

CASPER™ USER GUIDE VERSION 7.0



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Casper[™] 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 offers you these unique advantages:

- Fast, Full System Backups. Casper always creates a complete backup of your Windows system drive. In addition, Casper's exclusive SmartClone[™] technology enables Casper to maintain a complete backup in the same amount of time required by most traditional backup programs to perform a partial or incremental backup.
- **Rapid Recovery**. In the event of a hard disk failure, your backup can be used as an immediate and permanent replacement for the failed hard disk. No special rescue disks or arduous data restoration processes are required to facilitate recovery.
- **Convenience**. Casper enables complete system backups to be performed at any time without leaving Windows, so there is never a need to restart your computer or stop work to create a backup. In addition, features such as integrated scheduling and exclusive SmartSense technology permit your backup to be performed completely unattended in the background or automatically whenever you attach your portable backup drive.

NOTE: This User Guide is intended to provide you with an overview of the basic operations of Casper. For additional assistance, please refer to the 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 Help

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

Additional support for Casper is available on the Future Systems Solutions Web site at <u>http://support.fssdev.com</u>.

The Casper 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.

Running the Casper Setup Program

1. Start the Casper Setup program.

The Welcome to Casper 7.0 Setup Wizard dialog will appear.

2. At the Welcome to Casper 7.0 Setup Wizard dialog, click Next.

The **End-User License Agreement** will appear. In order to proceed with the installation of Casper, you must agree to the terms of the license that is displayed.

3. Read the End-User License Agreement, select I accept the terms in the License Agreement, and then click Next.

The Select Installation Folder dialog will appear.

 $\mbox{4.} \ \ \mbox{Choose the installation folder for the Casper program files and click \mbox{Next}. } \label{eq:linear}$

The Configure Shortcuts dialog will appear.

- Select additional shortcut locations for the Casper program and click Next. The Ready to Install dialog will appear.
- 6. Click Install.

The Casper files are added to your system and the **Completing the Casper 7.0 Setup Wizard** dialog will appear.

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

Casper makes it easy to upgrade or maintain a backup of your Windows system hard disk, as well as other hard disks used on your computer.

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

Casper SmartSense[™] technology will begin the process of upgrading or creating a backup of your Windows system hard disk automatically when you attach a new hard disk to your computer. If the new disk is installed internally, or if Casper SmartSense is unable to detect the new disk, you can manually launch Casper SmartStart[™] to begin the process. For more information about using Casper SmartStart to upgrade or maintain a backup of your Windows system disk, please refer to the **Casper SmartStart Guide**.

To upgrade or maintain a backup for another hard disk on your computer, or customize the upgrade or backup process of your Windows system hard disk, Casper's Copy Drive wizard will guide you.

Starting Casper

- 1. Click the Start button.
- 2. Click All Programs.
- 3. Point to the Casper 7.0 menu.
- 4. Click Casper 7.0.

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 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 1: Upgrading a Hard Disk

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

1. Select Copy Drive.



2. Select Copy an entire hard disk.



3. 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**.

0	🎾 Caspe	r 7.0 - Copy Drive		
	Casper wi	hard disk would you like to copy? Il create a copy of the entire hard disk, includi n the disk. The copy can be used as a complet		
	Disk	Description	Size	Drives
		ST3250823AS	232.88 GB	с
	() On	ly hard disks that can be selected are displayed	d. <u>View all disks</u> .	
				Next Cancel

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

😋 箕 Caspi	er 7.0 - Copy Drive		
Casper w	the destination hard disk ill copy Disk 2 to the hard disk. Any existing o the layout and content of any partitions def		isk will be lost,
Disk	Description	Size	Drives
	2 WDC WD5000AAKS-22TMA0	465.76 GB	
			Next Cancel

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

🚱 箕 Casper 7.0 - Copy Drive			
How would you like to u When copying the partition from increase the amount of free space Give all of the space to the part Leave the additional space un Let me specify how the addit	n Disk 1, Casper can give the ce available on the partition fr artition (recommended) nallocated	additional space to the partition or new files and folders.	n. This will
Partition	Disk 2 usage	Disk 2	465.76 GB
🖨 Local Disk (C:)	465.76 GB		
		Unallocated space:	0.00 bytes
		Next	Cancel

When the destination hard disk is larger than the source, the default option will be *Give all of the space to the partition*, or *Proportionally distribute the 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**.

6. Click **Perform the copy now** to begin the copy.



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



- 8. Shutdown and power-off the computer.
- 9. 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**.

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 mobile drive rack 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 second (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 manually create a backup by cloning one hard disk to another. The second example, **Updating a Backup**, shows how to manually update a backup. The third example, **Scheduling a Routine Backup**, illustrates how to create a copy schedule to maintain the backup automatically. The fourth example, **Using Casper SmartSense to Maintain an External Backup**, shows how to configure Casper to perform a backup automatically whenever you attach your external backup drive. The fifth example, **Using 1-Click Cloning to Maintain a Backup**, shows how to create a 1-Click Cloning desktop shortcut to maintain a backup on demand.

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

Example 2: Creating a Backup

Assuming the backup hard disk is currently installed or attached to the system, the following procedure illustrates how to clone the Windows system hard disk to the backup hard disk on either a desktop or notebook system.

1. Select Copy Drive.



2. Select Copy an entire hard disk.



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

0	🎾 Caspe	r 7.0 - Copy Drive		
	Casper wi	hard disk would you like to copy? Il create a copy of the entire hard disk, includi n the disk. The copy can be used as a complet		
	Disk	Description	Size	Drives
		WDC WD5000AAKS-00TMA0	465.76 GB	с
	(i) On	ly hard disks that can be selected are displaye	d. <u>View all disks</u> .	
				Next Cancel

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



5. If the selected destination hard disk defines a partition or contains data, Casper 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.

G 🎾 Casper	7.0 - Copy Drive	
Destinat	tion Disk May Contain Data	
	Disk 2 contains data. If you proceed, all data on this disk may be lost, including the layout and content of all partitions defined on the hard disk.	
	Please confirm that Disk 2 does not contain any data you wish to retain. To select a different hard disk, click Back.	
	Next Cancel]

6. 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 will ask you to manually configure how the space is to be used.

🗲 🎾 Casper 7.0 - Copy Driv	re		
	ould like to use the space (for each partition on Disk 2.	on Disk 2	
Partition	Original size		Size of copy
🗐 Local Disk (C:)	465.76 GB		465.76 GB
Local Disk (C:) Minimum size: Maximum size: New size:	304.24 GB 465.76 GB 476938 → MB ▼	Disk 2: Unallocated space:	465.76 GB
		Next	Cancel

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

				- 0 X
0	🎾 Casper 7.0 - Copy Drive			
	How would you like to use When copying the partition from Di increase the amount of free space a Give all of the space to the partit Leave the additional space unallo Let me specify how the addition.	isk 1, Casper can give the vailable on the partition fr ion (recommended) ocated	additional space to the partitic or new files and folders.	on. This will
	Partition Docal Disk (C:)	Disk 2 usage 465.76 GB	Disk 2 Unallocated space:	465.76 GB
			Nex	Cancel

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

7. Click **Perform the copy now** to begin the copy.



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

Casper 7.0 - Copy Drive	
The copy completed successfully	
Disk 1 was copied to Disk 2.	
Overall transfer rate: 3286 MB per minute Elapsed time: 58 minute(s)	
An activity report providing additional details has been saved to the Casper History. <u>View this</u> now.	<u>s report</u>
Save the settings for this copy as:	
Copy Disk 1 to Disk 2	
	Close

Example 3: Updating a Backup

You can manually update a backup by repeating the procedure used to create the backup. When the settings for the copy have been saved as shown in the final step of the preceding example, you can use Casper's SmartStart functionality to jumpstart the process. Assuming the backup hard disk is currently installed or attached to the system, the following two procedures illustrate how a prior copy may be quickly repeated.

Repeating a Copy via Perform this copy again

1. Select Copy Drive.



2. Select the previous copy to be repeated from the list provided and click **Perform this copy again**.



3. Click **Perform the copy now** to begin the copy.



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



Repeating a Copy via the Casper Taskbar Icon (Windows 7 only)

- 1. Right-click the Casper icon appearing on the Windows 7 taskbar to display the icon's taskbar menu.
- 2. Click the previous copy to be repeated from the Recent list.



3. Click **Begin copy** to begin the copy.

🕝 🧊 Casper 7.0 - Copy Drive			
Casper is ready to copy the h	ard disk		
Casper is now ready to copy Disk 1 to I	Disk 2.		
Votify me when copy complete	:d:	Always	•
Additional notification options			
Send a SmartAlert			
Email address:			▼ ► New
Copy description:	System Disk	Backup	
Turn off computer when finish	ed:	Stand by	¥
			Begin copy Cancel

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



Example 4: Automating a Routine Backup

You can fully automate the process of creating and maintaining a backup replacement hard disk for your computer by scheduling Casper to run on a routine basis. Assuming the backup hard disk is currently installed or attached to the system, the following procedure shows how to schedule a copy to be performed on a routine basis.

1. Select Copy Drive.



2. Select Copy an entire hard disk.



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

0	🎾 Caspe	r 7.0 - Copy Drive		
	Casper wi	hard disk would you like to copy? Il create a copy of the entire hard disk, includi n the disk. The copy can be used as a complet		
	Disk	Description	Size	Drives
		WDC WD5000AAKS-00TMA0	465.76 GB	с
	(i) On	ly hard disks that can be selected are displaye	d. <u>View all disks</u> .	
				Next Cancel

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



5. If the selected destination hard disk defines a partition or contains data, Casper 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.

	- 0 X
Casper	7.0 - Copy Drive
Destinat	tion Disk May Contain Data
	Disk 2 contains data. If you proceed, all data on this disk may be lost, including the layout and content of all partitions defined on the hard disk.
	Please confirm that Disk 2 does not contain any data you wish to retain. To select a different hard disk, click Back.
	Next Cancel

6. 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 will ask you to manually configure how the space is to be used.

🗲 🎾 Casper 7.0 - Copy Driv	re		
	ould like to use the space (for each partition on Disk 2.	on Disk 2	
Partition	Original size		Size of copy
🗐 Local Disk (C:)	465.76 GB		465.76 GB
Local Disk (C:) Minimum size: Maximum size: New size:	304.24 GB 465.76 GB 476938 → WB ▼	Disk 2: Unallocated space:	465.76 GB
		Next	Cancel

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

				- 0 X
0	🎾 Casper 7.0 - Copy Drive			
	How would you like to use When copying the partition from Di increase the amount of free space a Give all of the space to the partit Leave the additional space unallo Let me specify how the addition.	isk 1, Casper can give the vailable on the partition fr ion (recommended) ocated	additional space to the partitic or new files and folders.	on. This will
	Partition Docal Disk (C:)	Disk 2 usage 465.76 GB	Disk 2 Unallocated space:	465.76 GB
			Nex	Cancel

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

7. Click Schedule the copy for later or routine basis.



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

🌀 耳 Casper 7.0 - Copy	Drive				X
How often would	d you like the c	opy perform	ed?		
Select how often you	want the copy perf	ormed:	Weekly	y 👻	
Weekly Copy Sched	ule				
Every:	Friday	•	At:	02:00 AM	
Beginning:	Friday , Ja	nuary 07, 2011			
Power Managemen	t omputer to perform	the copy			
				Next Can	cel

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

🌀 🎾 Casper 7.0 - Copy Drive	
Select Completion Options	
Votify me when copy completed:	Always
Additional notification options	
Send a SmartAlert	
Email address:	▼ ► New
Copy description: Weekly	System Backup
Turn off computer: Stand b	y 👻
Turn off computer even if user acti	vity detected
Help me decide	
	Next Cancel

10. 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.

- Copy Drive
ld you like to name the schedule?
be used by the Task Scheduler to uniquely identify the copy schedule. A description can ntifying the purpose of the copy schedule. Example: "Weekly computer backup."
lisk Backup
ptional):
Create schedule Cancel
ptional);

11. Click **Close** to return to the Casper console.

Casper 7.0 - Copy Drive	
You have successfully scheduled the copy of Disk 1 to Disk 2	
Casper is scheduled to copy Disk 1 to Disk 2:	
At 2:00 AM every Friday of every week, starting 11/1/2009.	
To confirm that the schedule is working correctly, you can perform the scheduled copy now.	
Begin scheduled copy now	
	Close

Example 5: Automating an External Backup

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

Configuring a SmartSense Backup

Assuming the external backup drive is currently attached to the system, the following procedure shows how to register the drive with the Casper SmartSense Service so that the backup will be started automatically whenever you attach your external backup drive.

- Copy Drive
 Copy Drive

 Image: Create Drive
 Select Copy Drive when you want to upgrade a hard disk, create and maintain a backup hard disk, or restore from a backup hard disk.

 Image: Create Drive
 Remove Drive
- 1. Select Copy Drive.

Explore

Exit

2. Select Copy an entire hard disk.



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

Which Casper w	er 7.0 - Copy Drive hard disk would you like to copy vill create a copy of the entire hard disk, inc on the disk. The copy can be used as a con	luding the layout and content of	
Disk	Description	Size	Drives
	1 Hitachi HDS722020ALA330	1.82 TB	с
	nly hard disks that can be selected are disp	layed. <u>View all disks</u> .	
 O 			

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

🕒 箕 Casp	er 7.0 - Copy Drive		
Casper v	the destination hard disk vill copy Disk 1 to the hard disk. Any existin g the layout and content of any partitions		sk will be lost,
Disk	Description	Size	Drives
	3 EXT USB 2.0 ST320005 42AS	1.82 TB	E
0 0 0	nly hard disks that can be selected are disp	layed. <u>View all disks</u> .	
		(Next Cancel

5. When selecting an external hard disk as the destination, 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.

Casper 7.0 - Copy Drive	
Would you like to assign a name to Disk 3?	
Disk 3 is an external disk whose unit number is subject to change depending on the order in are identified by the Windows operating system. To avoid confusion, Casper can refer to th a name of your choosing.	
Ves, use the following name when referring to Disk 3	
Name: My Portable Backup	
Nex	t Cancel

6. If the selected destination hard disk defines a partition or contains data, Casper 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.

Casper	7.0 - Conv Drive	
	7.0 - Copy Drive ion Disk May Contain Data My Portable Backup (Disk 3) contains data. If you proceed, all data on this disk including the layout and content of all partitions defined on the hard disk. Please confirm that My Portable Backup (Disk 3) does not contain any data you retain. To select a different hard disk, click Back.	•
	Nex	t Cancel

7. 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 will ask you to manually configure how the space is to be used.

Partition	Original size	Size of copy
Local Disk (C:)	1.82 TB	1.82 TB
Minimum size: Maximum size:	612.44 GB 1.82 TB	

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

			- • ×
😋 🎾 Casper 7.0 - Copy	Drive		
When copying the pa	like to use the additional sp ritition from Disk 1, Casper can give of free space available on the partitic	the additional space to the partitic	
Give all of the space	ce to the partition (recommended)		
Ceave the addition	al space unallocated		
Let me specify how	w the additional space is to be alloca	ted	
Partition	Disk 3 usage	Disk 3	1.82 TB
□ Local Disk (C:)	1.82 TB		
		Unallocated space:	0.00 bytes
		Next	Cancel

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

8. Click Perform the copy whenever I connect my portable backup drive.



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

G 🎗 Casper 7.0 - Copy Drive	
Select Completion Options	
Votify me when copy completed:	Always
Additional notification options	
Send a SmartAlert	
Email address:	▼ ► New
Copy description:	My System Disk Portable Backup
 ☐ Turn off computer: ☑ Prepare My Portable Backup (Disk 	Stand by v (3) for safe removal
Help me decide	
	Next Cancel

 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.

😋 🎾 Casper 7.0 - Copy Drive	
How would you like to identify this copy?	
The name will be used by the Casper SmartSense Service to identify the copy. A description o with identifying the purpose of the copy. Example: "Secondary backup for offsite storage."	an assist
Name: My System Disk Portable Backup	
Description (optional):	
Save	Cancel

11. Click **Close** to return to the Casper console.



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.

Example 6: Performing a Routine Backup On-Demand

You can create a 1-Click Cloning desktop shortcut to perform a routine backup ondemand.

Creating a 1-Click Cloning Shortcut

Assuming the backup hard disk is currently installed or attached to the system, the following procedure shows how to create a 1-Click Cloning Shortcut to perform a copy on-demand.

1. Select Copy Drive.



2. Select Copy an entire hard disk.



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

@ x	Casper	7.0 - Copy Drive		
Ca	sper will	ard disk would you like to copy? create a copy of the entire hard disk, includi the disk. The copy can be used as a complet		
D	Disk	Description	Size	Drives
	1	WDC WD5000AAKS-00TMA0	465.76 GB	с
() Only	hard disks that can be selected are displayed	1. <u>View all disks</u> .	
				Next Cancel

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

🕝 🏌 c	ssper 7.0 - Copy Drive		
Select the destination hard disk Casper will copy Disk 2 to the hard disk. Any existing data on the destination hard disk will be lost, including the layout and content of any partitions defined on the hard disk.			
Disk	Description	Size	Drives
	2 WDC WD5000AAKS-22TMA0	465.76 GB	E
		(Next Cancel

5. If the selected destination hard disk defines a partition or contains data, Casper 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.

		x
🕝 郑 Casper	r 7.0 - Copy Drive	
Destinat	tion Disk May Contain Data	
	Disk 2 contains data. If you proceed, all data on this disk may be lost, including the layout and content of all partitions defined on the hard disk.	
	Please confirm that Disk 2 does not contain any data you wish to retain. To select a different hard disk, click Back.	
	Next Canc	el

6. 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 will ask you to manually configure how the space is to be used.

Coal Disk (C:) Local Disk (C:) Local Disk (C:) Minimum size: 465.76 GB Local Disk (C:) Local Disk (C:) Minimum size: 465.76 GB Maximum size: 465.76 GB				
Select and specify the size for each partition on Disk 2. Partition Original size Size of copy Image: Core of the size of copy 465.76 GB 465.76 GB Image: Core of the size of copy 465.76 GB 465.76 GB Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize Image: Core of the size of copy 100 minutesize 100 minutesize <	🌀 🎾 Casper 7.0 - Copy Drive			
Partition Original size Size of copy Local Disk (C:) 465.76 GB 465.76 GB Local Disk (C:) Disk 2: 465.76 GB Minimum size: 304.24 GB Disk 2: 465.76 GB Maximum size: 465.76 GB Disk 2: 465.76 GB New size: 476938 (C) MB (C) Disk 2:	Specify how you wo	uld like to use the space o	on Disk 2	
Local Disk (C:) 465.76 GB 465.76 GB Local Disk (C:) Minimum size: 304.24 GB Maximum size: 304.24 GB Maximum size: 465.76 GB New size: 476938 ★	Select and specify the size f	or each partition on Disk 2.		
Local Disk (C:) 465.76 GB 465.76 GB Local Disk (C:) Disk 2: 465.76 GB Minimum size: 304.24 GB Disk 2: 465.76 GB Maximum size: 465.76 GB Disk 2: 465.76 GB New size: 476938 x MB x Disk 2: 465.76 GB		-		
Local Disk (C:) Minimum size: 304.24 GB Maximum size: 465.76 GB New size: 476938 (*) MB (*)		-	5	
Minimum size: 304.24 GB Maximum size: 465.76 GB New size: 476938 x	🖃 Local Disk (C:)	465.76 GB		465.76 GB
New size: 476938 (MB V	Minimum size:		Disk 2:	465.76 GB
Unallocated space: 0.00 bytes				
Next				

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

				- • ×
0	🎾 Casper 7.0 - Copy Drive			
	How would you like to use When copying the partition from D increase the amount of free space Give all of the space to the parti Leave the additional space unal Let me specify how the addition	Jisk 1, Casper can give the available on the partition fo ition (recommended) located	additional space to the partition	on. This will
	Partition Docal Disk (C:)	Disk 2 usage 465.76 GB	Disk 2 Unallocated space:	465.76 GB
			Nex	t Cancel

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

7. Click Create a desktop shortcut to perform the copy on demand.



8. Enter a name for the shortcut, or retain the name suggested by Casper, and click **Create shortcut**.

G	🂢 Casper 7.0 - Copy Drive	
	Whether Identify the second the sheater #2	٦
	What would you like to name the shortcut?	
	The name will appear as the title of the shortcut on your desktop. A description can assist with identifying the purpose of the shortcut or provide additional instructions for its use. Example: "Use this shortcut to backup the computer."	
	Name:	
	Copy Disk1 to Disk2	
	Description (optional):	
	Create shortcut Cancel]

9. Click **Close** to return to the Casper console.



Performing a 1-Click Cloning Backup

After creating a 1-Click Cloning shortcut, you can use the Casper shortcut appearing on your desktop to begin the backup. Click **Begin copy** to start the backup.

🚱 🎉 Casper 7.0 - Copy Drive	
Casper is ready to copy the ha	rd disk
Casper is now ready to copy Disk 1 to Di	isk 2.
Votify me when copy completed	d: Always
Additional notification options	
Send a SmartAlert	
Email address:	▼ New
Copy description:	System Disk Backup
Turn off computer when finished	d: Stand by 💌
	Begin copy Cancel

Booting from a Backup Hard Disk

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

When the backup hard disk is installed as an internal hard disk, or attached externally as an eSATA or USB device, booting from the backup hard disk is accomplished by changing the computer's BIOS boot priority setting to designate the backup hard disk as the preferred boot device.

If the computer's BIOS does not offer an option to select the designated backup hard disk as the preferred boot device, or if the original hard disk fails completely, the backup hard disk must be reconfigured to replace the original hard disk. For an internally mounted backup hard disk, this is accomplished 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.

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 Casper Startup Disk to copy the external backup hard disk to the computer's internal hard disk. For more information about creating and using the Casper Startup Disk, please see the Casper Startup Disk Creator Guide.*

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**.