



C A S P E R X P TM

USER GUIDE

VERSION 3.0



Future Systems
SOLUTIONS

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Introduction

Casper XP is a hard disk cloning solution engineered specifically for Windows and designed to meet the expectations of the PC user looking for an easy-to-use, convenient, and dependable backup, recovery, and migration solution for their PC.

As a backup and recovery solution, Casper XP offers you these unique advantages:

- Casper XP operates entirely from within Windows.
- Casper XP can clone a disk at any time so there is never a need to restart the computer or stop work to create a backup. Integrated scheduling even permits a backup to be performed completely unattended in the background.
- Casper XP creates a fully bootable clone of a system drive. This means there are no special rescue disks or arduous data restoration processes to follow in the event of a system hard disk failure. Recovery is as simple as booting from the backup.

NOTE: This User Guide is intended to provide you with an overview of the basic operations of Casper XP. For additional assistance, please refer to the detailed help files included within the program.

System Requirements

- Windows XP Professional, Windows XP Home Edition, or Windows 2000.
Note: Windows XP and NTFS are required for background copying support. Casper XP is not designed for use with Windows Server 2003, Windows 2000 Server, and Windows 2000 Advanced Server.
- 50MB free disk space
- 32MB RAM (128MB recommended)
- 800 x 600 minimum screen resolution display setting for Casper XP Console interface

Getting Help

The Casper XP online help includes troubleshooting information. To access online help when running Casper XP, select **Contents** from the **Help** menu, or press **F1**.

Additional support for Casper XP is available on the Future Systems Solutions Web site at www.fssdev.com/support.

Installing and Running Casper XP

The Casper XP installation process takes just a few minutes and an automated Wizard will guide you through the process. The instructions below outline in detail the steps for installing Casper XP.

Installing Casper XP

1. Start the **Casper XP Setup** program.

If you have a Casper XP Setup CD, insert the CD and click **Install Casper XP** on the setup menu. If the setup menu does not appear automatically, browse the CD and double-click **AUTORUN.EXE**.

2. At the welcome dialog, click **Next**.

The software license agreement will appear. In order to proceed with the installation of Casper XP, you must agree to the terms of the license that is displayed.

3. Read the software license agreement, and then click **Yes**.

The **Choose Destination Location** dialog will appear.

4. Choose the destination folder for the Casper XP program files and click **Next**.

The **Select Program Folder** dialog will appear.

5. Select the name for the folder to display on the **Start > All Programs** menu and click **Next**.

The **Start Copying Files** dialog will appear.

6. Click **Next**.

The Casper XP files are added to your system and the **Installation Complete** dialog will appear.

7. Click **Finish** to finalize the installation process.

Running Casper XP

1. Click **Start**
2. Point to the **All Programs** menu.
3. Point to the **Casper XP** menu.
4. Click **Casper XP**.

Using Casper XP

Casper XP makes it easy to upgrade or maintain a backup of your Windows system hard disk.

When you use Casper XP to clone the Windows system hard disk to another hard disk, Casper XP creates a snapshot, representing a single point-in-time view of the disk, and then clones it to the specified hard disk. The result is a hard disk that can be used as an immediate and complete replacement for the original Windows system hard disk.

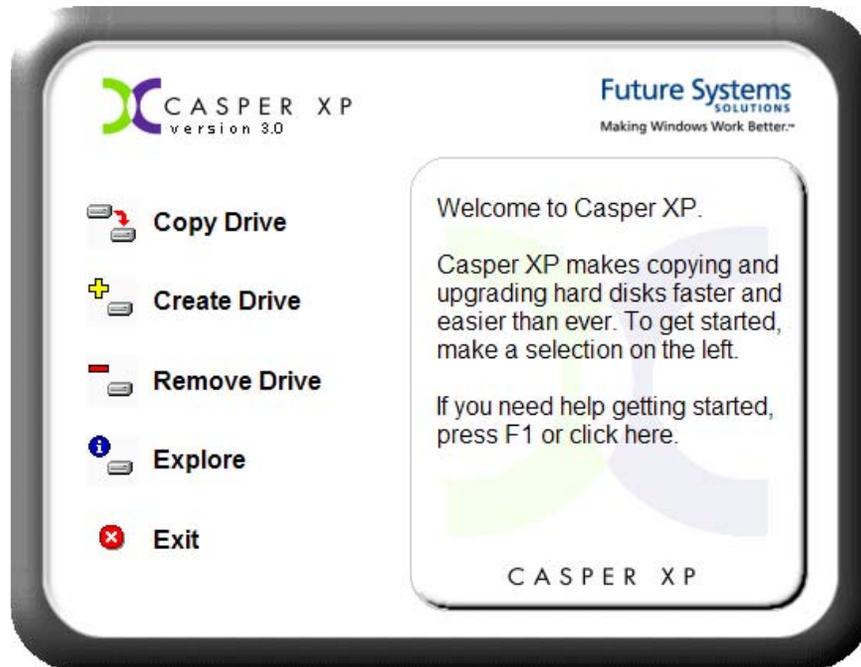
Upgrading a Hard Disk

The procedure for upgrading a 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. For example, a standard IDE hard disk may be installed either as a slave to the existing master on the primary IDE controller or as a master or slave on the secondary IDE controller. For a notebook computer, a secondary media bay or external USB, Firewire, or PCMCIA hard disk enclosure is required to mount and attach the new hard disk to the notebook.

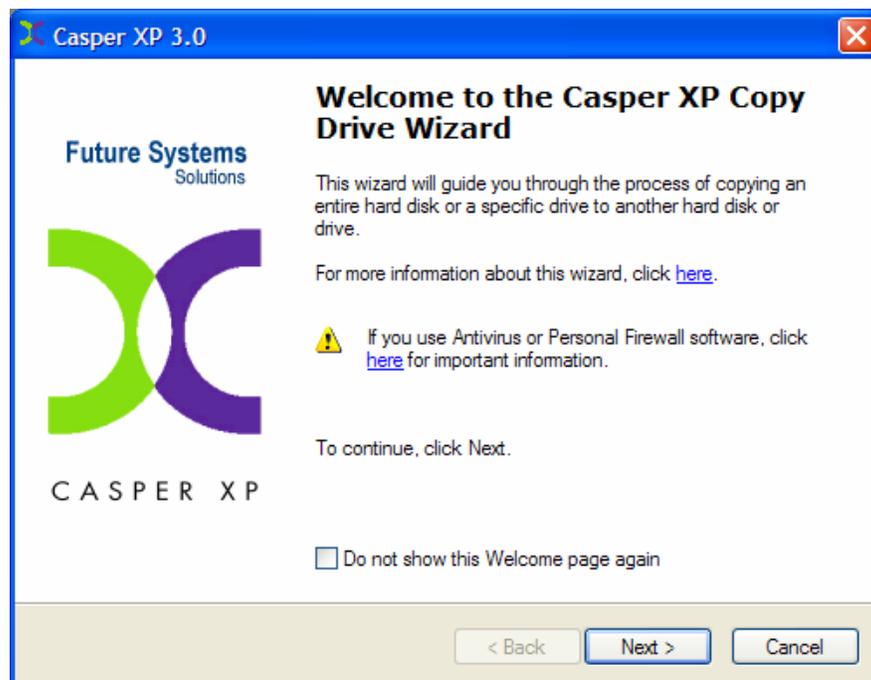
Assuming the new hard disk is currently installed or attached to the system, the following procedure illustrates how Casper XP may be used to clone the original hard disk to the new hard disk and complete the upgrade.

Example 1: Upgrading a Hard Disk

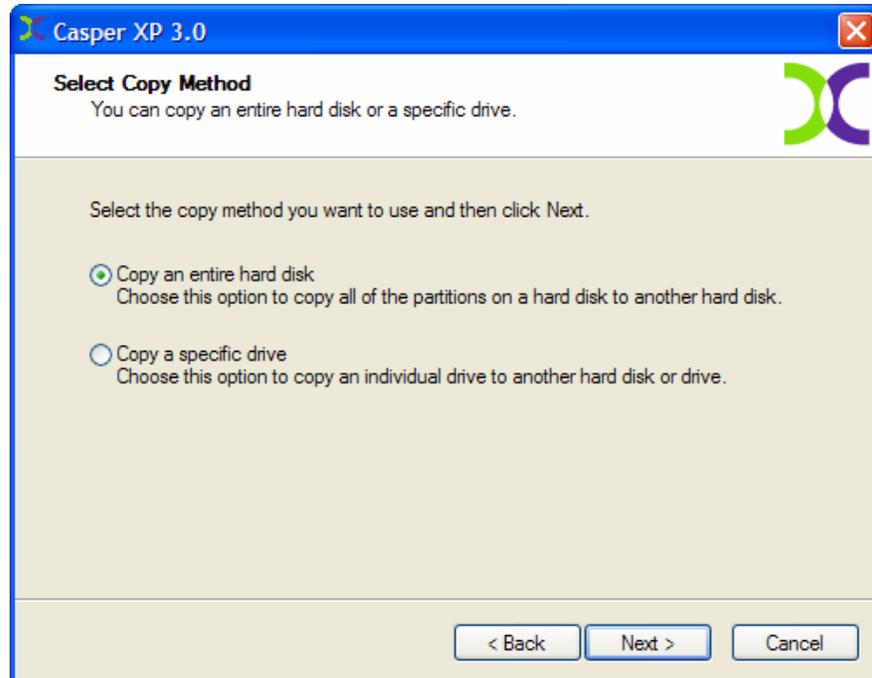
1. Start Casper XP.
2. Select **Copy Drive**.



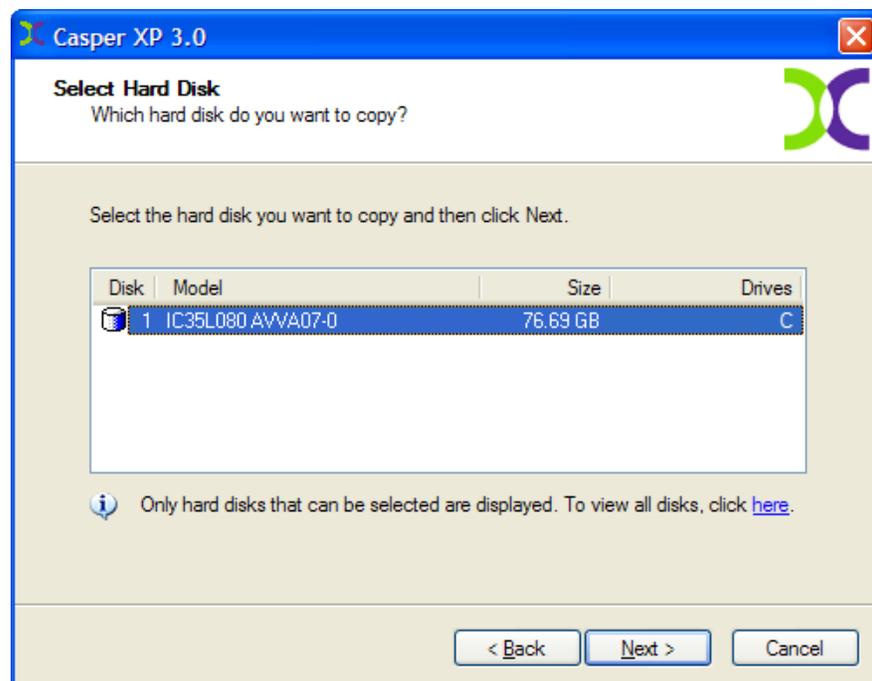
3. At the **Copy Drive Wizard** welcome screen, click **Next**.



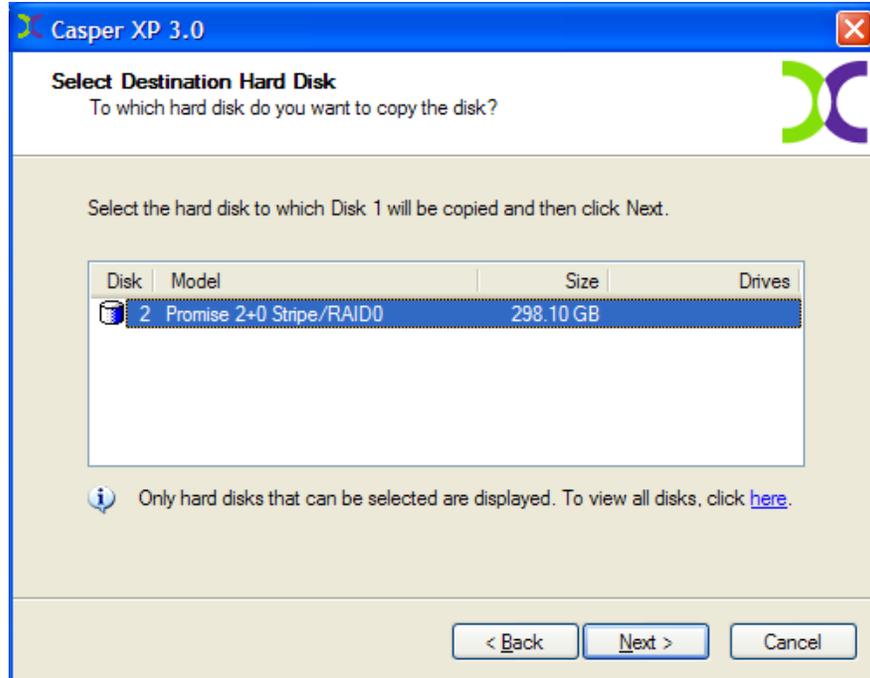
4. Select **Copy an entire hard disk** as the method to use, and click **Next**.



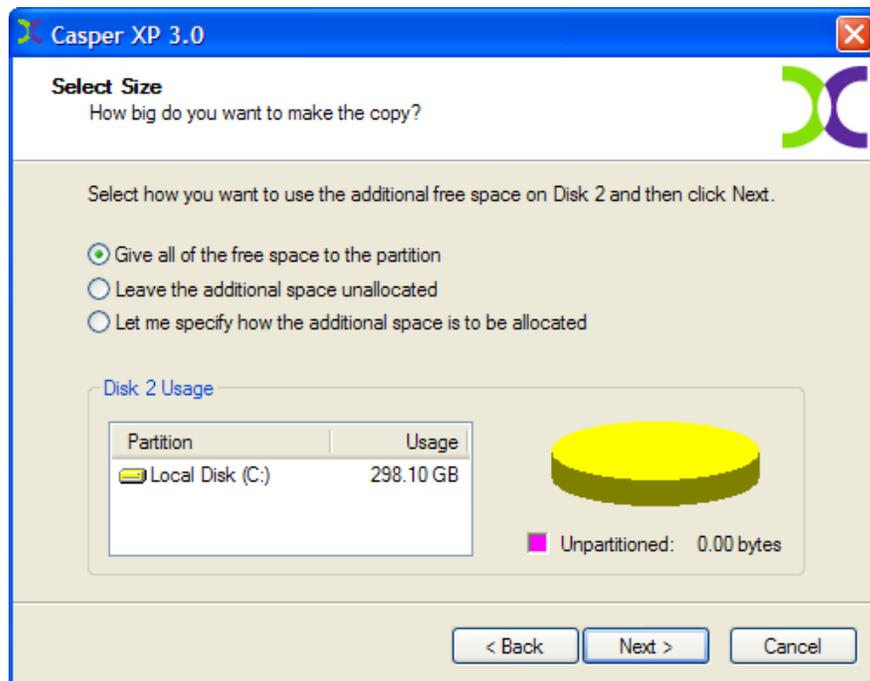
5. Select the hard disk to be upgraded (e.g. the hard disk on which Windows is installed) as the disk to copy, and click **Next**.



6. Select the new hard disk as the destination, and click **Next**.

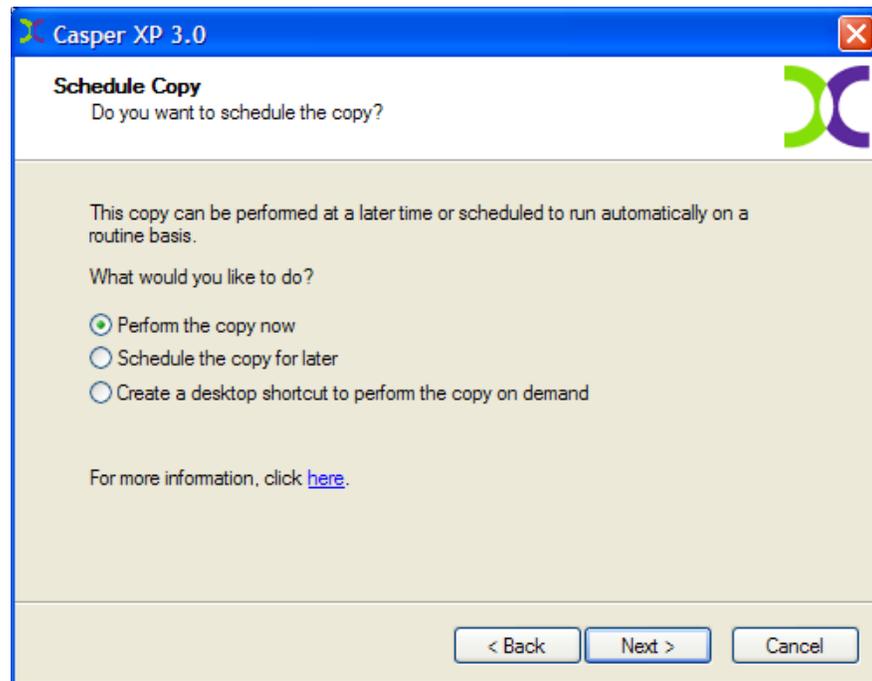


7. When prompted to specify how the additional space on the new hard disk is to be used, retain the default selection and click **Next**.

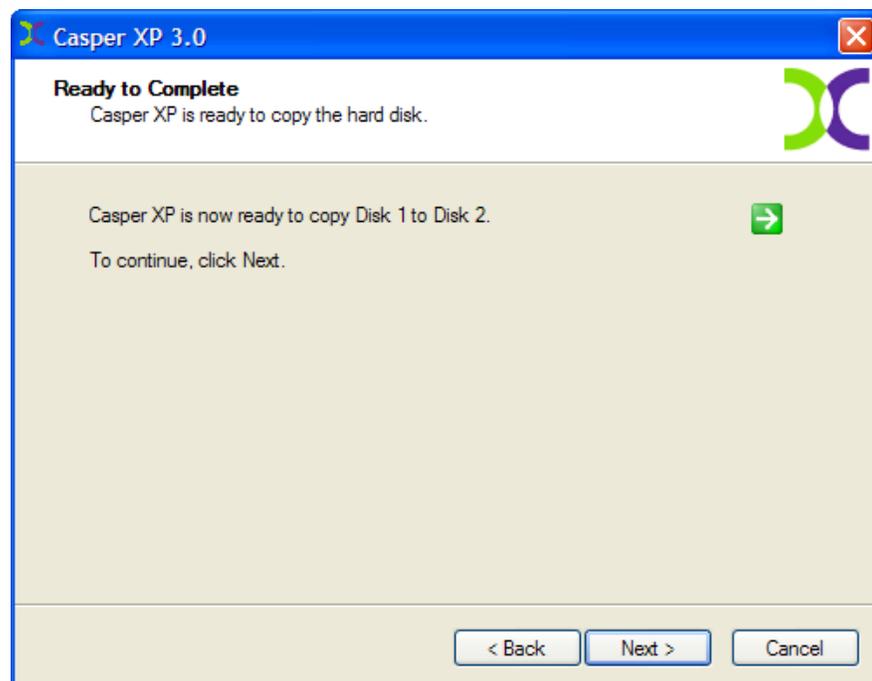


When the destination hard disk is larger than the source, the default option will be *Give all of the free space to the partition*, or *Proportionally distribute the free space to all partitions* when there is more than one partition defined on the source disk. For additional help with making a selection, press **F1**.

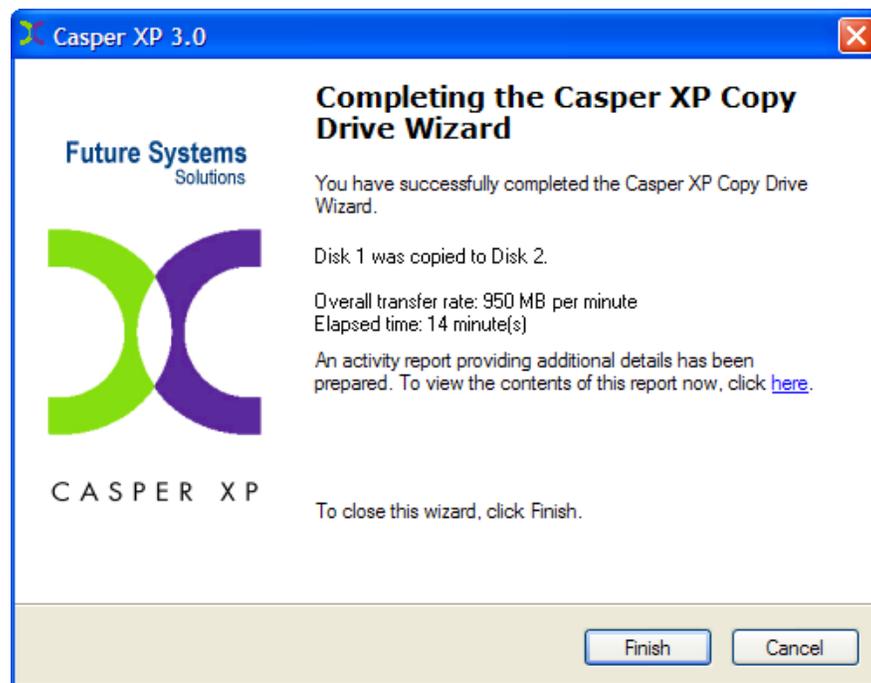
8. When prompted to schedule the copy for later, click **Next** to perform the copy now.



9. Casper XP is ready to begin the cloning process. Click **Next**.



- Once Casper XP has completed the cloning process, click **Finish** to close the Copy Drive Wizard.



- Shutdown and power-off the computer.
- 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, 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 online **Casper XP Help and Documentation**.

Creating and Maintaining a Bootable System Backup

Using Casper XP 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 mobile drive rack for the backup hard disk is ideal. For a notebook computer, a secondary media bay or external USB, Firewire, or PCMCIA hard disk enclosure designed specifically for a 2.5" notebook hard disk is required to mount and attach the second (backup) hard disk to the notebook.

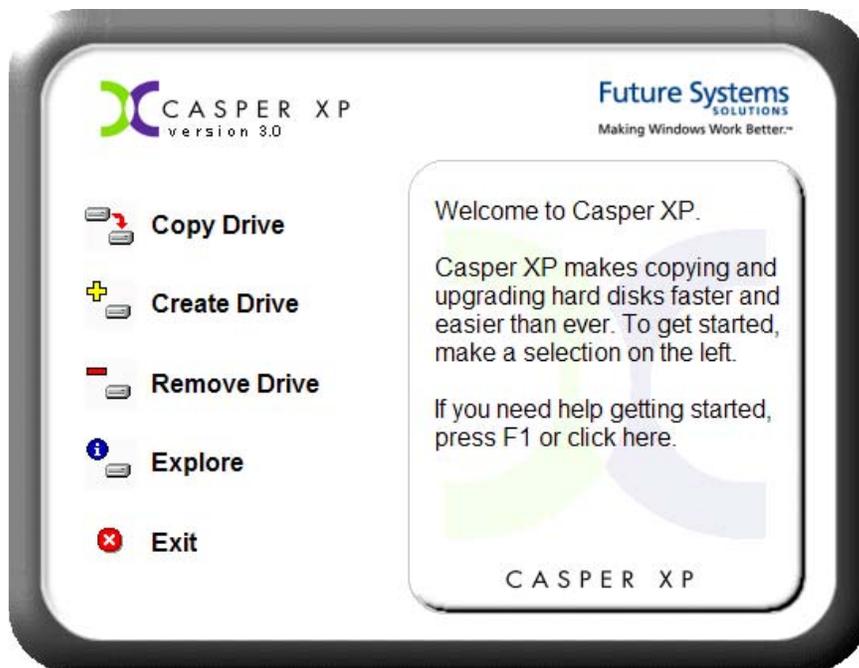
NOTE: While an external USB or Firewire hard disk may be used for the backup on a desktop system, Windows is not designed to boot and run directly from an external device. Consequently, an externally attached hard disk must be removed from its external USB or Firewire enclosure and installed as a replacement for the internal hard disk in order to boot from it.

Assuming the backup hard disk is currently installed or attached to the system, the following procedures illustrate how Casper XP may be used to clone the Windows system hard disk to the backup hard disk on either a desktop or notebook system. The first procedure, **Creating a Backup Hard Disk**, describes how to manually create a backup by cloning one hard disk to another. The second procedure, **Automatically Maintaining a Backup Hard Disk**, illustrates how to create a copy schedule to maintain the backup automatically. The third procedure, **Using 1-Click Cloning to Maintain a Backup Hard Disk** shows how to create a 1-Click Cloning desktop shortcut to maintain the backup on demand.

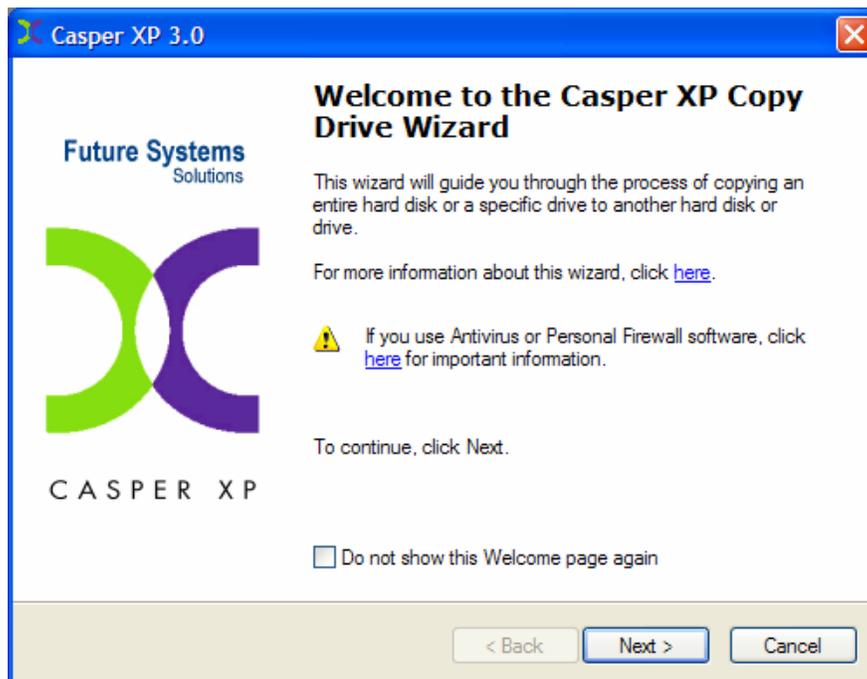
For help with installing a hard disk, see **Installing a new hard disk** under **Additional Resources** in the online **Casper XP Help and Documentation**.

Example 2: Creating a Backup Hard Disk

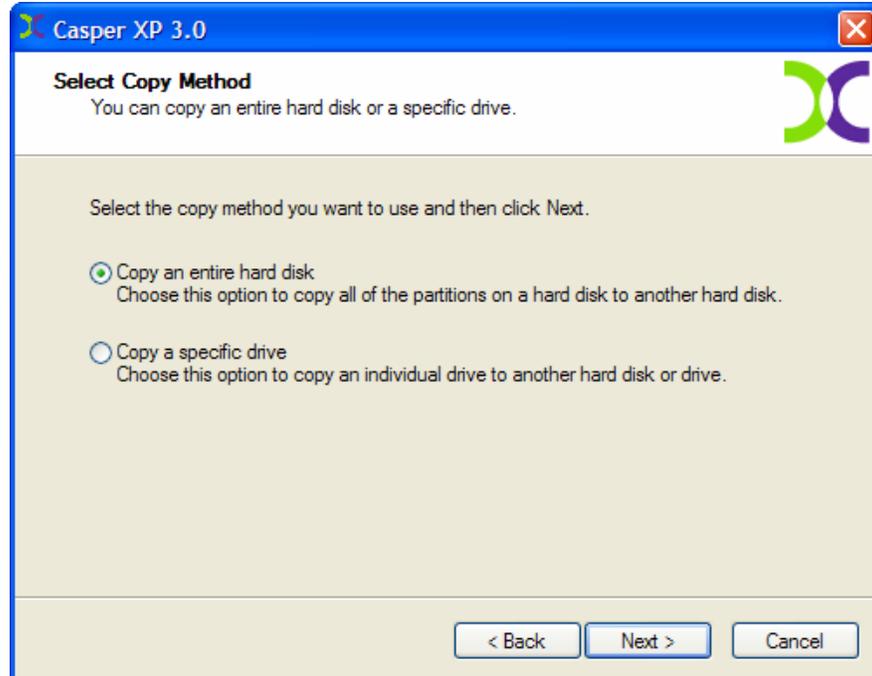
1. Start Casper XP
2. Select **Copy Drive**.



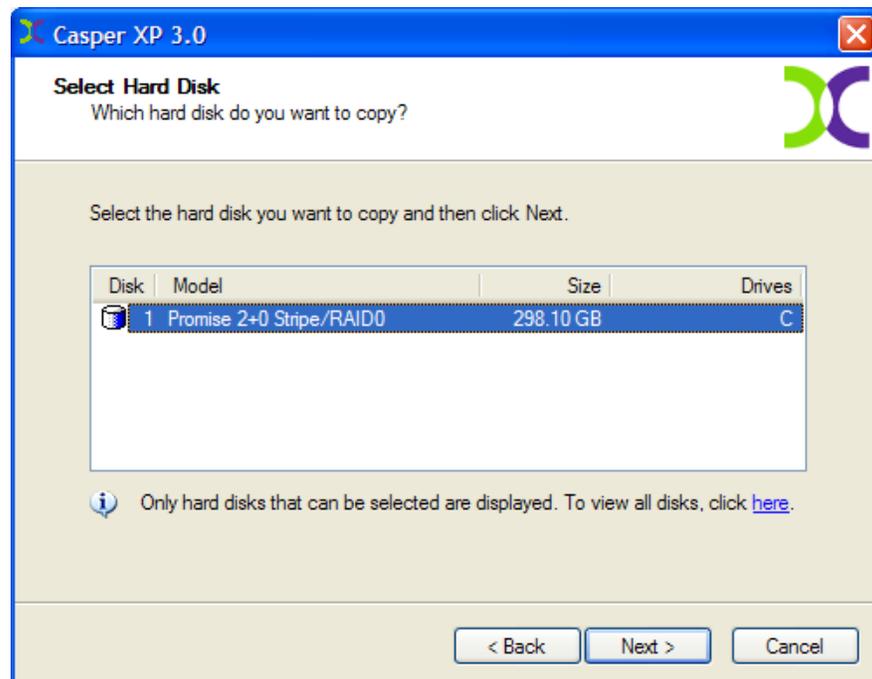
3. At the **Copy Drive Wizard** welcome screen, click **Next**.



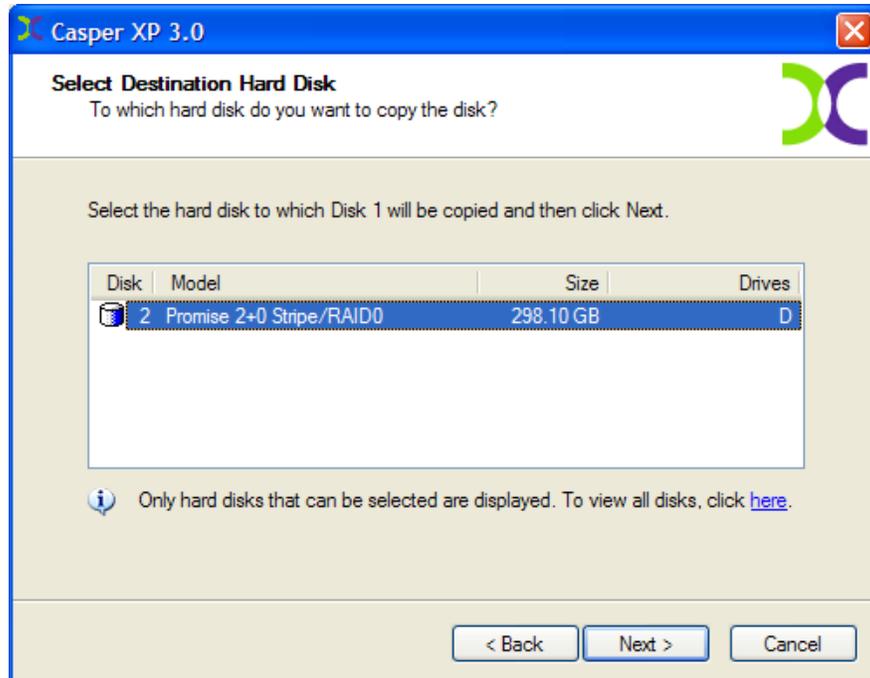
4. Select **Copy an entire hard disk** as the method to use, and click **Next**.



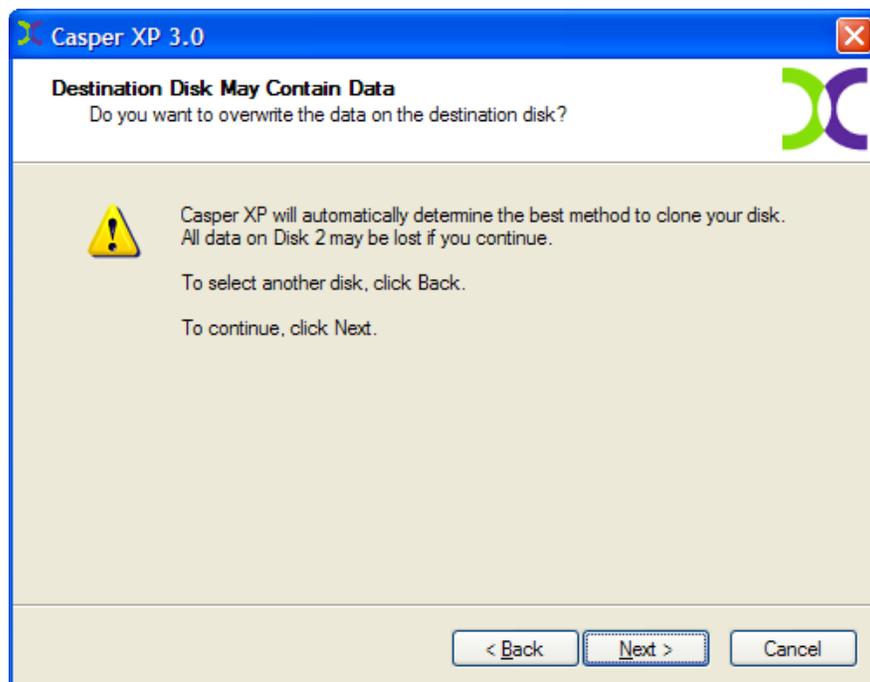
5. Select the hard disk to backup (e.g. the hard disk on which Windows is installed) as the disk to copy, and click **Next**.



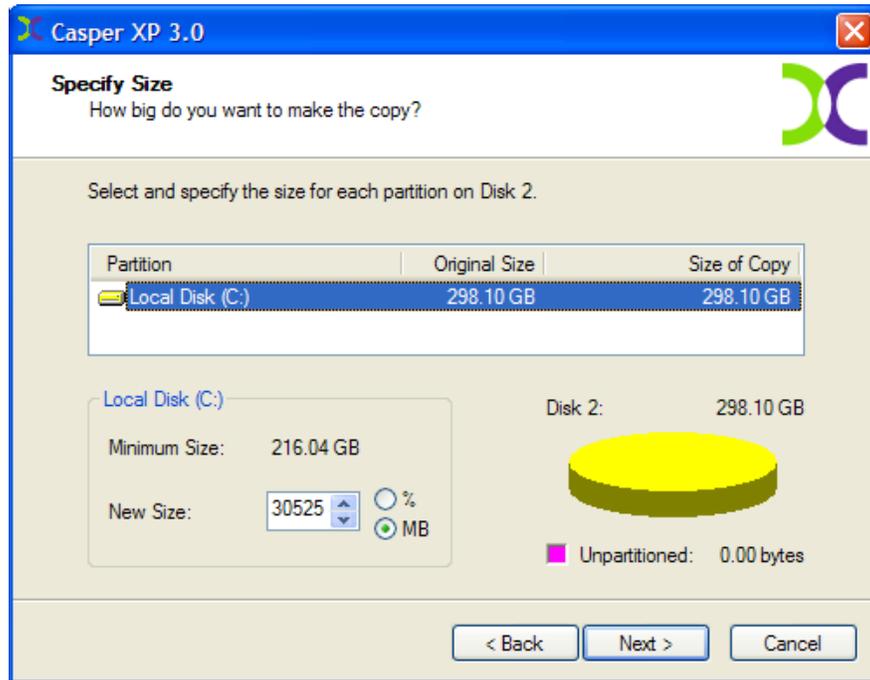
6. Select the backup hard disk as the destination, and click **Next**.



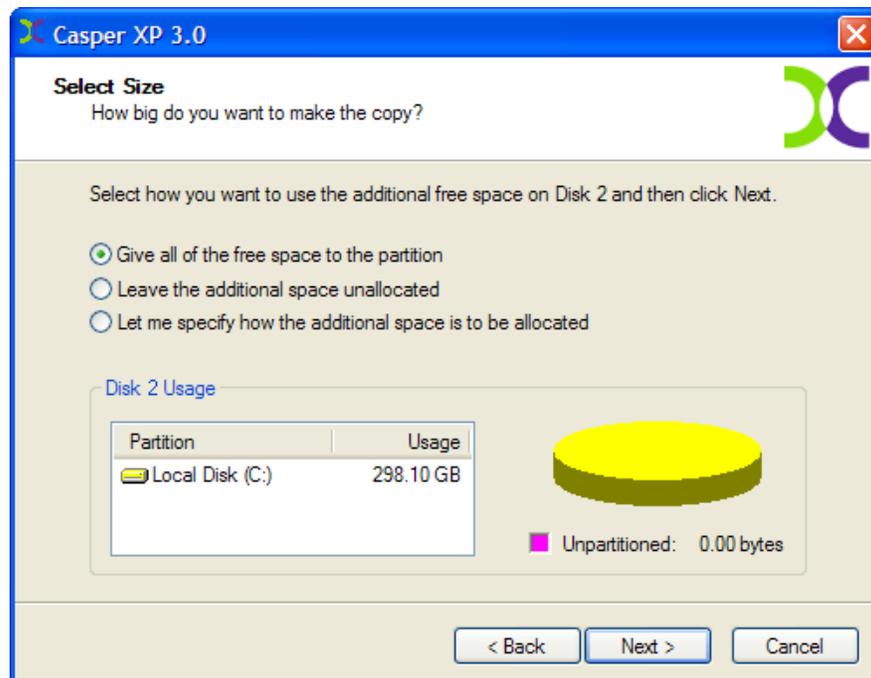
7. If the selected destination hard disk defines a partition or contains data, Casper XP will warn you that the contents will be overwritten. Confirm you have selected the correct hard disk to receive the backup, and click **Next** to proceed.



8. When prompted to specify how the space on the backup hard disk is to be used, retain the default selection and click **Next**. If the destination hard disk is the same size or smaller than the source hard disk, Casper XP will ask you to manually configure how the space is to be used.

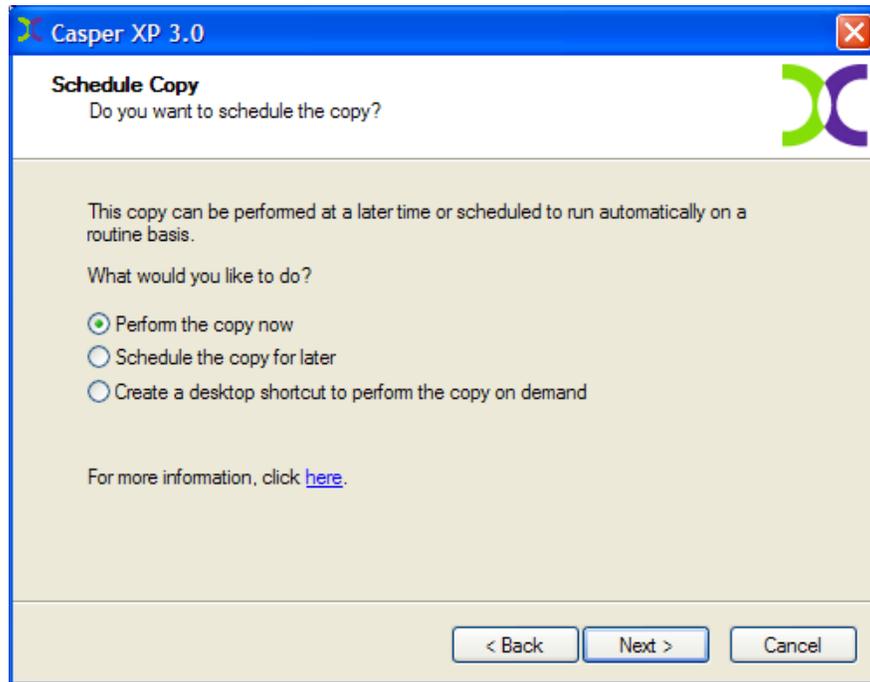


When the destination hard disk is larger than the source, the default option will be *Give all of the free space to the partition*, or *Proportionally distribute the free space to all partitions* when there is more than one partition defined on the source disk.

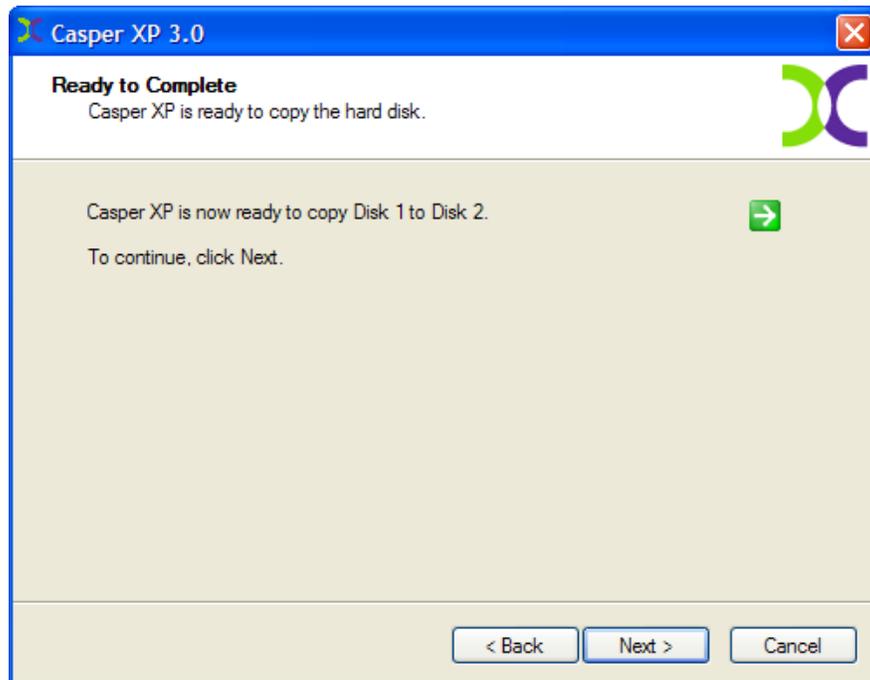


Simply clicking **Next** to accept the default selection or value is generally best. For additional help with making a selection, press **F1**.

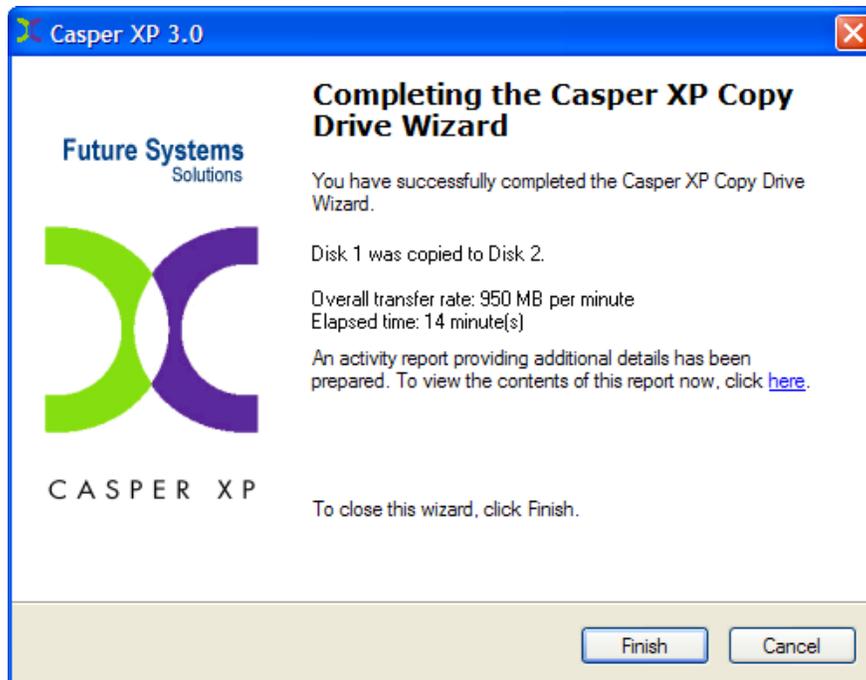
9. When prompted to schedule the copy for later, click **Next** to perform the copy now. Casper XP will be ready to begin the cloning process.



10. Click **Next** to begin the cloning process.

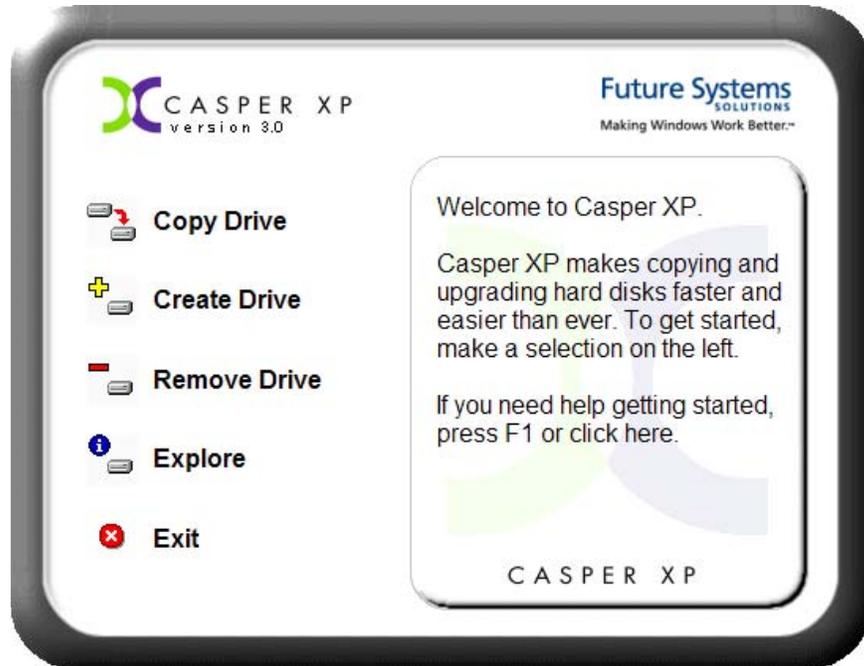


11. When Casper XP has completed the cloning process, click **Finish**.



Example 3: Automatically Maintaining a Backup Hard Disk

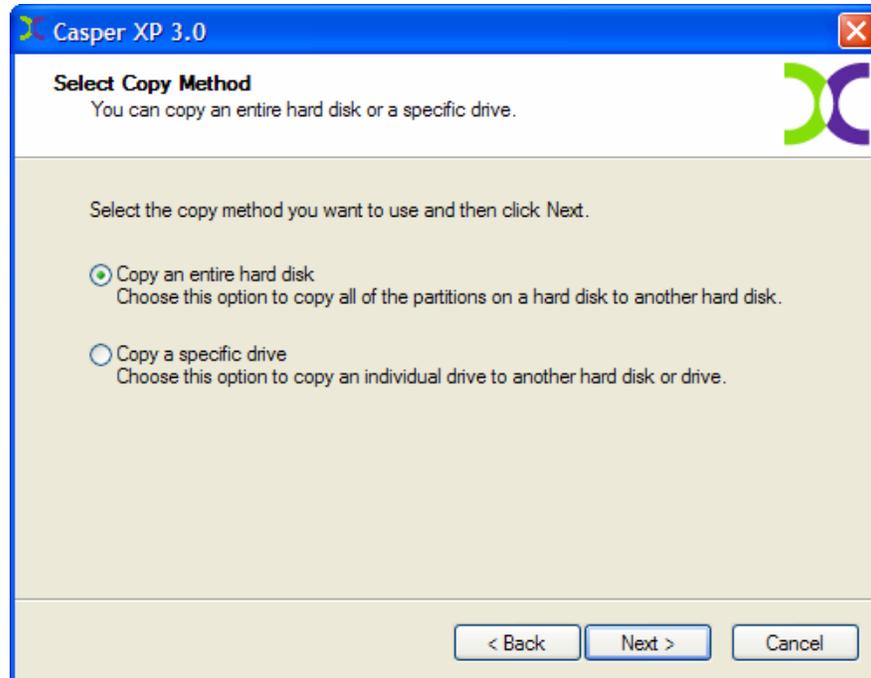
1. Start Casper XP
2. Select **Copy Drive**.



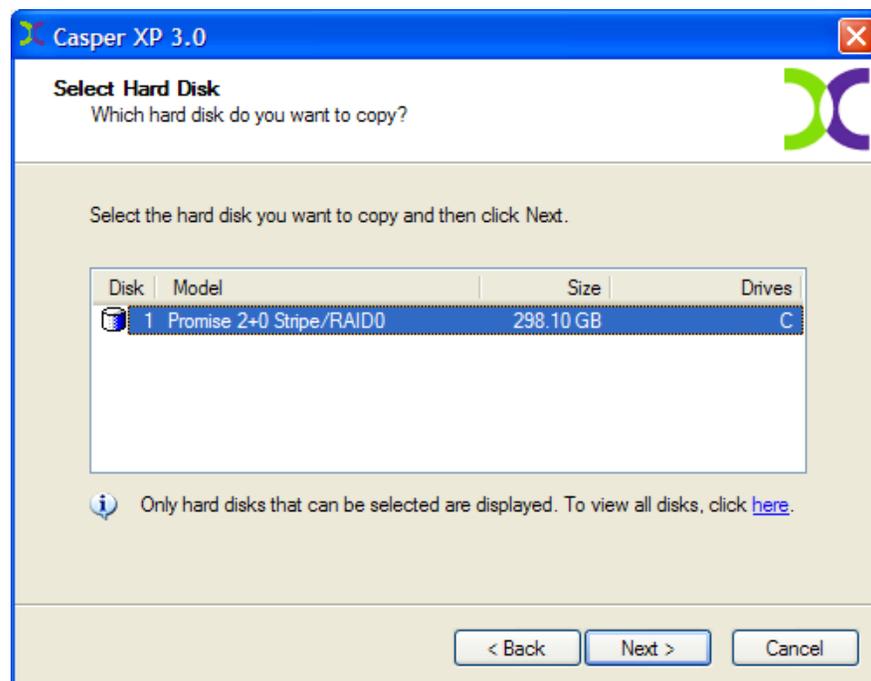
3. At the **Copy Drive Wizard** welcome screen, click **Next**.



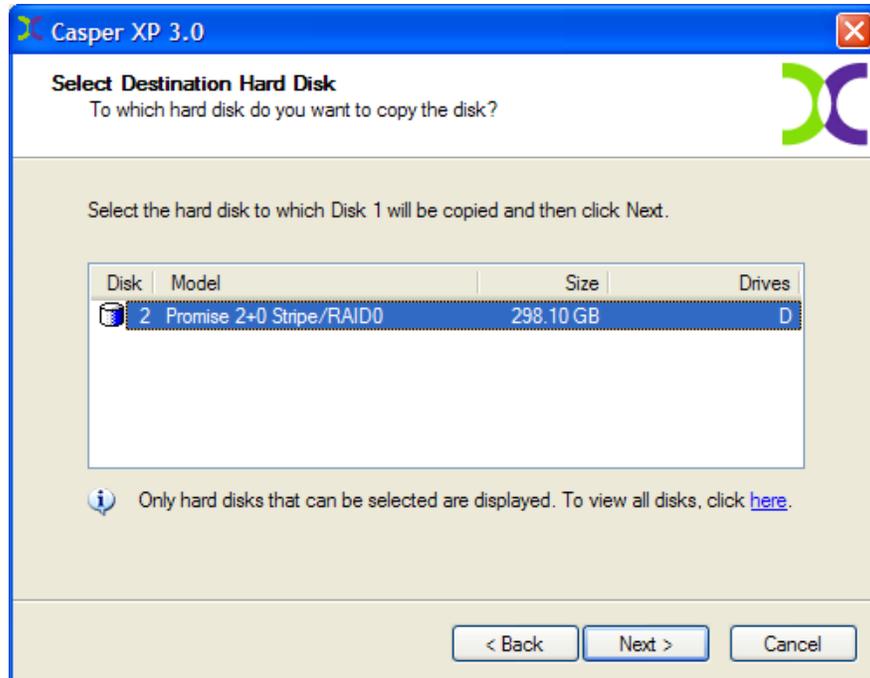
4. Select **Copy an entire hard disk** as the method to use, and click **Next**.



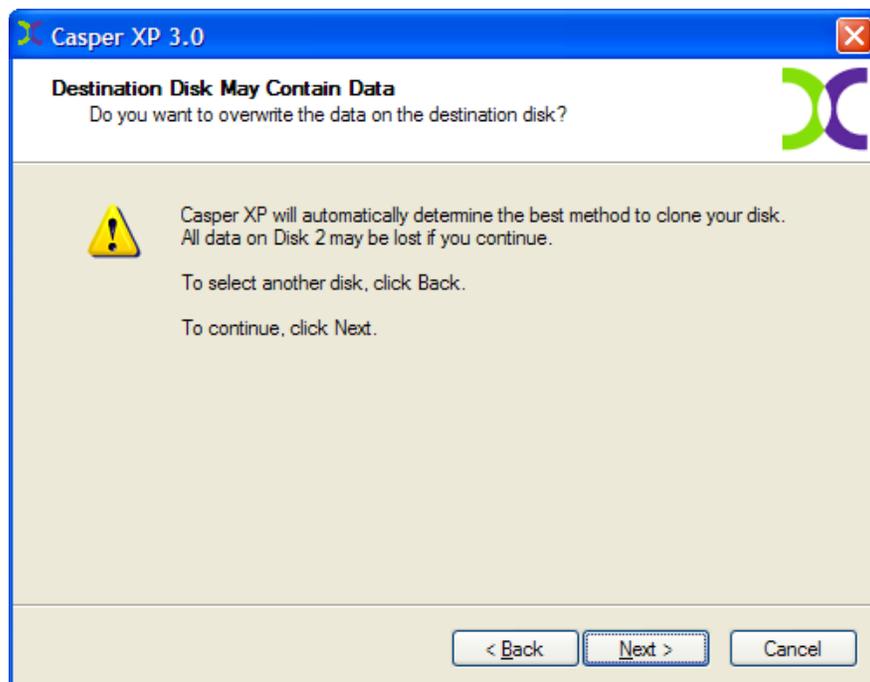
5. Select the hard disk to backup (e.g. the hard disk on which Windows is installed) as the disk to copy, and click **Next**.



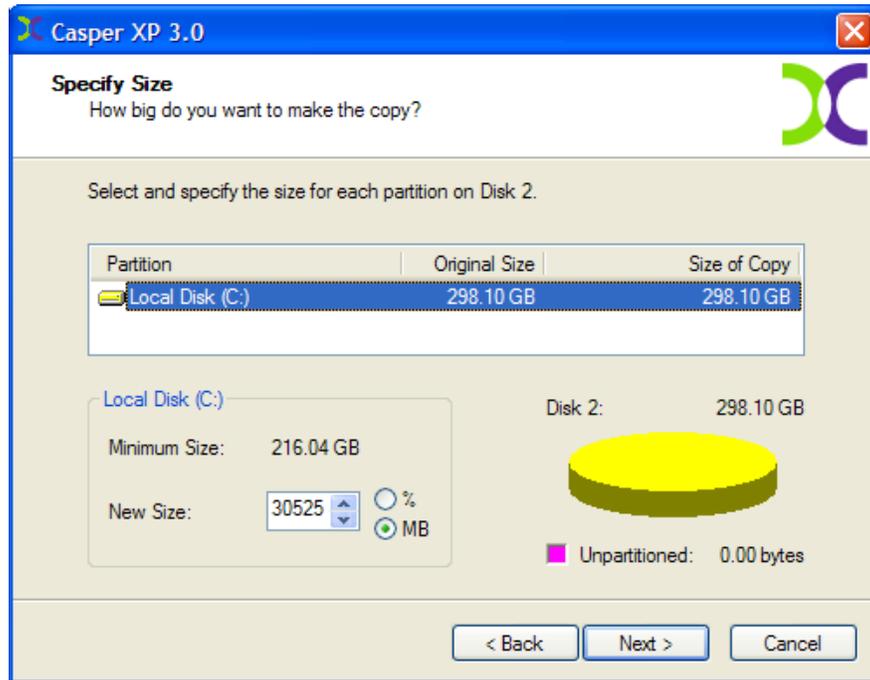
6. Select the backup hard disk as the destination, and click **Next**.



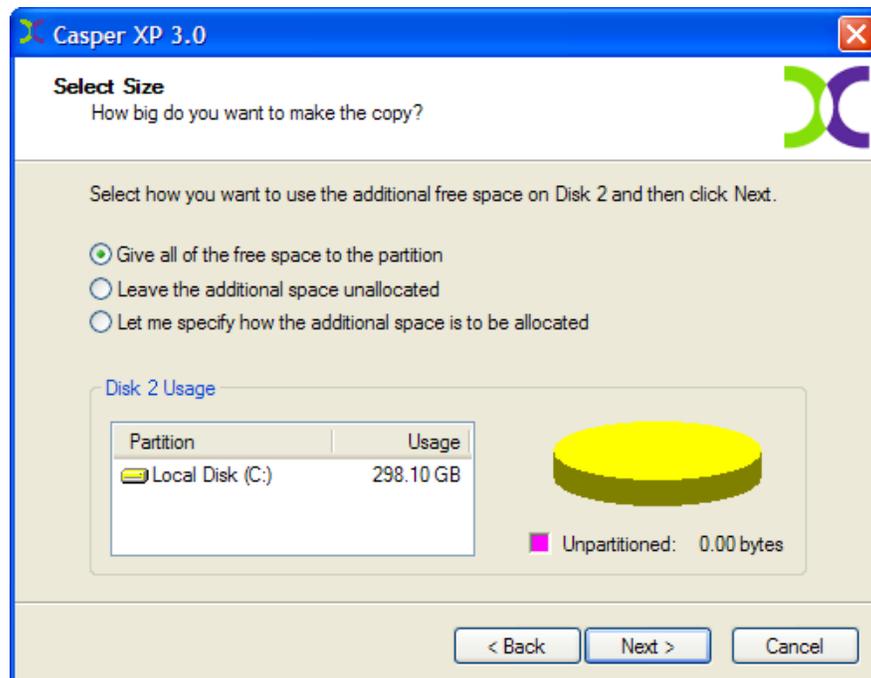
7. If the selected destination hard disk defines a partition or contains data, Casper XP will warn you that the contents will be overwritten. Confirm you have selected the correct hard disk to receive the backup, and click **Next** to proceed.



8. When prompted to specify how the space on the backup hard disk is to be used, retain the default selection and click **Next**. If the destination hard disk is the same size or smaller than the source hard disk, Casper XP will ask you to manually configure how the space is to be used.

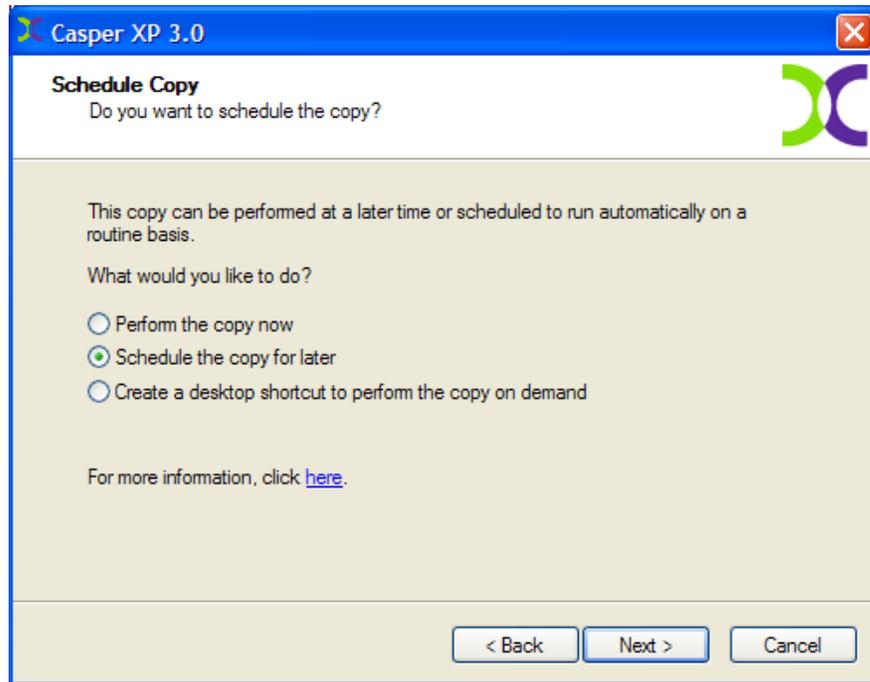


When the destination hard disk is larger than the source, the default option will be *Give all of the free space to the partition*, or *Proportionally distribute the free space to all partitions* when there is more than one partition defined on the source disk.

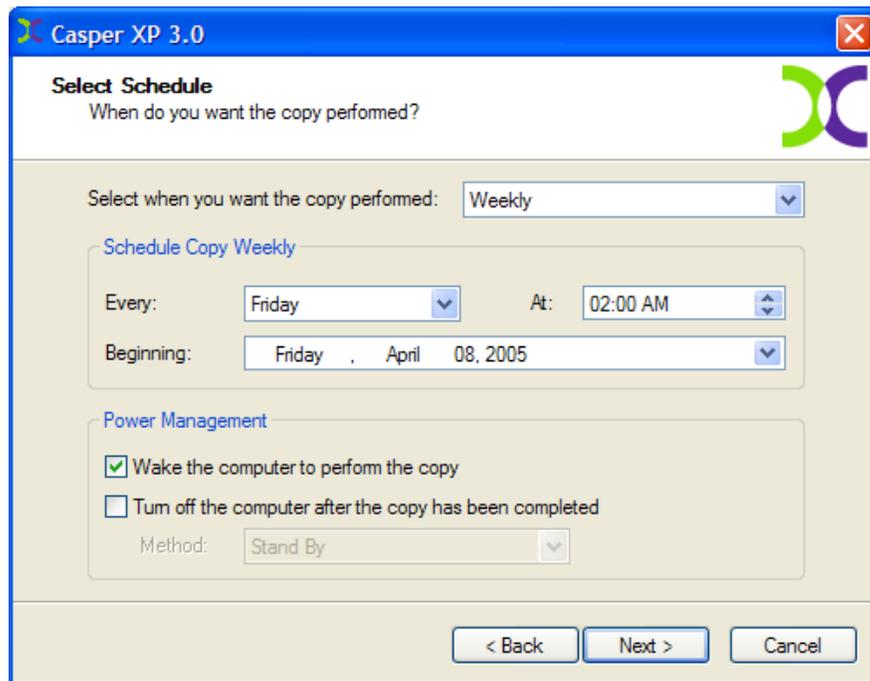


Simply clicking **Next** to accept the default selection or value is generally best. For additional help with making a selection, press **F1**.

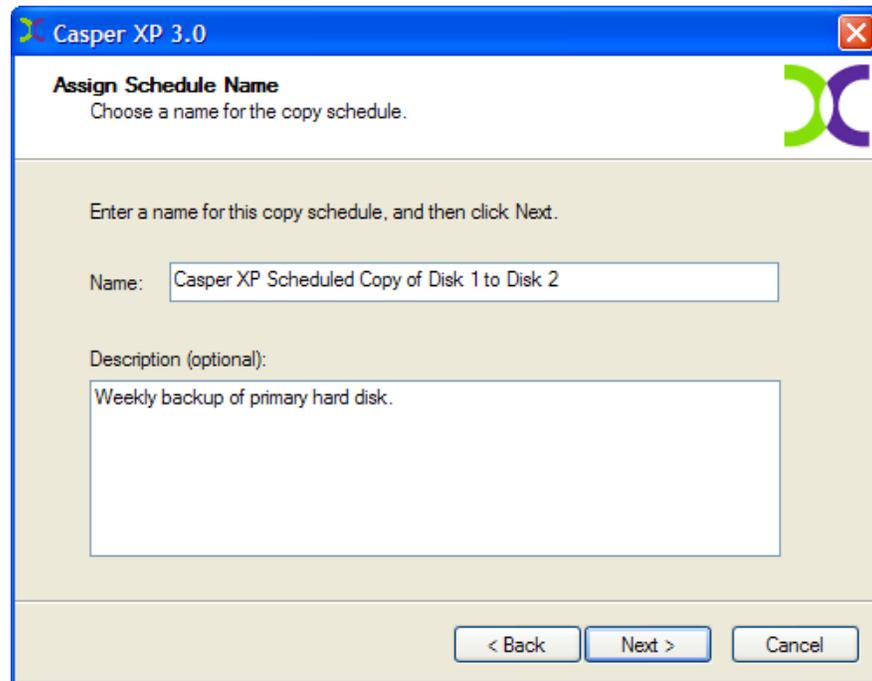
9. Select **Schedule the copy for later** when prompted by the wizard, and then click **Next**.



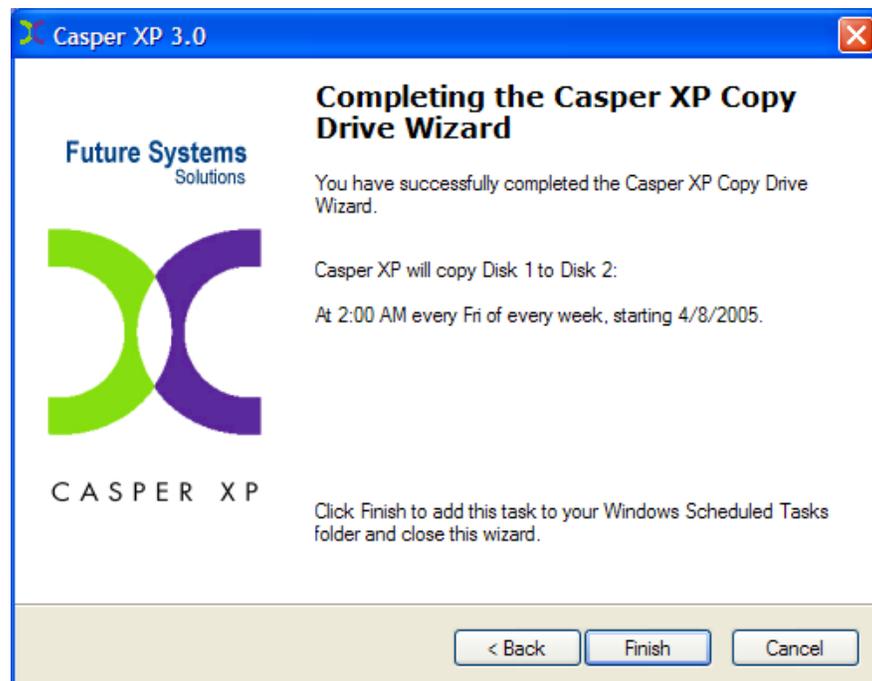
10. Select the schedule you would like Casper XP to follow to maintain the backup, and then click **Next**. For help with the schedule, press **F1**.



11. Enter a name for the schedule, or retain the name suggested by Casper XP, and click **Next**.

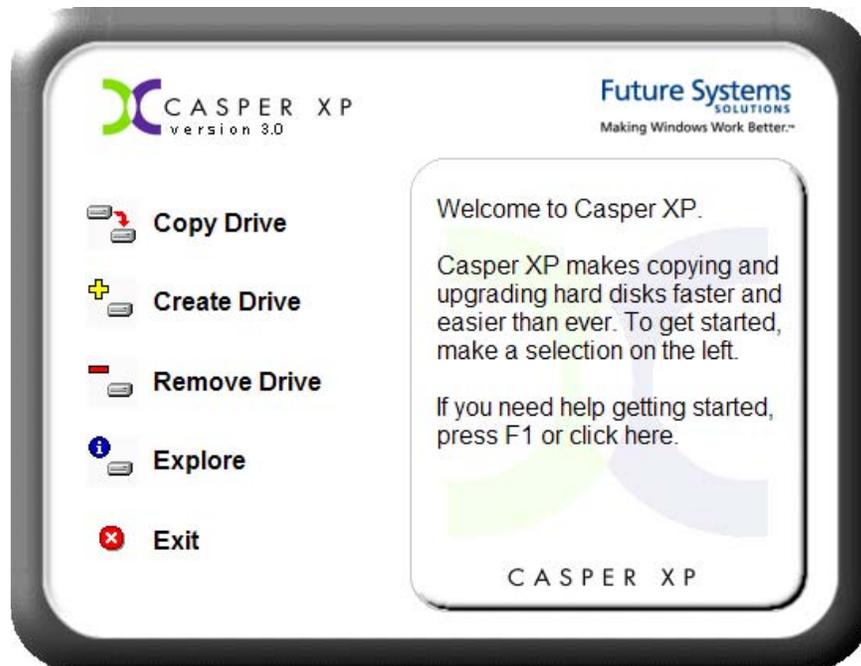


12. Click **Finish** to add the copy schedule to your Windows Scheduled Tasks.

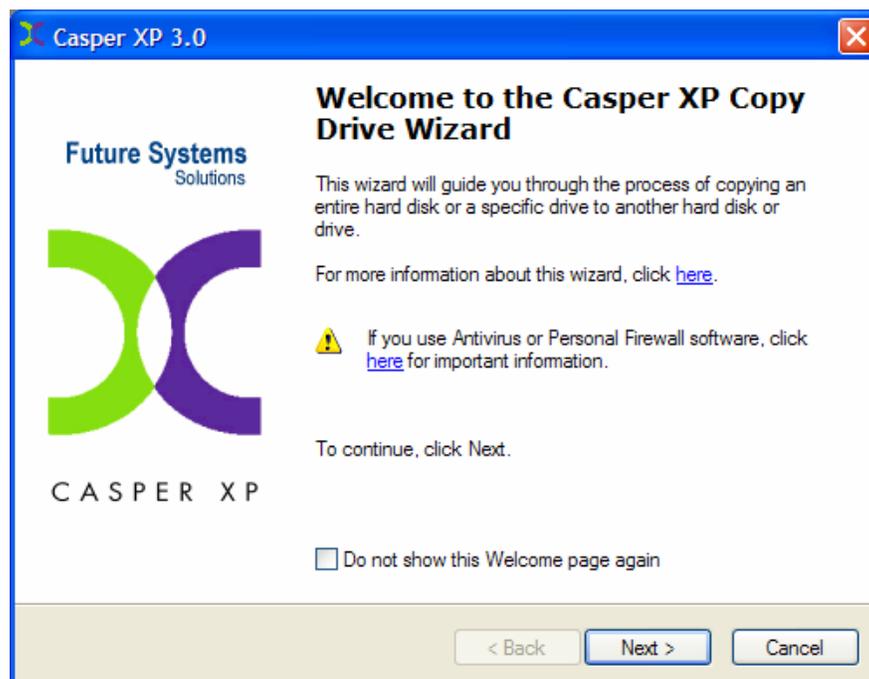


Example 4: Using 1-Click Cloning to Maintain a Backup Hard Disk

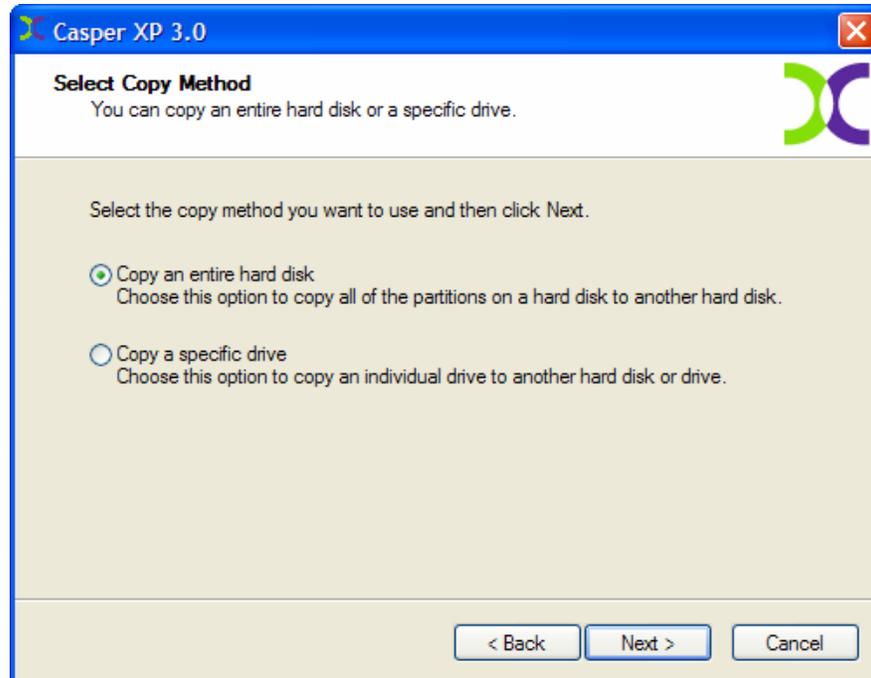
1. Start Casper XP
2. Select **Copy Drive**.



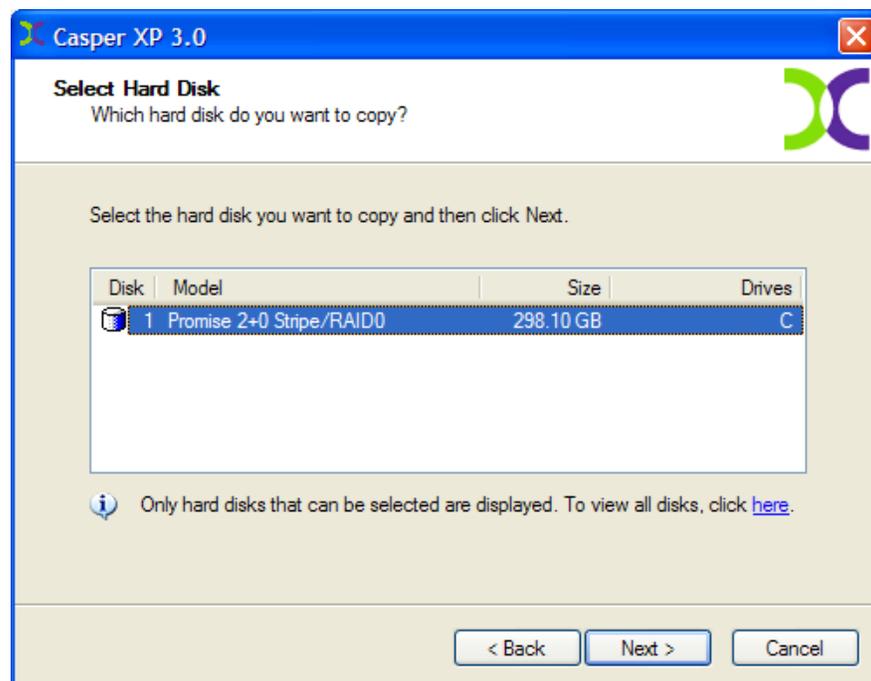
3. At the **Copy Drive Wizard** welcome screen, click **Next**.



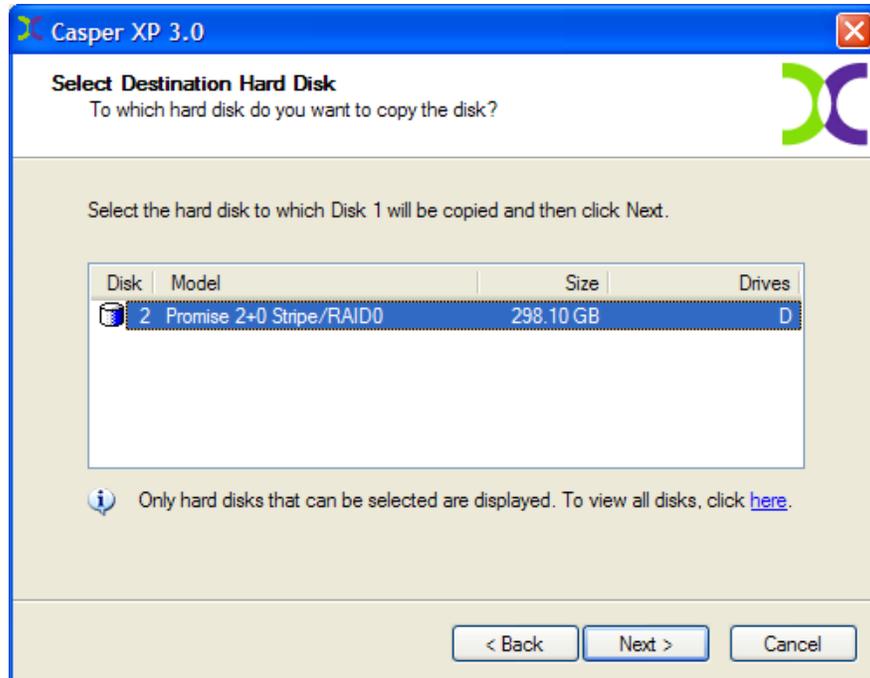
4. Select **Copy an entire hard disk** as the method to use, and click **Next**.



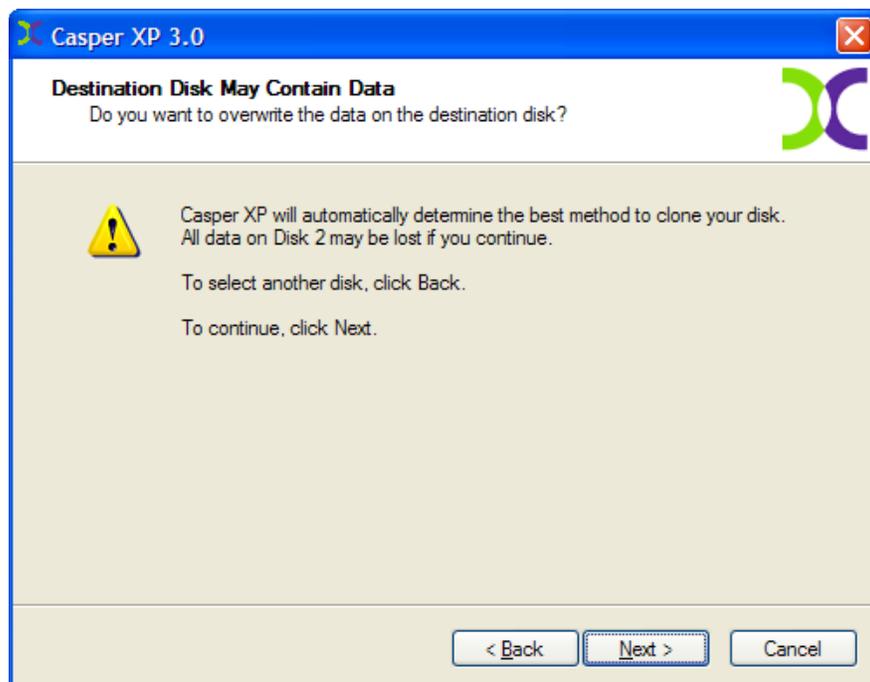
5. Select the hard disk to backup (e.g. the hard disk on which Windows is installed) as the disk to copy, and click **Next**.



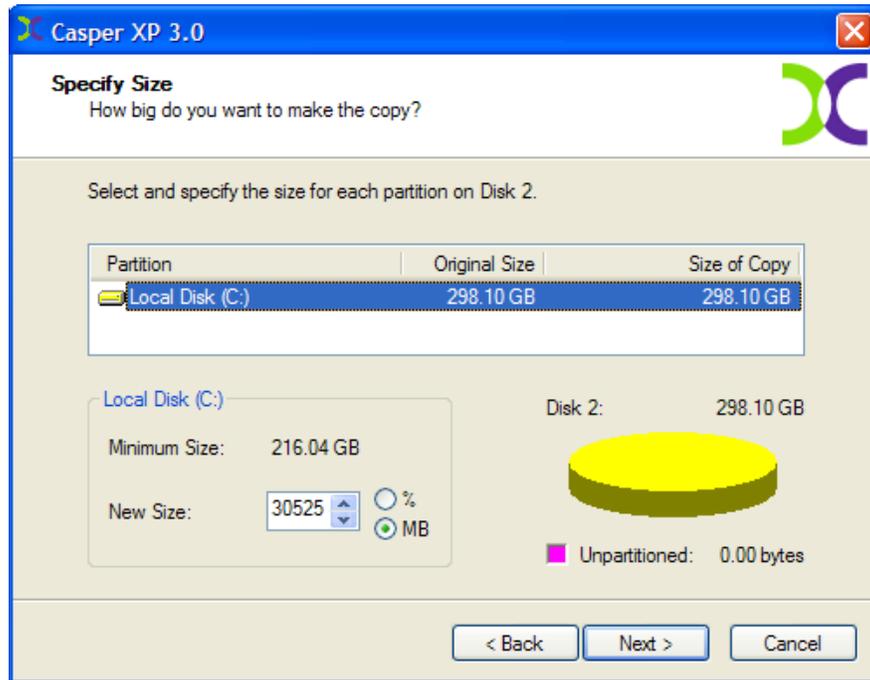
6. Select the backup hard disk as the destination, and click **Next**.



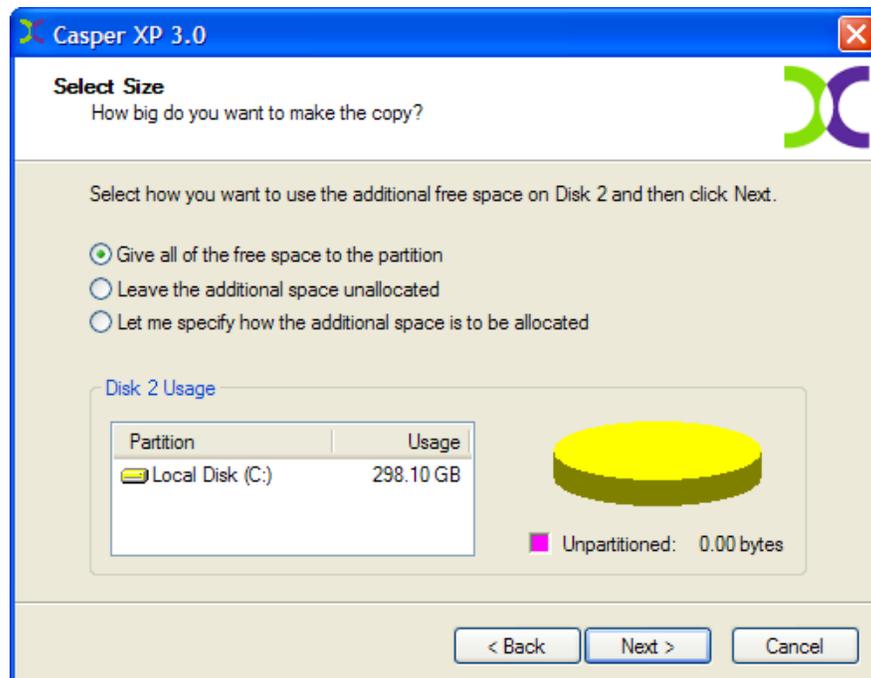
7. If the selected destination hard disk defines a partition or contains data, Casper XP will warn you that the contents will be overwritten. Confirm you have selected the correct hard disk to receive the backup, and click **Next** to proceed.



8. When prompted to specify how the space on the backup hard disk is to be used, retain the default selection and click **Next**. If the destination hard disk is the same size or smaller than the source hard disk, Casper XP will ask you to manually configure how the space is to be used.

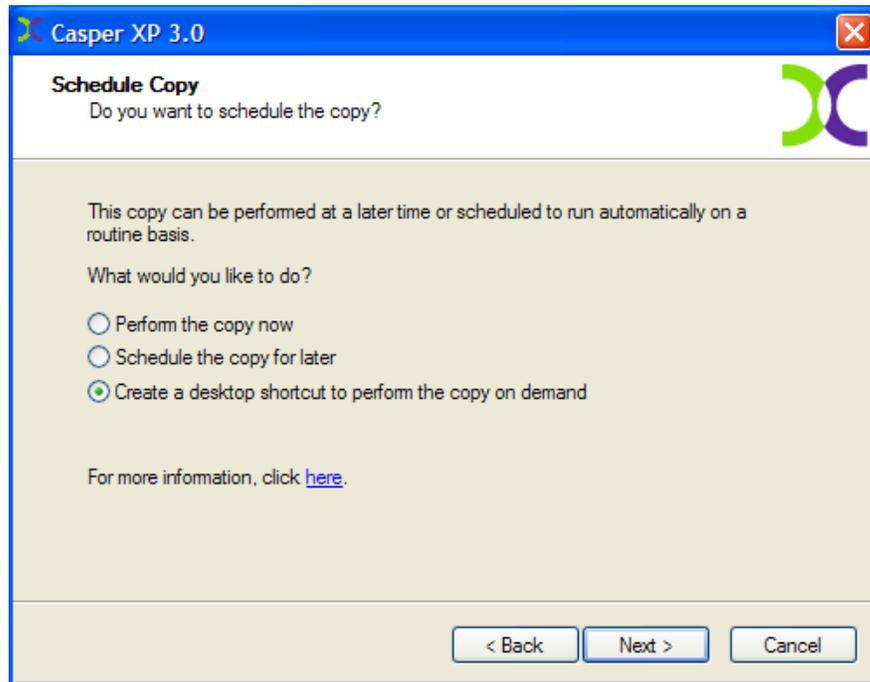


When the destination hard disk is larger than the source, the default option will be *Give all of the free space to the partition*, or *Proportionally distribute the free space to all partitions* when there is more than one partition defined on the source disk.

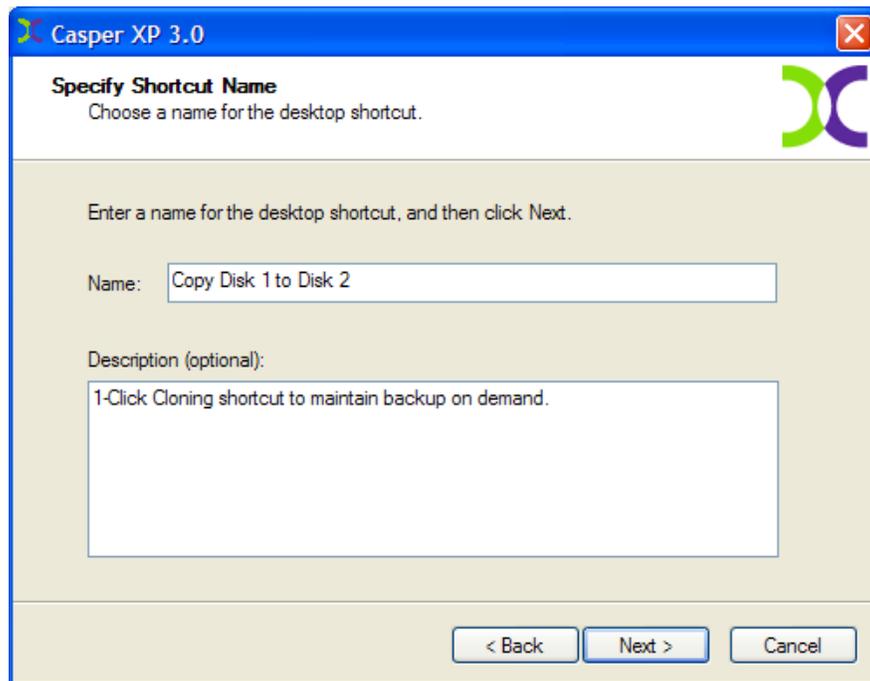


Simply clicking **Next** to accept the default selection or value is generally best. For additional help with making a selection, press **F1**.

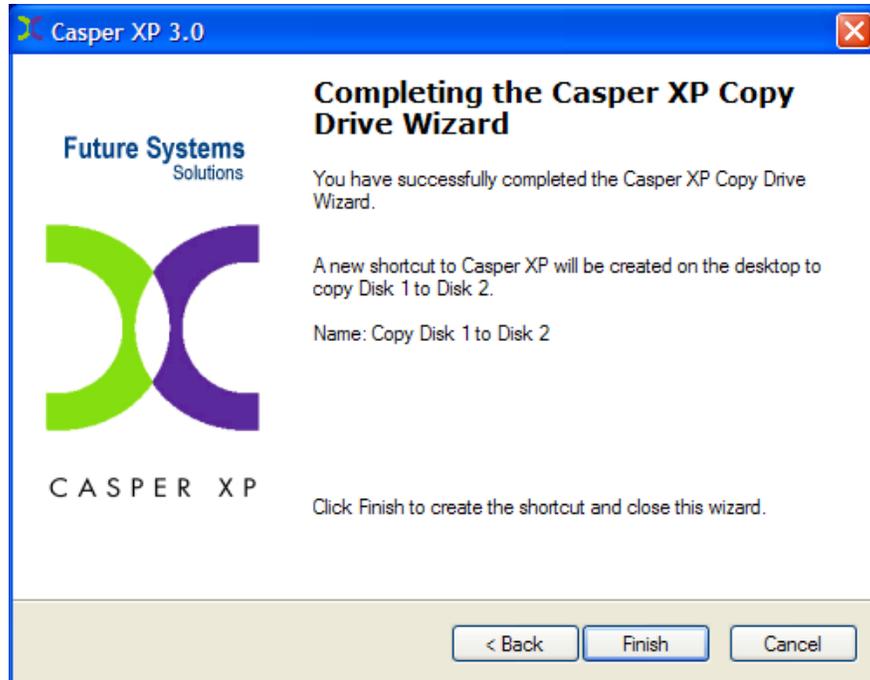
9. Select **Create a desktop shortcut to perform the copy on demand** when prompted by the wizard, and then click **Next**.



10. Enter a name for the shortcut, or retain the name suggested by Casper XP, and click **Next**.



11. Click **Finish** to create the shortcut on your Windows desktop.



Booting from a Backup Hard Disk

If you have used Casper XP to create a bootable backup of your computer's primary hard disk, and your primary hard disk fails or its contents become corrupted, you may boot your computer from the backup hard disk.

When the backup hard disk is installed as an internal hard disk, or installed via a mobile rack, booting from the backup hard disk is generally just a matter of changing the computer's BIOS boot priority setting to designate the backup hard disk as the boot device. If the computer's BIOS does not offer an option to designate a specific hard disk as the boot device, or if the original hard disk fails completely, the backup hard disk is reconfigured to replace the original hard disk by changing the hard disk jumpers and cable connection as required to make the backup hard disk the master on the primary IDE or SATA controller.

For a backup hard disk installed in a secondary media bay of a notebook, or installed in an external USB, Firewire, or PCMCIA enclosure, the backup hard disk is removed from its enclosure and exchanged with the original, internally mounted hard disk.

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

Using Drive2Drive for Windows 95, 98, and ME

Casper XP will not run under Windows 95, 98, or ME. For back-level support of these Windows platforms, Casper XP includes Drive2Drive.

With the exception of integrated scheduling, Drive2Drive provides the same basic functionality as Casper XP. For specific help with Drive2Drive, please consult the online help and documentation accompanying Drive2Drive.

Installing Drive2Drive

1. Download the **D2DSETUP.EXE** setup program.
If you have a Casper XP Setup CD, insert the CD and browse to the **Setup** folder.
2. Double-click **D2DSETUP** to launch the Drive2Drive Setup.
The software license agreement will appear. In order to proceed with the installation, you must agree to the terms of the license that is displayed.
3. Read the software license agreement, and then click **I Agree**.
4. At the welcome dialog, click **Next**.
The **Read Me** file appears.
5. Click **Next**.
The **Registration Information** dialog appears.
6. Enter your name and company name, and then click **Next**.
The **Choose Destination Location** dialog appears.
7. Choose the destination folder for the Drive2Drive program files and click **Next**.
The **Select Program Manager Group** dialog appears.
8. Select the name for the folder to display on the **Start > Programs** menu and click **Next**.
The **Start Copying Files** dialog appears.
9. Click **Next**.
The Drive2Drive files are added to your system and the **Registration Wizard** appears.
10. Enter the requested information to complete the registration, and then click **Next**.
The **Installation Complete** dialog appears.
11. Click **Finish** to finalize the installation process.

Running Drive2Drive

1. Click **Start**
2. Point to the **Programs** menu.
3. Point to the **Drive2Drive** menu.
4. Click **Drive2Drive**.

NOTE: If your system is configured to dual boot between Windows XP/2000 and a version of Windows 95, 98, or ME, you must use Casper XP to clone the hard disk. While Casper XP may be used to clone a Windows 95, 98, or ME system installation from within Windows XP or Windows 2000, Drive2Drive cannot be used to clone a Windows XP or Windows 2000 installation while running within Windows 95, 98, or ME.
