C A S P E R ™

SMARTSTART GUIDE
VERSION 7.0

Future Systems
SOLUTIONS

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Introduction

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

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

System Requirements

- Windows 7, Windows Vista, Windows XP, or Windows 2000 Workstation

  NOTE: Casper is not designed for use with Windows NT, Windows Server 2003, Windows 2000 Server, and Windows 2000 Advanced Server. Background copying not supported on Windows 2000.

- 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 your Windows system hard disk automatically when you attach a new or existing backup hard disk to your computer. When the hard disk is already installed or attached, you can manually launch Casper SmartStart.

Manually Starting Casper SmartStart

1. Click the **Start** button.

2. Click **All Programs**.

3. Point to the **Casper 7.0** menu.

4. Click **Casper 7.0 SmartStart**.

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

Creating and Maintaining a Bootable System Backup

Using Casper to create and maintain a bootable backup for your computer system requires a hard disk large enough to accommodate all of the data on the current Windows system hard disk.

For a desktop system, using a second internal hard disk, or one mounted in a removable (mobile) drive bay for the backup hard disk is ideal. If the desktop system supports booting from eSATA or USB hard disk type devices, using an external hard disk for the backup also is ideal. For a notebook computer, a secondary media bay or external USB, Firewire, eSATA, or PCMCIA hard disk enclosure designed specifically for a 2.5" notebook hard disk is recommended to mount and attach the backup hard disk to the notebook. Using a 3.5" external desktop hard disk as the backup for a notebook is not recommended unless the notebook supports booting from eSATA or USB hard disk type devices.

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 for use as a complete backup replacement for your Windows system disk. The second example, **Updating a Backup**, shows how to manually update an existing backup of your Windows system disk. 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.

For help with installing a hard disk, see **Installing a new hard disk** under **Additional Resources** in the **Casper Help and Documentation**.


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 Startup Disk to copy the external backup hard disk to the computer's internal hard disk.
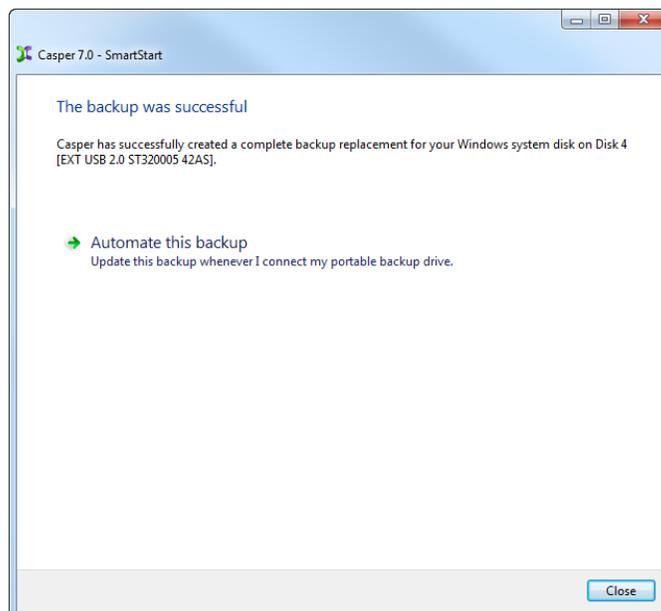

Example 1: Creating a Backup

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

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

1. Select **Back up my system now**.
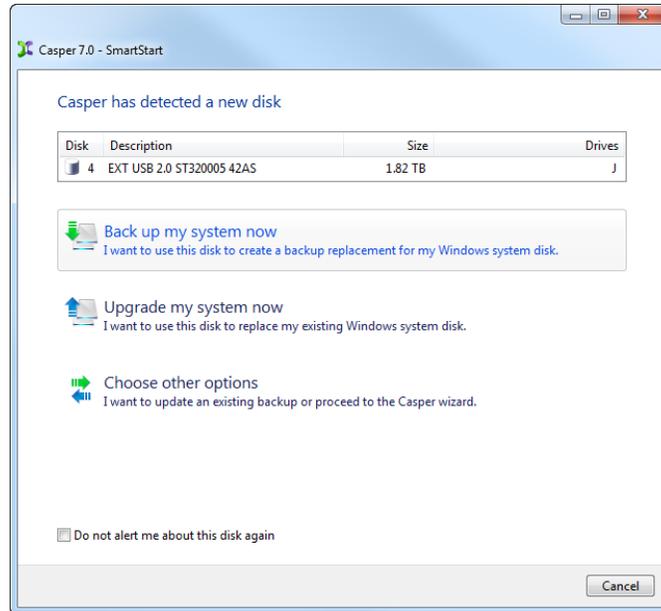
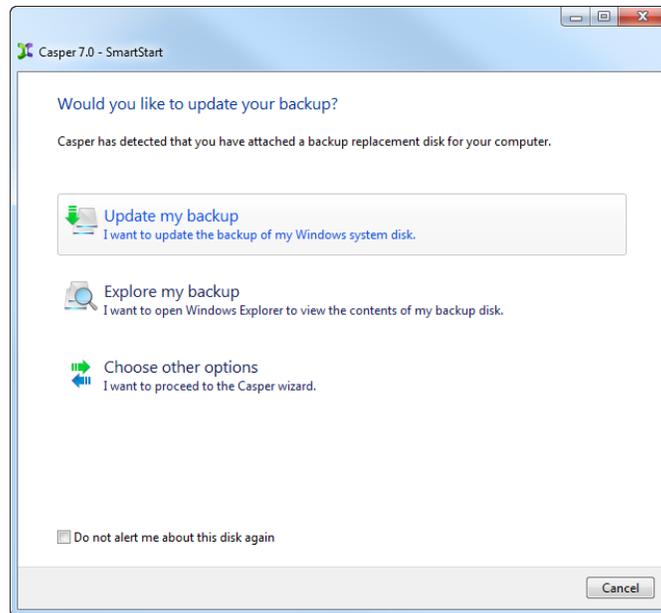2. When Casper has completed the backup, click **Close**.

Example 2: Updating a Backup

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

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

1. Select **Update my backup**.

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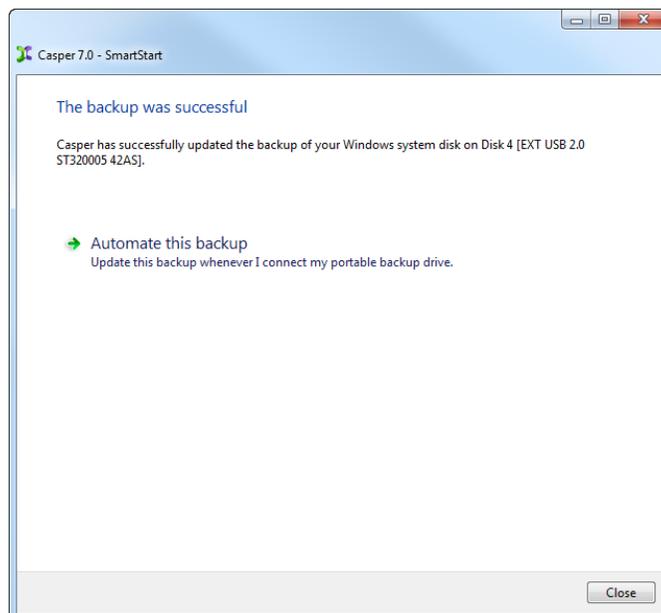
Example 3: Automating an Internal Backup

You can fully automate the backup process by scheduling Casper to run on a routine basis when the backup drive 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.
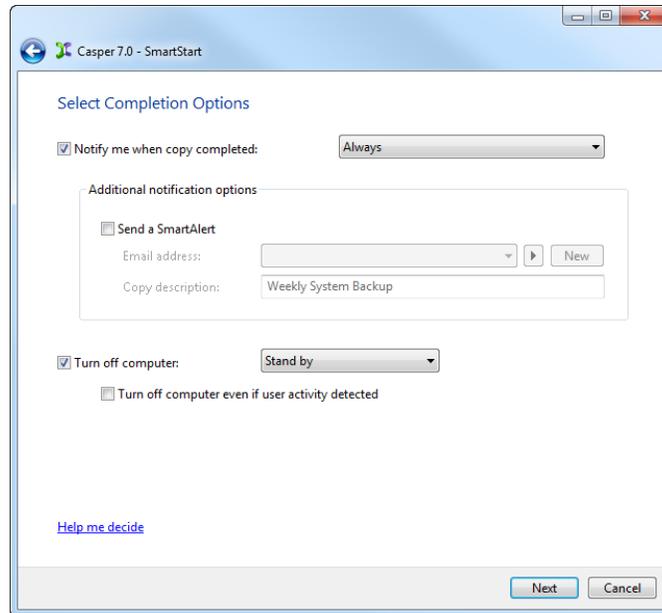
1. After completing a backup as described in one of the preceding examples, click **Automate this backup**.
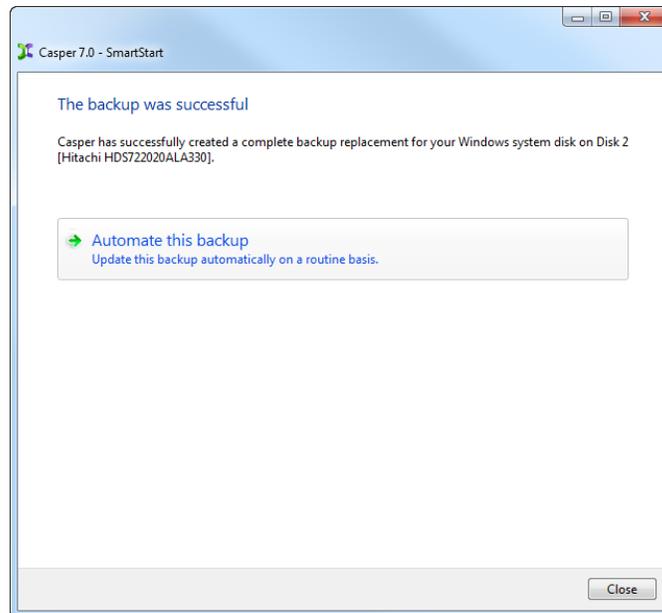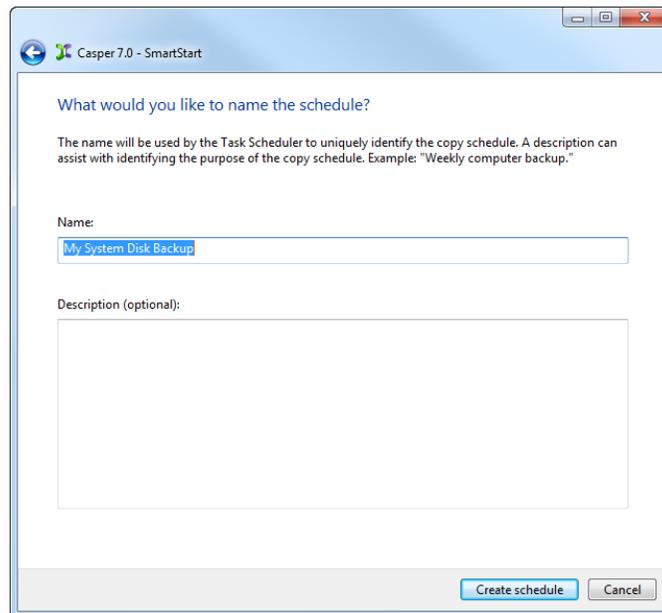

2. Select the schedule you would like Casper to follow to maintain the backup, and click **Next**. For help with the schedule, press **F1**.
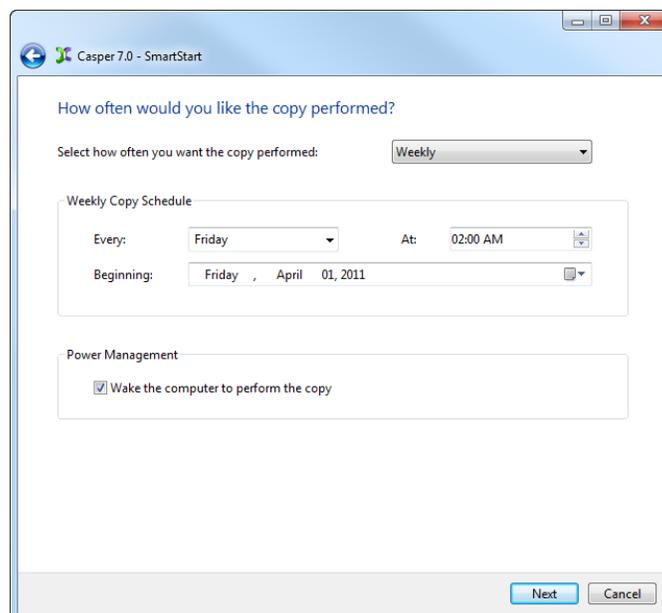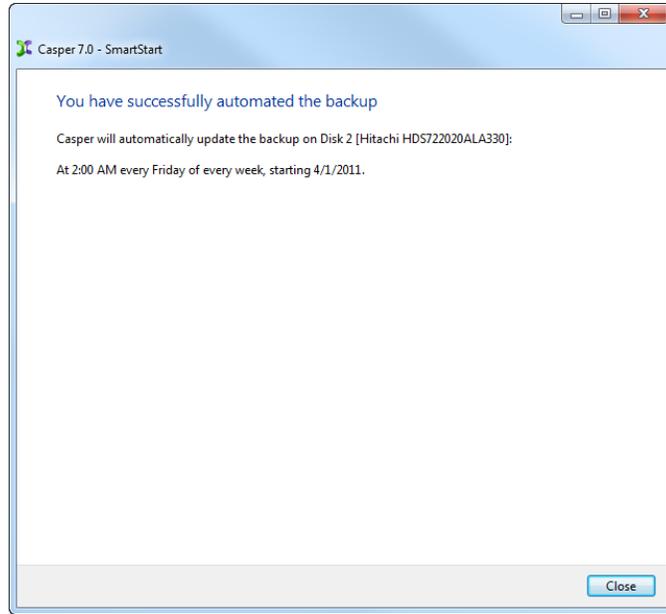
3. Select the desired completion options, and click **Next**.

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

5. Click **Close**.

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You have successfully automated the backup

Casper will automatically update the backup on Disk 2 [Hitachi HDS722020ALA330]:

At 2:00 AM every Friday of every week, starting 4/1/2011.

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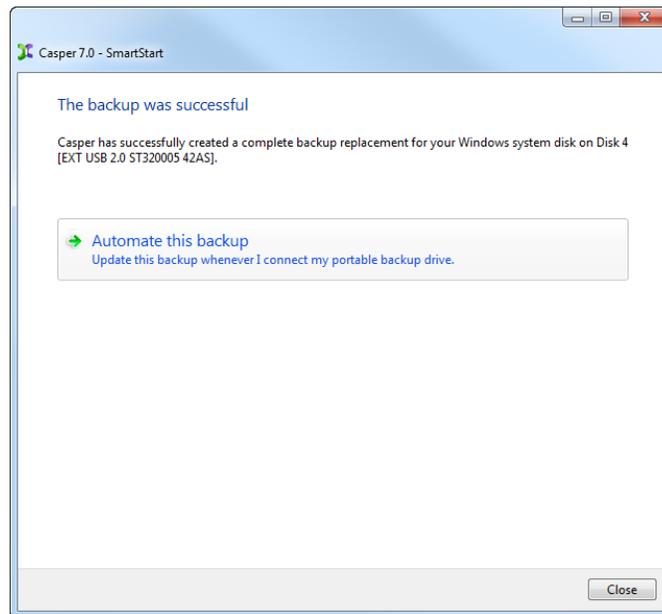
2. When using an external hard disk for the backup, Casper will prompt you to assign a name to the disk. A name is optional. If you use multiple external hard disks, a name can make it easier to identify which external hard disk is being used for a Casper backup. Click **Next** to proceed.
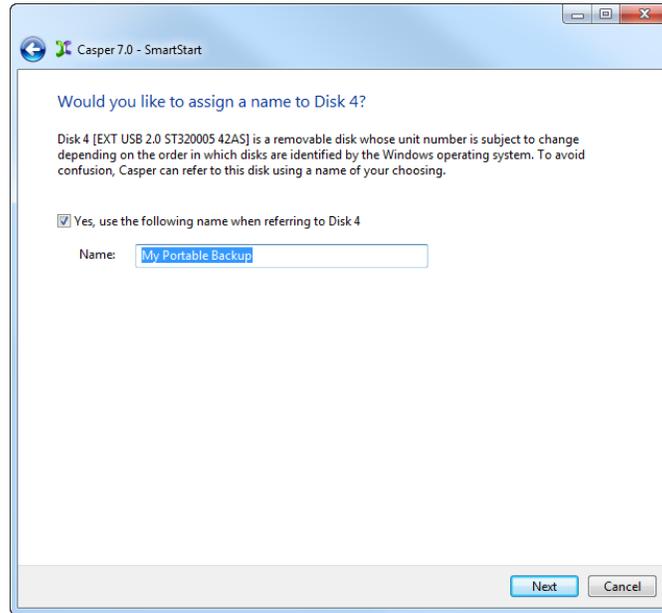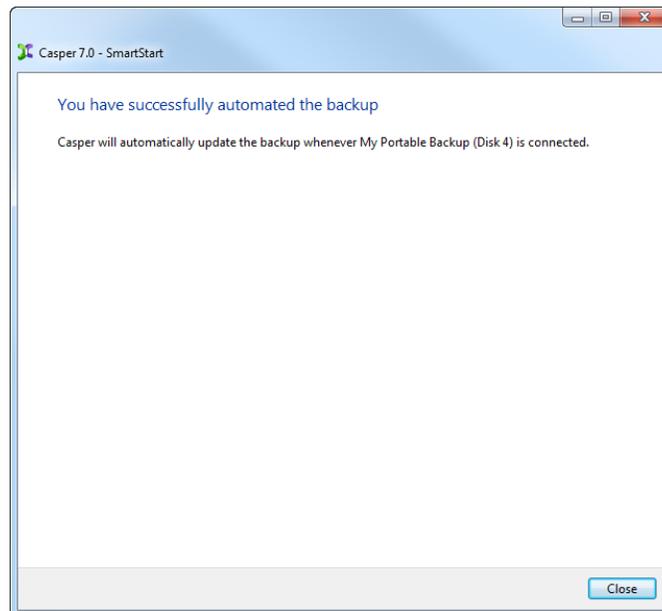

3. Select the desired completion options, and click **Next**.
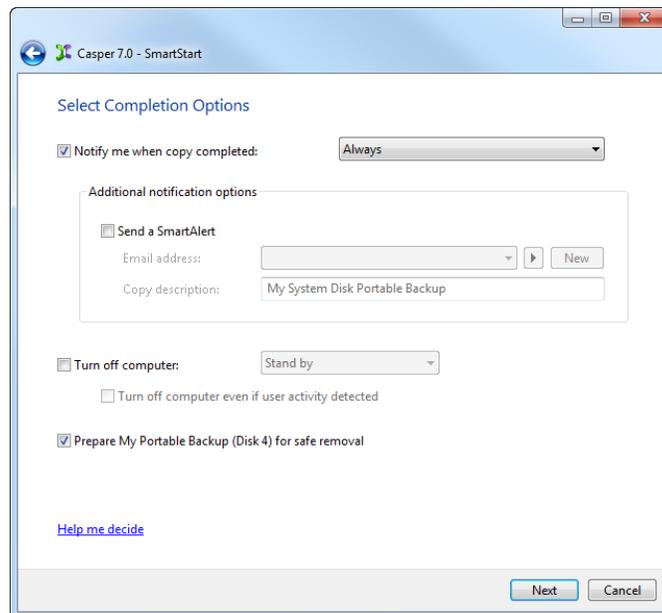
4. Enter a name to uniquely identify the backup, or retain the name suggested by Casper, and then click **Save** to register the backup with the Casper SmartSense Service.
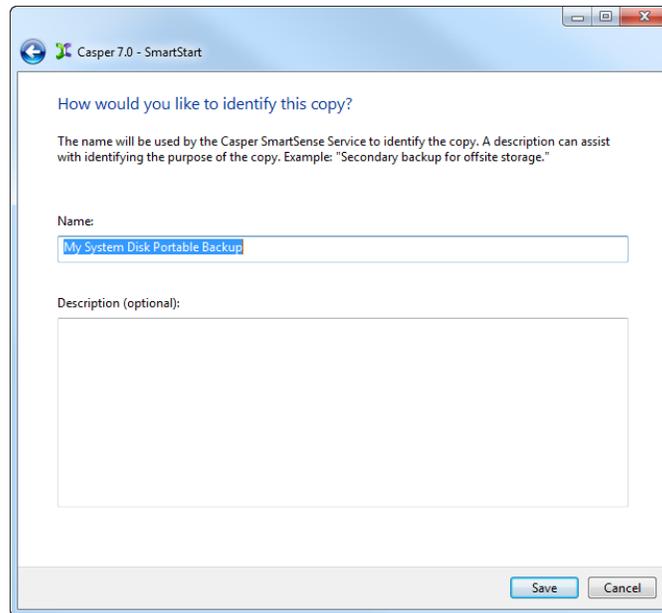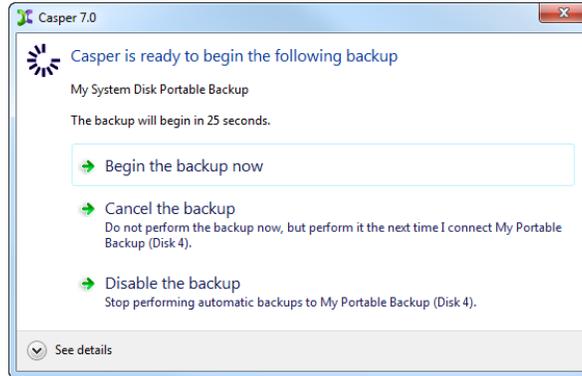

5. Click **Close**.

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 and replacing your Windows system hard disk is basically the same whether you are upgrading a hard disk in a desktop or a notebook. For a desktop system, the new hard disk is temporarily installed as a secondary hard disk in the computer or attached as an external hard disk using an external USB, Firewire, or eSATA hard disk enclosure or bridge adapter. For a notebook computer, a secondary media bay or external USB, Firewire, eSATA, or PCMCIA hard disk enclosure or bridge adapter is required to connect the new hard disk to the notebook.

## Example 5: Upgrading the Windows System Disk

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

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

1. Select **Upgrade my system now**
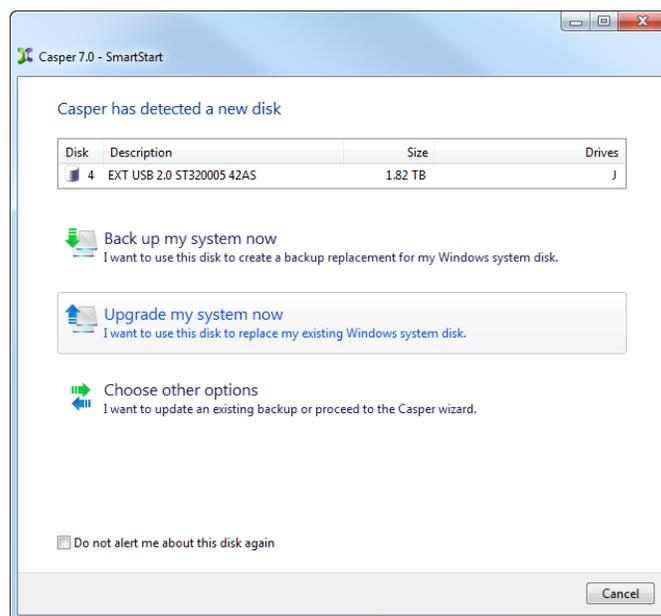
2. When Casper has completed the cloning process, click **Close**.
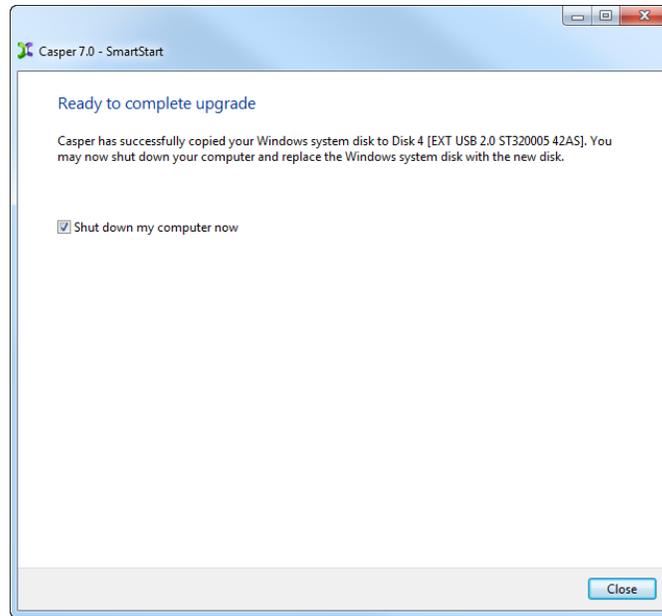
3. Reconfigure the computer to replace the original hard disk with the new hard disk.

   If the new hard disk is installed in a secondary media bay of a notebook, or installed in an external USB, Firewire, eSATA, or PCMCIA enclosure, simply remove the hard disk from its enclosure and exchange it with the original hard disk.

   For a new hard disk that has been temporarily mounted as a secondary internal hard disk, change the hard disk jumpers and cable connection as required to make the new hard disk the master on the primary IDE or SATA controller.

   For detailed instructions on how to replace a hard disk in a desktop system, see **Replacing a hard disk** under **Additional Resources** in the **Casper Help and Documentation.**