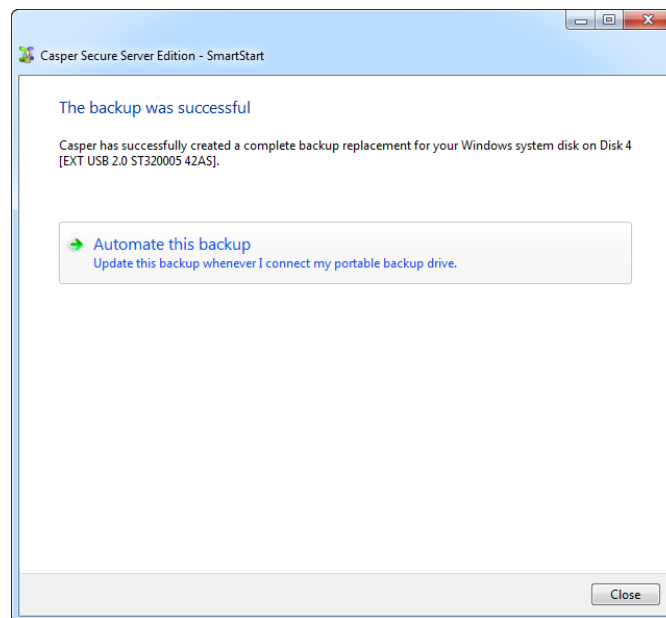
5. Click **Close**.

Example 4: Automating an External Backup

When using a portable drive such as an external USB, Firewire, or eSATA drive for your backup, you can configure a Casper SmartSense Backup to perform the backup automatically whenever you attach your backup drive.
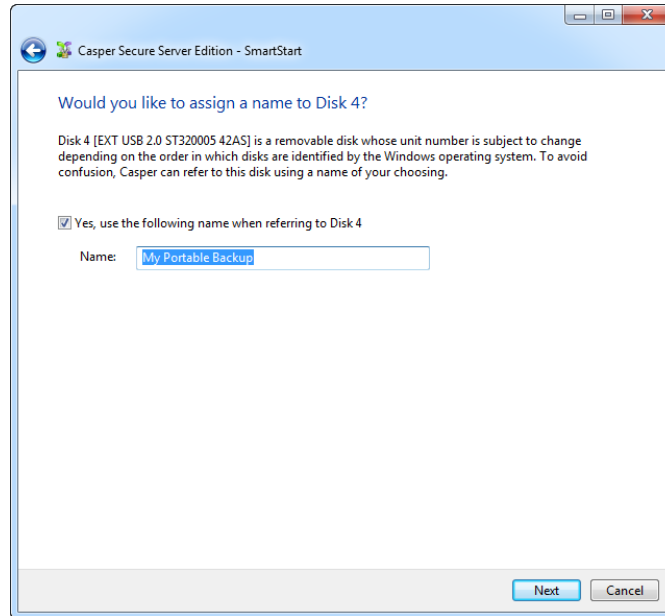
Configuring a SmartSense Backup

The process described below is the same whether you have just completed an initial backup as demonstrated in Example 1 or updated an existing backup as demonstrated in Example 2.
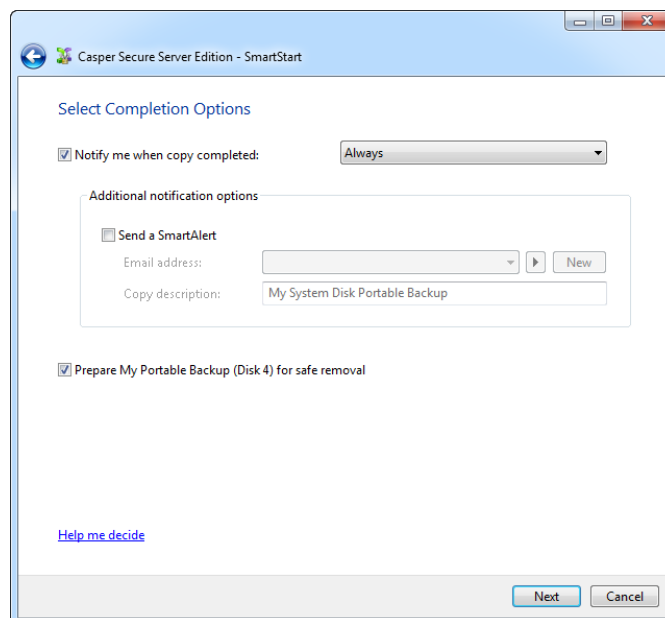
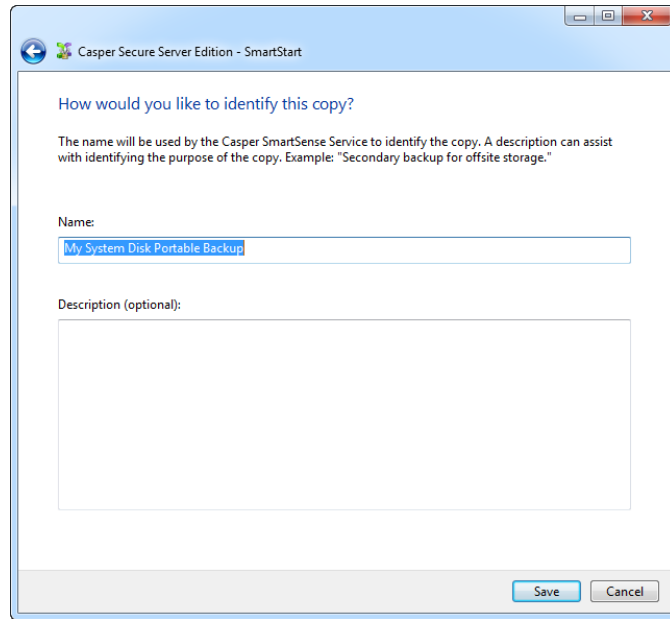1. After completing a backup as described in one of the preceding examples, click **Automate this backup**.

2. When using an external hard disk for the backup, Casper Secure will prompt you to assign a name to the disk. A name is optional. If you use multiple external hard disks, a name can make it easier to identify which external hard disk is being used for a Casper Secure backup. Click **Next** to proceed.
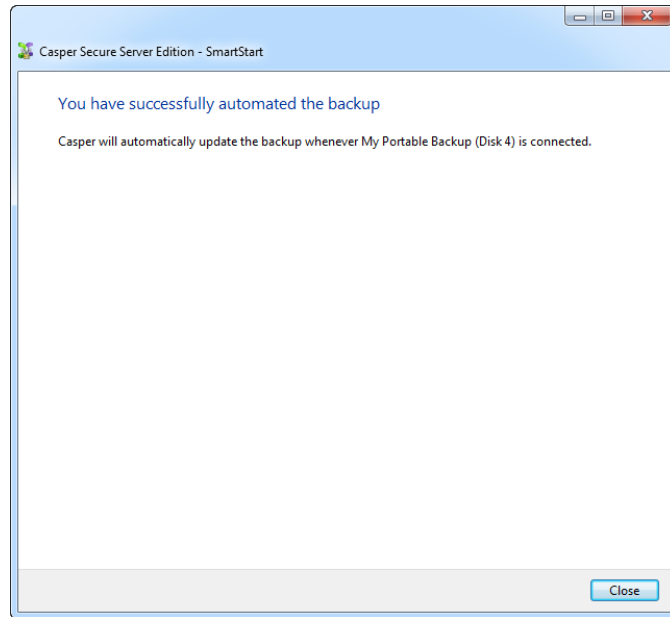

3. Select the desired completion options, and click **Next**.

4. Enter a name to uniquely identify the backup, or retain the name suggested by Casper Secure, and then click **Save** to register the backup with the Casper SmartSense service.
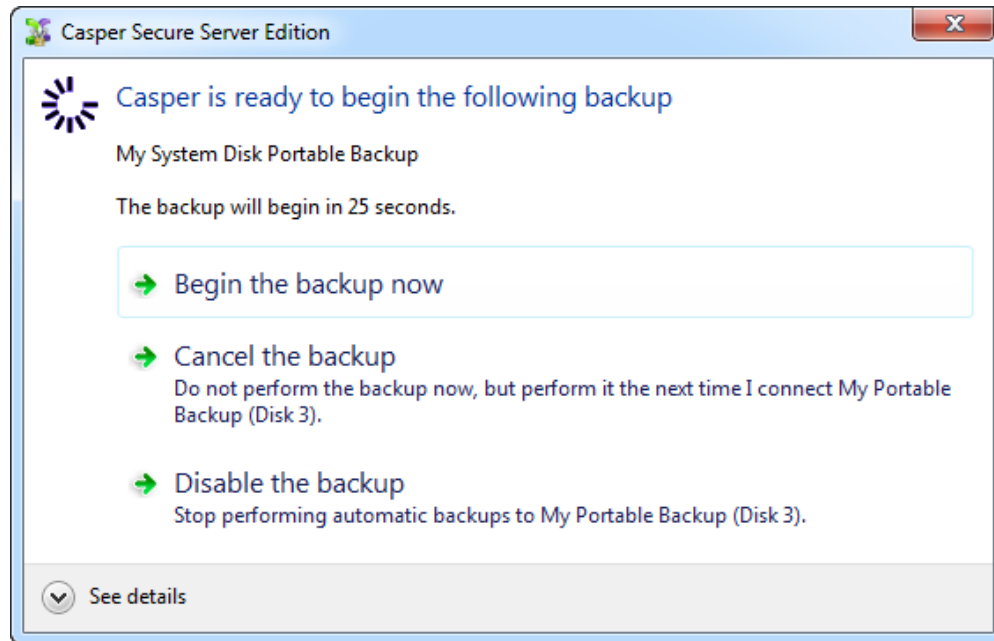

5. Click **Close**.

Starting a SmartSense Backup

Once your portable backup drive has been registered with the Casper SmartSense service, the backup can be started by simply attaching the portable drive to the computer.

The backup will start automatically after a short delay. You can begin the backup immediately by selecting **Begin the backup now**. Click **Cancel the backup** to skip the backup, or **Disable the backup** to skip the current backup and prevent future backups from beginning automatically.
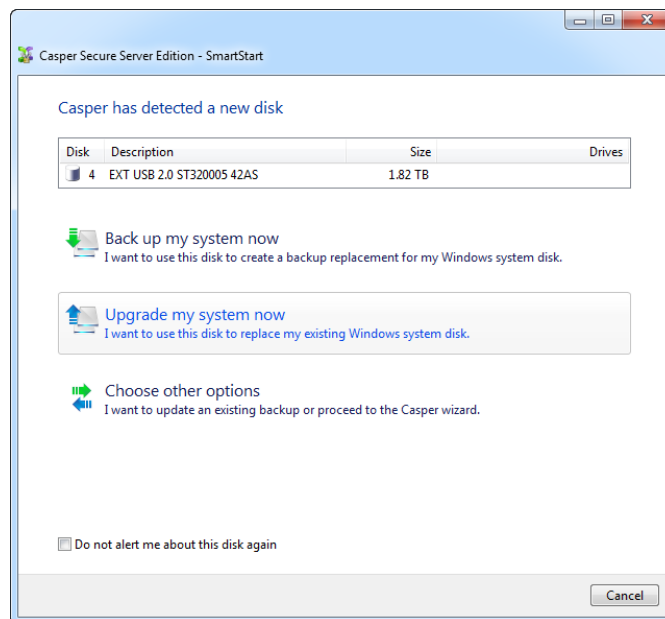
Upgrading the Windows System Disk

The procedure for upgrading or replacing a hard disk in a server is basically the same whether you are upgrading a single hard disk or a RAID array configured through a hardware RAID controller. The new hard disk or RAID array must be temporarily installed or configured as a secondary disk device in the computer or attached as an external disk using an external USB, Firewire, or eSATA hard disk enclosure or bridge adapter.

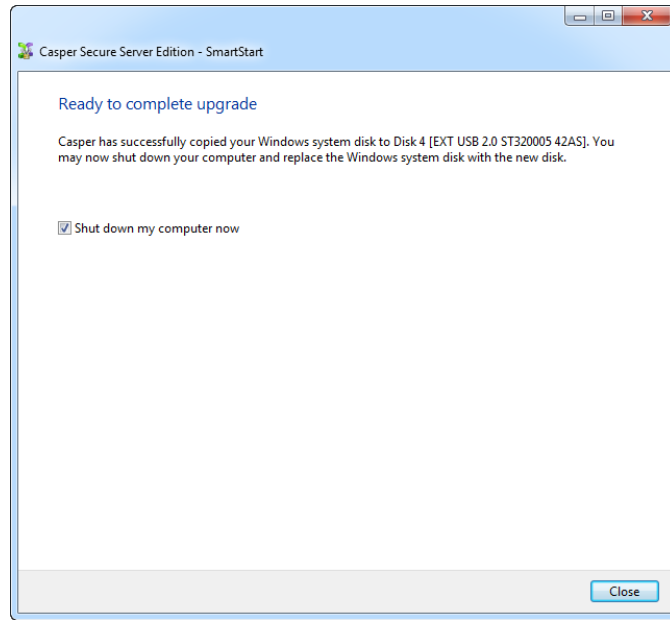## Example 5: Upgrading the Windows System Disk

When you attach a new hard disk to the computer using an external USB, Firewire, or eSATA interface, Casper Secure SmartStart will prompt you to upgrade the system automatically. If the new disk device is installed internally, or if Casper SmartSense is unable to detect the new disk, you must manually launch Casper Secure SmartStart to begin the process.

When performing an upgrade, Casper Secure SmartStart will automatically make all of the necessary selections within Casper Secure to immediately copy the Windows system disk device to the new disk.

1. Select **Upgrade my system now**

2. When Casper Secure has completed the cloning process, click **Close**.

3. Reconfigure the computer to replace the original hard disk or RAID array with the new disk device.