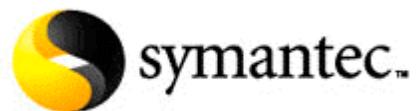


Norton Ghost™ 2003



Reviewer's Guide



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Other product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

Quick profile

Product:	Norton Ghost 2003	
Summary:	Symantec's Norton Ghost 2003 protects your data from computer disasters. Use it to create full system backups, recover files quickly and safely, or when you upgrade your computer.	
Ship date:	September 16, 2002	
Pricing:	Retail:	US\$ 69.95
	Retail 5 pack:	US\$ 279.95
	Retail 10 pack:	US\$ 559.95
Licensing:	<ul style="list-style-type: none">• Each Norton Ghost license applies to one hard disk. If an image file is copied onto a new hard disk, the license is transferred to the new hard disk.• A second computer, without a license, can be used to store a backup image file of the licensed computer.• Retail 5 and 10 user packs allow for several copies of Norton Ghost 2003 to be licensed within a small networked environment.	
Availability:	<ul style="list-style-type: none">• Norton Ghost is available through Symantec's worldwide network of VARS, integrators, and resellers.• For more information about purchasing Norton Ghost, call 1-800-745-6054, or visit www.symantec.com.	

System requirements:

To install Norton Ghost, the minimum software requirements are as follows:

- IBM computer or 100% compatible
- 486 processor
- VGA monitor (Super VGA recommended)
- 16 MB RAM (32 MB RAM recommended)
- Microsoft compatible mouse recommended
- Microsoft Windows 98/2000/Me/XP or Microsoft Windows NT4 SP6a
- Internet Explorer 5

Ghost.exe must be installed on a computer with the minimum requirements listed above. However, you can launch and run Ghost.exe on a computer with the following minimum requirements:

- IBM computer or 100% compatible
- 486 processor
- 16 MB RAM
- VGA monitor
- Microsoft compatible mouse recommended

To support CD and DVD writing:

- CD or DVD writer supported by Norton Ghost

In addition to saving a backup to a secondary partition or an internal hard disk, Norton Ghost can also save a backup to the following external media devices:

- CD-R/RW
- DVD+RW/-RW/+R/-R
- USB 1.1/2.0 hard drive and CD/DVD recordable devices
- FireWire (iEEE) 1394 hard drive and CD/DVD recordable devices
- Atapi tape (QIC157) devices
- SCSI tape

- A second computer using a peer-to-peer connection
- Mapped network drive
- Zip drive
- Jaz drive

To determine if your device is supported by Norton Ghost, check that your device is listed on the support Web site.

<http://www.ghost.com/>

The following file systems can be backed up, restored, and cloned:

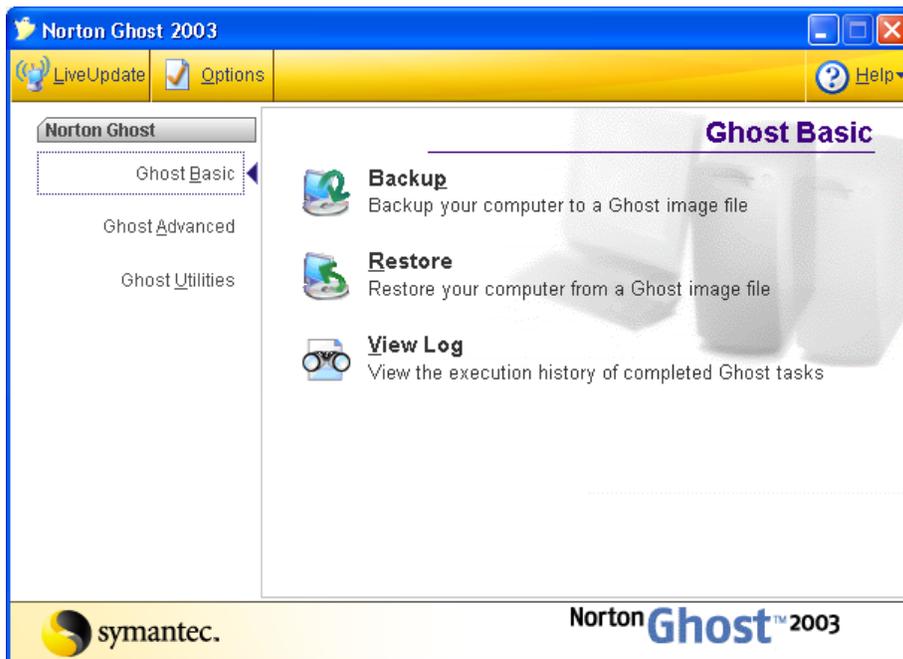
- All FAT
- All NTFS
- EXT2/3

Introducing Norton Ghost 2003

Norton Ghost provides you with protection against data loss. From the intuitive Windows interface you can create backup images of your hard disk or selected partitions without a boot disk. You can back up, restore, or clone directly between two computers using a network, USB, or parallel connection.

Norton Ghost is fast and robust. You can restore a computer from an image file that contains Windows XP Home and a full installation of Office XP in less than one minute.¹

Norton Ghost is based on the robust cloning technology of Symantec Ghost Enterprise.



Additional user assistance

When reviewing Norton Ghost 2003, the following should assist you in getting started with Norton Ghost:

- Getting Started card: Provides an introduction to cloning concepts, and to the use of Norton Ghost 2003 as a backup solution. Steps you through the backup and restore procedures.
- Tutorials: Demonstrate the most common Norton Ghost 2003 tasks.

¹ Tests were performed on P4 1.6 GHZ with 7,200 RPM drives.

New features

- Windows user interface: You can run Norton Ghost directly from Windows without having to restart your computer.
- Virtual Partition: This feature eliminates the need for a boot disk in most situations.
- Full Windows NTFS functionality: Norton Ghost recognizes NTFS drives. You can store a backup image file onto an NTFS drive, and restore from an image file located on an NTFS drive.
- Mapped network drives: A computer on a network can be mapped to a drive letter. This allows Norton Ghost to see the computer as a local drive, and to write and restore images from it.
- Support for USB 1.1, 2.0, DVD, and FireWire: Norton Ghost lets you take advantage of the latest high-performance storage devices.
- Expanded CD-R/RW support: This feature provides support for more CD-R/RW drives.
- Expanded Linux support: Norton Ghost can now back up, restore, or clone Ext3 file systems as well as Ext2 file systems.
- Large Hard Disk support: Norton Ghost supports backing up, restoring, and cloning IDE drives greater than 128 GB.
- Ghost Walker: Norton Ghost now includes the Ghost Walker utility for updating SIDs and computer names. This utility was previously available only in Symantec Ghost, the corporate version of Norton Ghost.
- XP certification: Norton Ghost meets Microsoft's standards for Windows XP certification.
- Getting Started card: Additional documentation is provided for novice users of Norton Ghost. The Getting Started card includes the basic concepts of cloning, and steps the first time user through installation, backup, and restore.

Other key features

- Backup flexibility: You can back up directly to a wide range of hard drives and removable media, including CD-R/RW drives, DVD devices, Iomega, Zip, and Jaz drives.
- Peer-to-peer communication: Norton Ghost includes fast peer-to-peer communications that use high-speed parallel, USB, or network IP connections.
- Operating system support: You can back up, restore, or clone computers installed with DOS, Windows OS/2, or Linux.
- File system support: You can back up, restore, or clone FAT, FAT32, NTFS, and Linux Ext2/3 file systems.
- Image file editing: Ghost Explorer lets you edit FAT and FAT32 image files.
- Restore individual files: Ghost Explorer lets you restore individual files from an image file.
- Disk and partition management: You can run GDisk from DOS or in a command shell from within Windows to manage partitions and disks.
- Tutorials: A set of tutorials is included in Norton Ghost that provides a demo of the most commonly used functions.

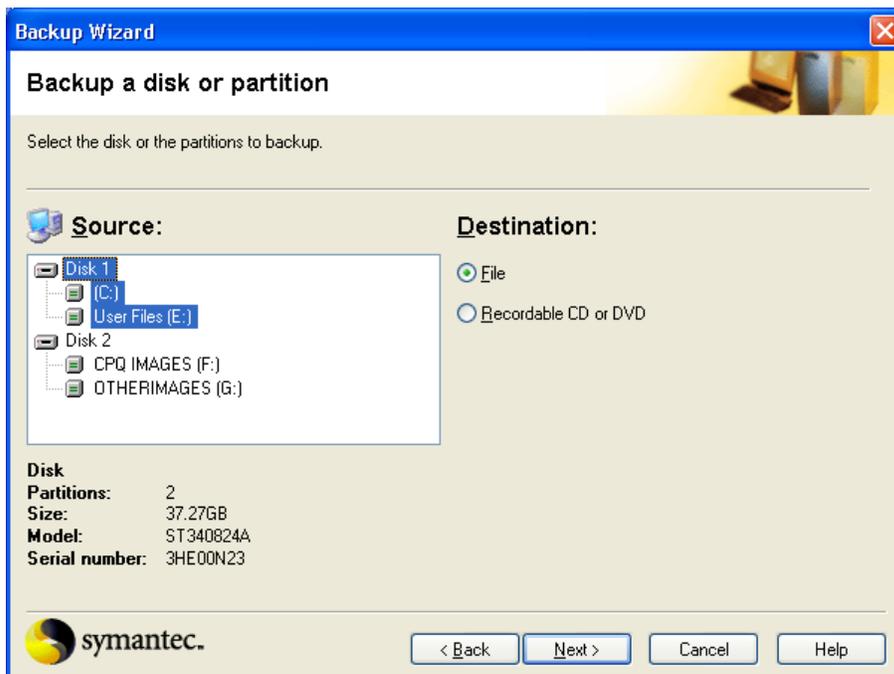
Components

Norton Ghost wizards

Norton Ghost includes Windows wizards that guide you through the basic tasks. These wizards include:

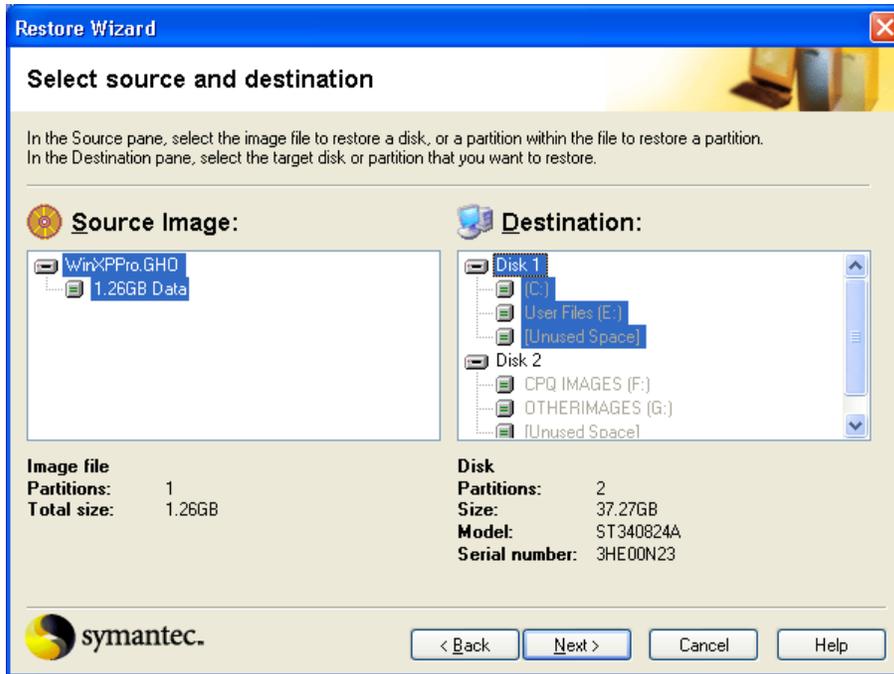
Backup Wizard

The Backup Wizard lets you select a hard disk or partition to back up to an image file.



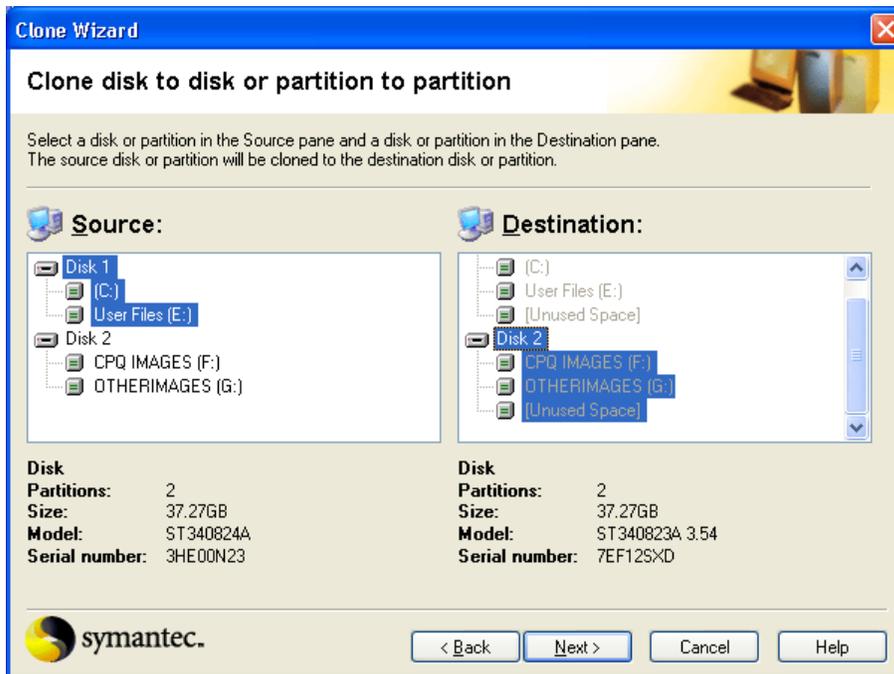
Restore Wizard

The Restore Wizard lets you restore a hard disk or partition from an image file.



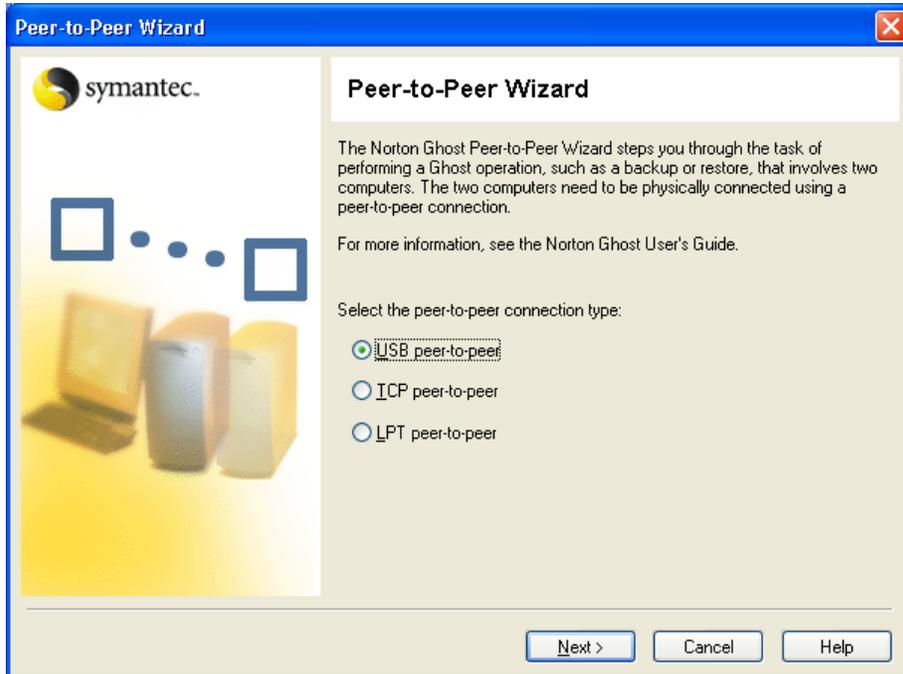
Clone Wizard

The Clone Wizard lets you clone a hard disk or partition directly from another hard disk or partition.



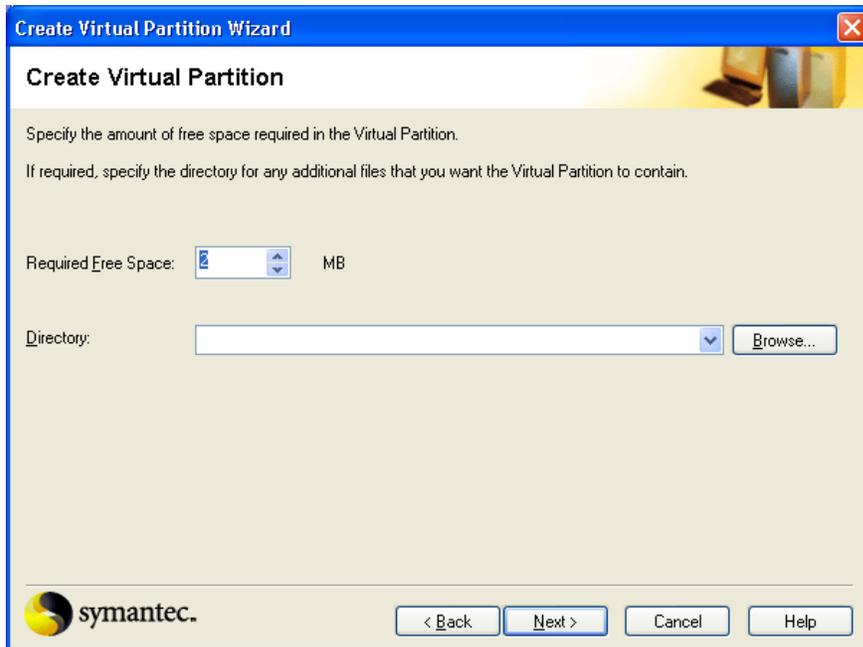
Peer-to-Peer Wizard

The Peer-to-Peer Wizard starts Ghost.exe in the Virtual Partition with peer-to-peer drivers loaded.



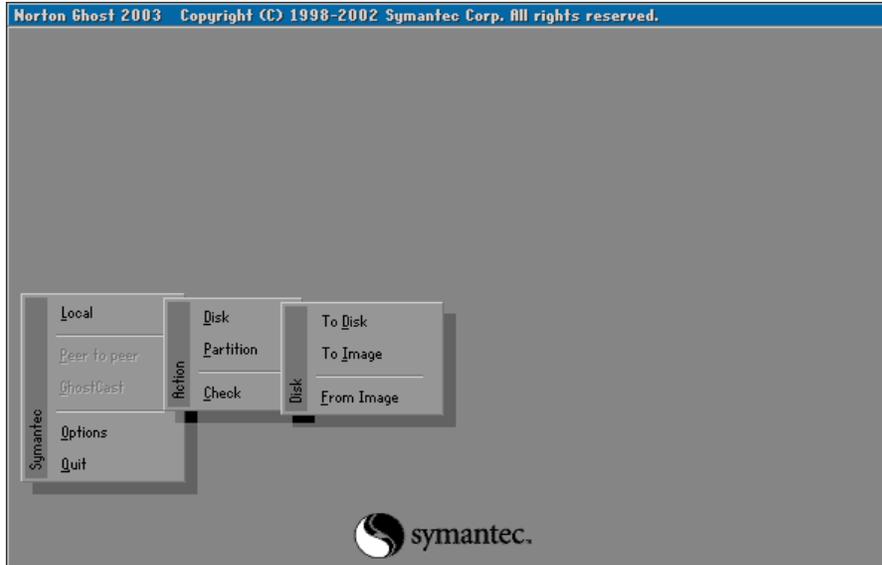
Create Virtual Partition Wizard

The Create Virtual Partition Wizard restarts your computer in the Virtual Partition with files from a selected directory. This is useful for running DOS applications.



Norton Ghost executable

Ghost.exe runs in DOS and lets you back up, restore, and clone. Because the executable is small with minimal conventional memory requirements, you can run it easily from a DOS boot disk or hard drive.



Ghost Boot Wizard

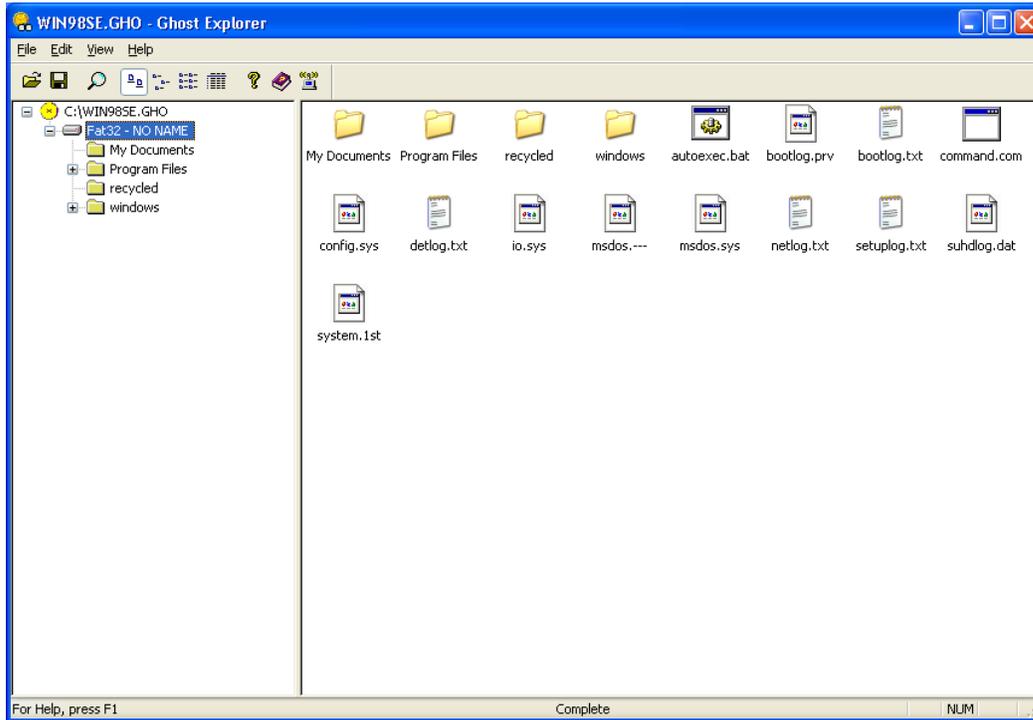
Use the Ghost Boot Wizard to create boot disks. Boot disks are used for backups, restores, and cloning when you cannot run the wizards in Windows. For example, a Ghost recovery disk is created from the Ghost Boot Wizard in case of an emergency restore.



Ghost Explorer

Ghost Explorer is a Windows application that lets you view directories and files in an image file, and then add, recover, and delete individual directories and files from an image file.

Note: You cannot update NTFS images but you can restore individual files.



GDisk

GDisk lets you create partitions, reinitialize Master Boot Records, and delete and wipe your disks in many different ways.

Two versions of GDisk are supplied with Norton Ghost:

- GDisk: Runs in DOS
- GDisk32: Runs from the command-line in a Windows operating system

GDisk is a complete replacement for the Fdisk and Format utilities that offers the following features:

- On-the-fly formatting
- Extensive partition reporting
- High security disk wiping
- The ability to hide a partition or make a hidden partition visible
- Boot.ini manipulation

Unlike Fdisk, which uses interactive menus and prompts, GDisk is command-line driven. This offers quicker configuration of a disk's partitions and the ability to define GDisk operations in a batch file.

Ghost Walker

Ghost Walker assigns a statistically unique security identifier (SID) and unique name to cloned Microsoft Windows NT/2000/XP workstations. The SID is an important part of the Windows NT/2000/XP security architecture as it provides a unique identifier when these computers are networked. If you are cloning more than one computer using the multi user pack, you can use Ghost Walker to configure each computer on the network with a unique identification, which is mandatory on a Microsoft network.

Contact information

Media Services

Symantec provides special support services to the media when evaluating Symantec Ghost on deadline. Please direct questions to:

Brian Modena

Public Relations Specialist

Symantec Corporation

310-449-4897

bmodena@symantec.com

Technical Support and Customer Service

Symantec is committed to excellent customer service and support worldwide.

Service and support information is available from the Help system of your Symantec product. Click the Service and Support topic in the Help index.

Technical support

Symantec offers two technical support options:

- Online Service and Support

Connect to the Symantec Service & Support Web site at <http://service.symantec.com>, select your user type, and then select your product and version. This gives you access to current hot topics, knowledge bases, file download pages, multimedia tutorials, contact options, and more.

- PriorityCare telephone support

PriorityCare fee-based telephone support services are available to all registered customers. You can access the PriorityCare number for your product through the Service & Support Web site. You'll be led through the online options first, and then to the telephone contact options available for your product and version.

Customer service

Access customer service options through the Service & Support Web site at <http://service.symantec.com>. From this site, you can receive assistance with non-technical questions and information on how to do the following:

- Subscribe to the Symantec Support Solution of your choice.
- Obtain product literature or trialware.
- Locate resellers and consultants in your area.
- Replace missing or defective CD-ROMS, disks, manuals, and so on.
- Update your product registration with address or name changes.
- Get order, return, or rebate status information.
- Access customer service FAQs.
- Post a question to a Customer Service representative.

For upgrade orders, visit the online upgrade center at:

<http://www.symantecstore.com>

Worldwide service and support

Technical Support and Customer Service solutions vary by country. For information on Symantec Support and International Partner locations, connect to <http://www.symantec.com/globalsites.html> and select the appropriate country or region.

About Symantec

Symantec, the world leader in Internet security technology, provides a broad range of content and network security software and appliance solutions to individuals, enterprises, and service providers. The company is a leading provider of client, gateway, and server security solutions for virus protection, firewall and virtual private network, vulnerability management, intrusion detection, Internet content, and email filtering, remote management technologies and security services to enterprises and service providers around the world. Symantec's Norton brand of consumer security products is a leader in worldwide retail sales and industry awards. Headquartered in Cupertino, California, Symantec has worldwide operations in 38 countries. For more information, please visit www.symantec.com.