



Symantec Ghost™ Solution Suite

The industry's most widely used enterprise imaging and deployment solution with ease-of-use for managing the entire PC lifecycle, including OS deployment, software distribution, PC migration and retirement

› Three leading technologies in one solution

Symantec Ghost Solution Suite contains three industry-leading applications in one suite: Symantec Ghost, the imaging capabilities of DeployCenter™ Library, and Symantec™ Client Migration. With the combination of Symantec Ghost and DeployCenter Library technologies, Symantec now offers the only solution on the market with both file-based and sector-based imaging technologies. Symantec's file-based imaging technology delivers optimum ease-of-use and flexibility for customizing and updating images, while its sector-based imaging provides the ultimate in accuracy by retaining Windows® optimizations when creating system images. And with Symantec Client Migration, administrators can utilize a next-generation user migration tool that provides unique features such as Web-based "self-service IT" and highly secure encrypted communication for mobile users—even over the Internet.

Today's IT professionals face ever-increasing challenges when it comes to managing and maintaining PCs in a distributed enterprise environment. Overseeing 24-hour production systems and being under pressure to reduce costs, improve service levels, and remove risks, system administrators look to PC management solutions that have the ease-of-use, integrated functionality, adaptability, and security they require. By streamlining the management of networked servers, desktops, and notebooks with the most advanced deployment and migration technology available, Symantec Ghost meets the needs of these IT experts.

› Easy-to-use, integrated PC management

Symantec Ghost Solution Suite is the industry's most widely used enterprise PC management solution for Windows operating system (OS) deployment, software distribution, migration, and PC retirement. The solution enables IT administrators to reduce the cost and time required to:

- Create standard system images for new workstations and servers.
- Deploy new Windows and Linux operating systems across an enterprise.
- Migrate users to new PCs or Windows operating systems while preserving user settings, preferences, application settings, and data.
- Deploy new or updated applications and distribute updates.
- Create detailed reports on hardware and software inventory.
- Retire PCs by securely disposing of confidential data.

› Key benefits of Symantec Ghost Solution Suite

Several key benefits make Symantec Ghost Solution Suite a powerful, versatile, and efficient PC and server management solution.

KEY POINTS

- › Hardware and software inventory data is gathered from the Symantec Ghost Console, enabling administrators to design provisioning tasks based on specific client attributes.
- › Client Staging Area dynamically created on managed PCs provides: the ability to launch and execute contents locally; store whole disk images, software "hot fixes," and user profiles; and preserve contents during a cloning or restore.
- › Symantec Client Migration empowers IT administrators to migrate Windows OS and application settings, and user data—quickly and securely.
- › Unique Web-based self-service tool for user migrations uses simplified implementation, maintenance, and user-based operation to reduce the cost and risk associated with client migration.
- › GDisk ensures that confidential data cannot be recovered from recycled, retired, or leased PCs via secure disk wiping to DoD requirements.
- › Upgrade to Symantec ON iCommand solution for enterprise-class scalability in highly distributed and heterogeneous environments (Windows, Linux, UNIX®, Pocket PC)—including mobile and remote users—while leveraging your existing investment in Symantec Ghost images and AutoInstall packages.

EFFICIENT DEPLOYMENT OF NEW SYSTEMS

Administrators can easily create an image of a PC or Windows server, utilizing either file- or sector-based imaging technology, and simultaneously deploy hundreds of PCs across the network in a matter of minutes. Symantec Ghost Solution Suite also provides image multicasting to minimize bandwidth usage and speed the deployment of new images. In addition, Symantec Ghost Solution Suite's hardware/software inventory functions from a centralized console, allowing you to create detailed reports through fully customizable filters and views and then manage a group of target computers based upon hardware and software attributes. For example, you can identify computers that have specific properties and use the selected computers as the target for a task. Finally, imaging and deployment can be done within the Microsoft® Windows® Preinstallation Environment (Windows PE). This accelerates and automates Windows deployments while reducing the cost, complexity, and time required to deploy the Windows XP operating system.

EASY MIGRATION OF SYSTEM AND APPLICATION SETTINGS AS WELL AS USER DATA

Symantec Client Migration is the secure software solution that allows IT administrators to quickly and cost-effectively migrate user data along with operating system and application settings. By automating many of the repetitive tasks associated with migration planning and deployment, Symantec Client Migration accelerates the migration process and reduces administrative overhead. Symantec Client Migration provides two options for the administrator: a user-driven migration, whereby end users can initiate and complete their own user migration via the use of a unique Web-based interface, and an administratively driven migration, where the administrator controls all aspects of a user migration. In both options, the migration is completely managed with full control over the file types and applications that are included and excluded. For example, the administrator can specify that he or she wants to capture all XLS and DOC files while excluding MP3 and AVI files.

FAST AND EASY DEPLOYMENT OF PATCHES, UPDATES, AND APPLICATIONS

By using the hardware and software inventory functionality of the Symantec Ghost Console, administrators can identify machines that have, or have not had, the latest hot fixes installed. These machines can then be targeted, and the hot fix can be deployed using the Symantec Ghost multicast file transfer abilities. This function allows the deployment of individual files to multiple machines simultaneously without incurring the dramatic hits on network bandwidth that traditional unicasting causes.

In addition, AutoInstall is included with Symantec Ghost Solution Suite. This feature allows administrators to create and customize application packages, which can then be deployed within the Symantec Ghost Console.

SECURE RETIREMENT AND DISPOSAL OF PCS

Symantec Ghost Solution Suite reduces the risk and liability associated with PC retirement and data disposal—and implements best practice strategies that meet the highest industry standards. In fact, the GDisk component provides a solution that meets the highest levels of secure data disposal for the U.S. Department of Defense (DOD 5220.22-M). This solution ensures that confidential data cannot be recovered from recycled, retired, or leased PCs.

> Top features of Symantec Ghost Solution Suite

The management of today's IT infrastructure has become increasingly complicated and expensive. To minimize complexity and downtime while increasing efficiency and availability, Symantec Ghost Solution Suite provides the following feature set to streamline PC deployment, migrations and retirement.

Ghost Console—A Windows application that facilitates the remote deployment of both OS and applications.

- A fully managed solution enabling you to ensure that the network is stable, secure, and consistent with operating systems and software.
- Configure and schedule tasks from the console, including rolling out software, upgrading operating systems, and executing commands remotely.
- Efficiently manage networked users by grouping them within the Console.
- Provides remote deployment of Symantec Ghost Client to any Windows operating system for the desktop.

Sector-based and file-based imaging—Creates file images of any FAT, NTFS, EXT2, and EXT3 file systems.

- File-based imaging is an imaging process that captures all of the files on a hard drive quickly and efficiently. With file-based imaging, any image can be explored and individual files can easily be extracted. Additionally, you can add, delete, or edit files within any FAT-based image.
- Sector-based imaging is an alternative process that captures only the sectors that have valid data, making it an extremely fast and efficient imaging technique. Further, any drive optimizations that have been done will be completely preserved.

Hardware and software inventory—Provides client machine details to administrators that allow them to more effectively manage their image and software deployment.

- Manage hardware and software inventory from the Symantec Ghost Console, so that you can query and filter views to sort all networked PCs that meet specified requirements.
- Create detailed reports from these customizable filters and views. You can then create “dynamic folders” to manage a group of target PCs based upon hardware or software attributes in order to streamline OS migration or patch deployment.

Client Staging Area—An area on the client machines used to store files and images, and is preserved during a system restore or OS migration.

- Use a directory on a client computer as a repository for Symantec Ghost image files, application packages, user profiles, or other files.
- Preserve the contents of a selected directory during a restore, keeping a local backup and recovery image file available for repeated use.
- Restore a disk or partition with an image stored on the same disk or partition.

Multicast file transfer—The ability to deploy individual files to multiple recipients simultaneously.

- Minimize time and bandwidth by using multicast as opposed to traditional unicast services.
- Flexible file transfer, so administrators can specify the ultimate file transfer destination.

GDisk—Meets the levels of secure data disposal for U.S. Department of Defense standards.

- Ensures that confidential data cannot be recovered from recycled, retired, or leased PCs.
- Provides assurance that confidential and sensitive information will be securely destroyed.
- Runs under DOS and under a 32-bit Windows environment, such as Win PE.

> Additional Symantec add-on solutions

- Symantec pcAnywhere™, the world's leading remote control solution for help desk personnel and remote server administration.
- Symantec ON Command Discovery™, a practical and easy-to-use IT asset management solution for tracking all of your hardware and software assets, including licenses and software usage.
- Symantec ON iPatch™, an easy-to-use patch management and remediation solution allowing you to quickly and efficiently protect your infrastructure from known vulnerabilities.
- Symantec LiveState™ line of products, a disk-based system and storage backup solution for real-time backup and disaster recovery for servers and desktops running the Windows operating system.

For more information about Symantec Ghost Solution Suite, visit <http://sea.symantec.com>

SYSTEM REQUIREMENTS

SYMANTEC GHOST SOLUTION SUITE

The minimum hardware and software requirements to run Symantec Ghost Solution Suite vary according to the components you install. To determine whether you have all of the system requirements for Symantec Ghost Solution Suite, visit our Web site at www.symantec.com/ghost

SERVER:

- Hardware:
 - Pentium III or higher
 - 512 MB RAM
 - 10/100—MBPS NIC
 - CD-ROM drive
 - The amount of disk space required depends on the number of planned client migrations and average package size
- Windows 2000 Professional (SP3)/Server (SP3)/Advanced Server (SP3), XP Professional (SP1), Windows 2003 Server Standard and Enterprise Editions
- Databases—one of the following must be installed on the server computer:
 - MSDE 2000 (limited to small user counts)
 - SQL 7.0
 - Microsoft SQL Server 2000
- IIS 5.0 or higher (for the Symantec Client Migration component)
- Network—Internet or intranet connection

CLIENT:

- 133 MHz Pentium®
- 32 MB RAM
- 6 MB disk space
- Available disk space to equal twice the size of the largest file to be migrated on the C: drive when restoring a package.
- Windows 95b, 98 SE, 4.0 (NT 4.0), 2000 Professional (SP1), XP Professional, or XP Tablet PC Edition (Win Me and XP home not supported)
- Microsoft Internet Explorer 4.01 (SP1), or higher

CONSOLE:

- 400 MHz or higher Pentium compatible CPU
- 64 MB RAM
- VGA monitor, 800 x 600 screen resolution
- One of the following: Windows 2000 Professional/Server SP4, Windows XP Professional SP1a, Windows Server™ 2003 Standard/Enterprise:
 - Microsoft Internet Explorer 5.01 SP1 or higher
 - Network access
 - Microsoft Data Access Components (MDAC) 2.8 or higher (for the Symantec Client Migration Component)

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