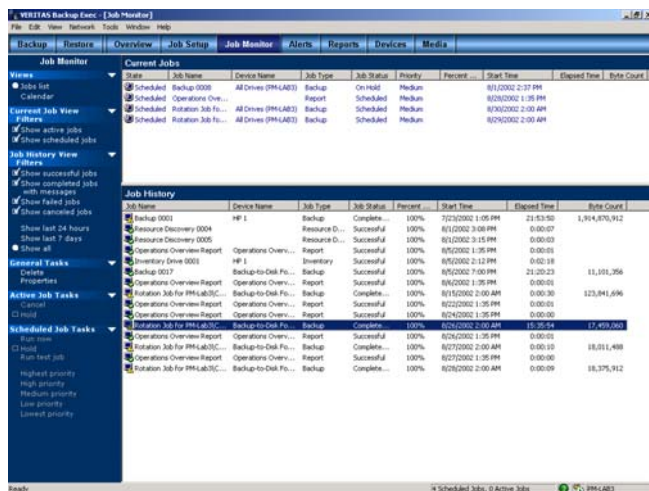


# VERITAS Backup Exec™ 9.1 for Windows Servers

## SUPERIOR WINDOWS DATA PROTECTION

IT administrators require a reliable, easy to use, data protection solution that is cost effective and scalable enough to grow from a single server into a multi-server storage area network (SAN). The ideal solution must back up more data with less hardware, in less time, and, with fewer resources. The solution must be simple enough for the novice user to install and administer, yet flexible to protect large Windows environments, departmental workgroups, remote office environments and critical data on desktops and laptops.

VERITAS Backup Exec™ 9.1 for Windows Servers is a leading Windows data protection solution providing comprehensive, cost effective, certified protection for Microsoft Windows server environments<sup>1</sup>. A web-based administration console and intuitive graphical user interface consolidates product operations within a browser-like view and features easy-to-use wizards that simplify data protection and recovery procedures for any level user and any size network. Optional high-performance agents support granular recovery of today's business critical messaging and database applications. Options help deliver the flexibility to quickly protect and restore desktop, laptop and server data.



Graphical user interface helps ease installation, simplify backup and recovery administration and consolidate management operations to a single console.

## KEY BENEFITS

- Reduces operational cost in Microsoft Windows environments
- Improves productivity with the fastest installation, simplified use, and manageability
- Increases Windows application availability
- Offers certified compatibility across all Microsoft Windows Servers, including Microsoft Windows Server 2003
- Extends enterprise-level data protection to desktops and laptops

## Product Highlights

- **Certified by Microsoft for Windows Server Environments** — Protects the latest Microsoft Windows operating systems including Windows Server 2003.
- **NEW! Desktop and Laptop Option** — Provides continuous disk-based protection and synchronization for users that are in the office or on the road. It is designed to automatically copy user data to existing network shares or storage, enabling quick recovery of data by the administrator or the user.
- **ENHANCED! Faster Backup and Recovery For Exchange and Exchange Server 2003** — Single instance storage of message attachments, incremental/differential mailbox backups and individual public folder restore provide granularity and deliver faster backup and recovery of Exchange Servers. Automatic recreation of mailboxes and user accounts during a restore further streamline the recovery process.
- **NEW! Windows Storage Server 2003 Support** — Transforms Microsoft Storage Server 2003 NAS appliances into a complete storage solution. Easily and inexpensively manage backups using the industry's first administrator interface, which integrates into the Storage Server 2003 management console.
- **NEW! High Performance Network Backup of 64-bit Windows Remote Systems** — VERITAS exclusive remote agent technology expands network-wide data protection and optimizes throughput for 32 and 64-bit remote Windows servers.
- **ENHANCED! Agent for Microsoft SQL Server** — Now extends protection to 64-bit remote SQL databases.
- **ENHANCED! Support for Volume ShadowCopy Service Writers** — Backup Exec 9.1 software integrates with Microsoft's VSS writers to ease the protection and recovery of Exchange Servers and SharePoint Team Services.



## Reliability

Backup Exec software is the ideal data protection solution for any type of Windows server environment. Its proven, innovative architecture fully incorporates Microsoft's design standards, including COM+, MAPI, VDI, Active Directory and WMI helping to ensure 100% compatibility with Microsoft's Windows Server operating systems. Backup Exec software fully embraces Microsoft standards and is Microsoft certified for both Windows Server 2003 and Windows 2000.

Reliability features include Automatic Job Retry, Cyclical Redundancy Check (CRC) Data Verify and Database Consistency Checking that assists in maintaining data integrity with high-speed verification. Alert filtering and history capabilities and enhanced notification setup provide complete flexibility in specification of recipients. The Job Test Run checks tape capacity, user credentials and other criteria to identify potential problems that can prevent successful job completion and notifies the administrator via e-mail, pager/phone or on the administration console.

## Ease of Use

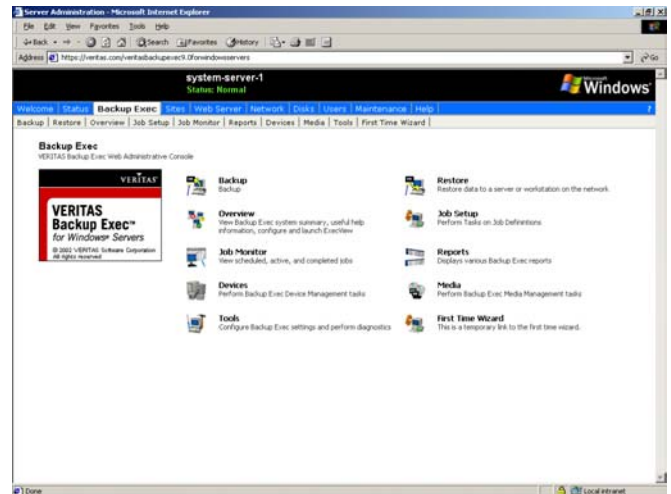
VERITAS Backup Exec software's features are easy to use and deliver powerful functionality required for managing more complex networks. Installation prompts administrators to answer all the key questions during the set up process, streamlining the installation process.

Job Templates help increase user efficiency by allowing administrators to quickly set up or edit a template shared by multiple jobs, eliminating the need for individual job editing. Using the Admin Plus Pack Option\*, administrators can centrally create and manage distributed Backup Exec servers and push install previously created jobs, templates and selection lists to the remote media servers, reducing the time needed to manage each server individually. In addition to the 14 reports offered within the core product functionality, the Admin Plus Pack Option features 24 additional reports to further simplify administration.

Color Coded Job Logs present a job summary and enable easy identification of success or failure conditions, providing greater detail of job history without having to view the entire log. Automatic Discovery of new resources enables administrators to create a job for detecting new unprotected resources, including local and remote databases or volumes that are at risk and in need of backup. These features and many others available with Backup Exec software simplify the daily management of complex backup and recovery operations.

## Administration Consoles

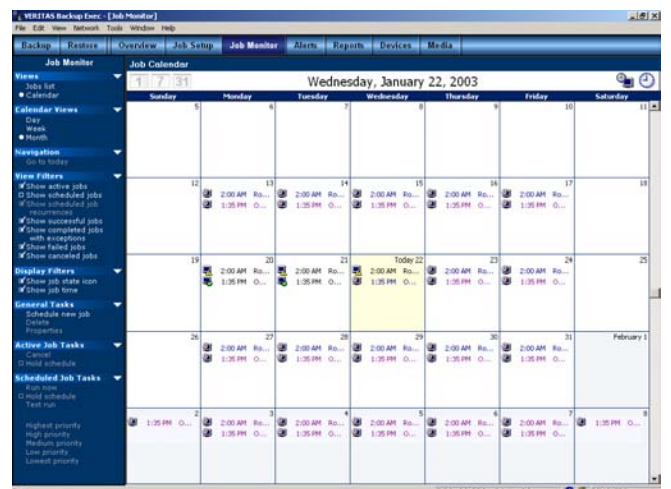
Backup Exec 9.1 software provides the industry's only web-based console that snaps into the administration console on new Microsoft Storage Server 2003-based NAS appliances, as well as Microsoft Server 2003 and Windows-Powered NAS appliances, easing administration and providing single, centralized management in a browser environment.



The Backup Exec Web Administration Console provides web-based administration for servers running Windows Server 2003 and Windows Storage Server 2003 NAS appliances.

The 32-bit graphical user interface provides a browser-based look and feel for ease of use and administration for novice and seasoned users alike. An Information Desk View provides quick access to technical support information. On-line manuals and wizards guide users through many common tasks, simplifying configuration, media rotation, device sharing and disaster recovery. The system summary screen provides details about backup jobs, devices, media and alerts status giving the administrator a single view of the most pertinent information.

An Outlook-style calendar-based job scheduler with preview panes, a task pane and a tree view allows users to take full advantage of tabbed dialogs, property sheets, tool tips and right-click context sensitive menus.



Outlook-style Calendar-based scheduler simplifies job scheduling with quick viewing in a single day, week or full month calendar format.

## MAXIMUM PERFORMANCE

The Backup Exec software architecture is designed to minimize network traffic and maximize throughput performance. The optional Remote Agents for Windows\* and NetWare\* servers use VERITAS' exclusive Agent Accelerator technology for distributed processing and source compression providing client access when protecting or restoring remote file and database servers.

Performance features and enhancements in this release of Backup Exec software include the ability to:

- Leverage high performance network backup of all Windows server platforms, including 64-bit remote systems.
- Improved backup performance with Backup to Disk using hard disks or removable media such as DVD-RW, ZIP, JAZ and CD-RW – allowing configuration of size limits for managing disk capacity.
- Duplication of Backup Data functionality enables administrators to automatically copy single or multiple sets of data to tape or disk for archiving, true disaster recovery, or data compliance requirements. By using Backup-to-Disk in conjunction with the Duplication of Backup Data functionality, administrators can stage backups to disk for faster recovery. The Duplication functionality can then be set up to automatically send that data to tape or disk for offsite disaster recovery data management. Duplication of Backup Data also helps businesses comply with e-mail or other business archiving practices or regulations.
- Leverage Windows Change Journal integration and use the Windows modified time instead of relying on the archive bit – allowing incremental and differential backups to run faster by eliminating the need to perform larger, full backups.
- Reduce LAN traffic and enhance backup and recovery performance by selecting a Network Interface Card to reroute backup and restores to a secondary LAN on the network.
- Ensure all files on local and remote servers are protected even while in use. The Advanced Open File Option can use Microsoft Volume Snapshot Service (VSS) components on Windows Server 2003 or VERITAS Volume Manager FlashSnap™ – providing alternate frozen image solutions to protect open files or SQL servers.

### New Backup Exec Certification Program

The VERITAS Certified Professional Program introduces the Certified Backup Exec Specialist Program. Certification enables individuals, and the companies who employ them, to increase their competitiveness with strategic and proven storage management skills and expertise. Organizations benefit from a qualified team of storage professionals that help lower operating costs and increase productivity.

This globally focused program is designed to ensure that VERITAS professionals possess consistent, high-performance, technical problem-solving skills. Visit [www.veritas.com/education](http://www.veritas.com/education) for more information.

- Automate the complex recovery process for SQL Servers – VERITAS Intelligent Disaster Recovery Option uses copies of the Master and Model database to start SQL Server, allowing a single pass restore and eliminating the need to reinstall the SQL application.

### Centralized Administration

For highly distributed backup operations, Backup Exec software's ExecView Application is designed to provide remote monitoring and administration of individual Backup Exec servers from any Windows server or workstation. The web-based ExecView feature, accessible from the user interface, centrally monitors the activities of all Backup Exec servers running on Windows or NetWare servers, over the LAN or WAN from any Web browser.

Exercise greater control of remote Backup Exec servers on the network with the new Admin Plus Pack Option\* — providing the ability to clone and remotely install media servers as well as copy jobs, selection lists and job templates between media servers. The Admin Plus Pack Option also delivers 24 additional management reports and advanced capabilities such as report scheduling and e-mailing to identified recipients.

### Disaster Recovery Protection

Proactive preparedness is the key to ensure that business-critical data is readily available in the event of a disaster. The Duplication of Backup Data functionality discussed earlier is one method of providing disaster recovery protection.

With the Intelligent Disaster Recovery Option, VERITAS simplifies and automates the process of preparing for and recovering all data and system information from a "point-in-time" due to a disaster.

The Intelligent Disaster Recovery Option\* integrates directly with Microsoft's Automated System Recovery (ASR) functionality in Windows Server 2003 and Windows XP to provide disaster recovery on Windows servers. Additionally, the Intelligent Disaster Recovery Option integrates directly with daily backups to provide wizard-based disaster recovery of local and remote Windows servers. The restoration process can be initiated via diskettes, CD/RW, or bootable tape to allow for system recovery without reinstalling the operating system. System files are restored from the most recent full, incremental, differential or working set backup.

### Cluster-Aware Operation

Improve system fault tolerance by protecting highly available Microsoft Cluster Server (MSCS) machines with Backup Exec software — leveraging Microsoft's Clustering APIs to provide automatic backup server failover in active/passive cluster deployments. Failure of the primary server invokes Backup Exec software's checkpoint-restart feature to automatically begin operating on a secondary node at the point of failure, redirecting the current job and remaining scheduled jobs to the secondary node in the cluster. Protection of clustered active-active applications is also supported.

**Advanced Device and Media Management (ADAMM)**

Built-in media management and administration for Backup Exec software extends beyond just writing data to the media — ADAMM prevents accidental overwrite of data and automates the storage device operations. Adding the Library Expansion Option\* expands the Backup Exec software's capabilities to multi-drive tape library systems, which enables additional drives in a library to be accessed for expanding storage capacity.

By streamlining high-capacity backups with rule-based policies, jobs run concurrently and are automatically directed to the first available drive, resulting in optimized performance. The built-in wizards guide users through routine tasks such as device pooling, creating media sets and establishing Grandfather-Father-Son media rotation schemes. Other features include automatic media labeling, bar code reading, media statistics, device cleaning, user defined data retention periods, and catalogs displaying either volume or media-centric views. Integrated slot partitioning enables users to partition slots within an autoloader or library and target jobs to a specific slot.

**Support for Emerging Storage Technologies**

VERITAS addresses the increasing demand for high performance and scalability of storage applications by developing support for the latest storage technology. As new "storage appliances" are being released to capture the explosion of information on today's growing networks, Backup Exec software has expanded its ability to recognize and protect file and database application data on native and emulated Windows NAS storage devices. The SAN Shared Storage Option\* enables LAN-free backup for Windows and NetWare servers over a fibre-channel or iSCSI network, helping to improve tape device sharing, reduce network traffic and increase backup speeds.

**VERITAS Backup Exec Options and Agents**

Backup Exec software is the award winning solution for high performance, reliable Windows data protection, and the most comprehensive solution for growing and upgrading networks. Backup Exec software can be expanded with database protection and storage management solution tools for the diverse application needs of growing network environments in all industries. Easily integrate "hot backups" of today's business critical, 24x7 groupware, database, and file/data applications server operations into scheduled network backups with the optional Backup Exec groupware and database agents. Media Server options expand control of storage resources and provide alternate backup strategy to support desktop and laptops.

**New Support Offering – DirectAssist**

VERITAS has long been acknowledged for providing high quality service and support. Continuing in the tradition of providing customers with the best services, VERITAS introduces DirectAssist. This powerful web-based application tool enables customers to leverage VERITAS' technical expertise to solve their own problems through self-help diagnostics and problem resolution scripts. These scripts provide VERITAS Technical Service Engineers (TSEs) with application specific information that will serve to help reduce a customer's time to resolution.

**Desktop and Laptop Protection**

Protecting critical data on users' desktops or laptops is a challenge for any IT organization because existing policies are not effective. With the introduction of the Desktop and Laptop Option (DLO), VERITAS delivers effective, high-performance data protection to desktops and laptops for continuous backup protection whether in the office or on the road. By automatically copying user data to existing network share, this new option enables users to restore their own files and maintain synchronization between multiple desktops and laptops. The Desktop and Laptop Option easily integrates into existing IT infrastructure and policies, lowering the total cost of ownership.

**AVAILABLE AGENTS AND OPTIONS SOLD SEPARATELY INCLUDE:**

**Media Server Options**

Exercise greater control of storage resources and alternate backup techniques on Backup Exec Media Servers.

- Admin Plus Pack Option
- **ENHANCED!** Advanced Open File Option\*\*
- **NEW!** Desktop and Laptop Option

**Remote Client Access Options**

Connect and protect remote Microsoft Windows and Novell NetWare servers on the network.

- Remote Agent Client Access License (CAL) for NetWare Servers
- Remote Agent Client Access License (CAL) for Windows Servers

**Online Groupware Agents**

Non-disruptive protection for corporate e-mail messaging and knowledgebase applications.

- Agent for Microsoft Exchange Server\*\*
- Agent for Microsoft SharePoint Portal Server\*\*
- Agent for Lotus Domino\*\*

**Online Database Agents**

Protect and recover mission-critical database applications.

- **ENHANCED!** Agent for Microsoft SQL Server\*\*
- Agent for Oracle\*\*
- Agent for R/3 for Oracle\*\*

**Disaster Recovery Options**

Total recovery of local or remote systems.

- Intelligent Disaster Recovery Option

**Storage Options**

Used for expanding to larger media storage devices or sharing storage resources over a SAN.

- Library Expansion Option
- SAN Shared Storage Option
- Tivoli Storage Manager Option

FEATURES	BENEFITS
<b>Windows Compatibility</b>	
Support for Microsoft Windows Servers	Microsoft certified support for Windows Server 2003, Windows 2000, and Windows NT helps reduce costs, deployment time and ensure compatibility and reliability.
Full Windows File System Support	Windows 2000 and or Windows Server 2003 File System Support for FAT 16/32, VFAT, NTFS, CDFS, and UDF including Macintosh and POSIX file systems delivers maximum flexibility for diverse client support.
Supports Windows NT Registry, Windows 2000 and Windows Server 2003 System State and ShadowCopy components	VERITAS Agent Accelerator technology protects all operating system information including Active Directory of local or remote servers and workstations.
Cluster Configuration Wizard	Eases installation and configuration of Backup Exec in a Microsoft Cluster Server (MSCS) environment and provides automatic cascading failover for up to 8-node clusters and also protects clustered applications running on the Microsoft Cluster Server (MSCS).
Microsoft Tape Format Read/Write	Allows the interchange of media with the Windows Server backup applet.
<b>Flexibility &amp; Ease of Use</b>	
Graphical User Interface	Provides a browser-like logical layout for ease of use and enables customization of the columns, layout and type of information to be displayed.
<i>NEW!</i> Desktop and Laptop Option (DLO)	Extends enterprise-level data protection to desktop and laptops.
<i>NEW!</i> Support for Remote 64-bit Windows Systems	Provides high performance network backup of Intel 64-bit remote systems.
<i>NEW!</i> Support for Exchange Server 2003	Leverages Microsoft Exchange Server 2003 Volume Snapshot (VSS) technology enabling users to select either the VERITAS or the Microsoft proprietary snapshot technology for protecting open files.
<i>NEW!</i> Support for SQL 64-bit Servers	Delivers fast, dependable method for complete SQL Server protection on 32 or 64-bit servers.
<i>NEW!</i> Support for Microsoft Storage Server 2003	Improves application data protection by turning Microsoft Storage Server 2003 NAS appliances into a complete storage solution that is easy to manage and inexpensive to maintain. Easily and inexpensively manage backups using the Backup Exec administrator interface, which integrates with the Storage Server 2003 NAS administrator console.
Web-based Browser Interface	Simplifies management of Backup Exec running on Windows Server 2003 and Windows Storage Server 2003 NAS appliances.
Task Wizards	Facilitate installation, setup, backup, recovery, media management, disaster preparation, cluster installation and agent configuration.
ExecView Server Monitoring Tool	Centralizes the monitoring of backup job activity across multiple Backup Exec for Windows and/or Backup Exec for NetWare servers.
Backup via Specified Backup Network using Secondary NIC	Helps reduce LAN traffic by isolating backup and restore operations to a sub-network.
One-Button Backup	Speeds execution of a complete local system backup without having to define a backup job.
Outlook-style Calendar Based Job Scheduler	Facilitates viewing of job scheduling and management of backup operations.
Admin Plus Pack Option	Facilitates installation, configuration of remote Backup Exec servers, cloning, copying jobs, selection lists and job templates between media servers. Includes 24 advanced reports.
Job Retry	Automatically retries a failed job and reroutes jobs to alternate drives.
Automated Alert Notification and SNMP Support	Framework console notification via Microsoft Exchange, Lotus Notes or SMTP e-mail, pager, printer, net send broadcast, and network monitoring applications.
Cyclical Redundancy Check	Helps to ensure reliability with high-speed data verification.
<b>Advanced Device and Media Management</b>	
Backup to Disk	Delivers faster backups and restores using disk media, including hard drives, NAS appliances and RAID systems as storage media and data staging.
Device Pooling, Cascading and Dynamic Load Balancing	Maximizes backup/restore performance and facilitates job failover.
Automated Media Management	Enables easy set-up of media formatting, labeling, tracking, rotation, defining of retention periods and catalog viewing.
Automated Log Files and Disk/Catalog Grooming	Frees hard disk space from inactive files.
Autoloader/Library Slot Partitioning	Allows backup jobs to be targeted to specific slots within a tape autoloader or library; mix drive types within a tape library.
System Summary Screen	Provides administrators with a central, consolidated view of the Backup Exec server status simplifying job management.
VERITAS Update	Checks the VERITAS website at user specified intervals for any available Backup Exec updates informing the user of the latest patches or hot fixes available.

## WORLDWIDE LEADER IN WINDOWS DATA PROTECTION

### Minimum System Requirements

#### Operating System:

- Microsoft Windows Server 2003 and 2000 Family
- Microsoft Windows Small Business Server including 2003, 2000 and NT4 Family
- Microsoft Windows Storage Server 2003 and Windows Powered SAK 2.0 or Higher NAS appliances
- Microsoft Windows NT Workstation v4.0 or Microsoft Windows NT Server Operating System v4.0

(Windows NT requires Service Pack 6a or higher)

#### Internet Browser:

Internet Explorer 6.0 or higher

#### Processor:

Pentium system

#### Memory:

Required: 256 MB RAM required above operating system and application requirements

Recommended: 512 MB RAM (or more for better performance) above operating system and application requirements

#### Virtual Memory Recommendations:

20 MB above Windows recommended size for total paging file size (total for all disk volumes)

#### Disk Space:

550 MB hard disk space required after Microsoft Windows is installed (typical installation)

Backup Exec Database and Catalogs will require additional space

#### Minimum Video Settings:

800 x 600 Resolution, 256 colors

#### Other Hardware:

Network interface card or a virtual network adapter card  
CD-ROM drive

(Recommended) A mouse

(Optional for printer notification) Requires a printer supported by Microsoft Windows

(Optional for pager notification) Modem supported by Microsoft Windows

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650-527-8000 or 866-837-4827

### Storage Hardware

Backup Exec software supports unlimited standalone tape devices and can use removable or fixed disk storage for backup and restore.

Backup Exec software provides support for a single robotic library drive.

Support for additional robotic library drives is available by purchasing the Backup Exec Library Expansion Option.

Refer to the Backup Exec hardware compatibility list at:

<http://support.veritas.com/rd/bews-compatibility.htm>

For a complete list of supported SCSI controllers, refer to the Windows Hardware Compatibility list at: [www.microsoft.com](http://www.microsoft.com)

### Application Support

Backup Exec Agents and Options support most major applications. Refer to the Backup Exec application compatibility list at

<http://support.veritas.com/rd/bews-compatibility.htm> for a complete application support list.

### Supported Tape Formats

Microsoft Tape Format v1.0 (read and write)

Backup Exec *for NetWare* (read)

CA ARCserve v6.x and ARCserve 2000 for Windows NT and Windows 2000 (read)

CA ARCserve v4.x, 5.x and 6.x for NetWare (read)

SMS/SIDF (read)

### Backup Exec 9.1 for Windows Servers

Backup Exec software installs on and protects Windows NT 4.0 Workstation/Server, Windows 2000 Professional, Windows 2000

Server, Windows 2000 Datacenter Server, Windows 2000 Advanced Server or Windows Server 2003 Family. Client protection includes remote Windows 98/ME, Windows NT 4.0 Workstation, and Windows 2000 Professional and XP Professional machines, as well as Macintosh, UNIX, and Linux.

\* Option/Agent sold separately

\*\*These options include a Remote Agent (CAL) for Windows Servers

For more information consult the Backup Exec Tech Support page at:

[http://support.veritas.com/menu\\_ddProduct\\_BEWNT.htm](http://support.veritas.com/menu_ddProduct_BEWNT.htm).

<sup>1</sup> Source: Gartner Dataquest "2002 Storage Management Software Market Share" (April 15, 2003)

For additional information about VERITAS Software, its products, or the location of an office near you, please call our corporate headquarters or visit our Web site at [www.veritas.com](http://www.veritas.com).