

# Symantec Backup Exec™ 2012 Agents and Options

## Data Sheet: Data Protection

### Overview

Symantec Backup Exec™ 2012 Agents and Options enhance and extend the Backup Exec features, capabilities, and platform support. Whether you need to protect VMware® ESX®, Microsoft Hyper-V®, physical servers, critical applications, or databases, Backup Exec 2012 has a portfolio of high powered agents and options to scale and grow your Backup Exec environment.

### Backup Exec Agents

#### Backup Exec Agent for VMware and Hyper-V

Provides complete protection of VMware and Hyper-V virtual machines with host-level backup, powered by Symantec™ V-Ray technology. Unlike other solutions, through a single pass backup, this powerful agent enables one-click recovery at the virtual machine, virtual disk, application, file/folder, and even granular object level from that same single image-level backup without restoring the entire virtual machine—eliminating the time and storage requirements of a second file level backup.

- Protects an unlimited number of Microsoft or VMware guest virtual machines per host
- Multiple data recovery options from a single pass backup in seconds:
  - Full virtual machines
  - Individual VMDK and VHD files
  - Applications and databases
  - Individual files and folder
  - Granular data from virtualized applications including: Microsoft® Exchange, SQL®, SharePoint®, and Active Directory®<sup>1</sup>
- Verify the recoverability of virtual machine backups
- Integration with VMware vSphere™ vStorage API's to maximize backup and recovery performance

- Integration with Microsoft Volume Shadow Copy Service (VSS) for virtualized application protection
- Support for disk and tape storage environments

#### Backup Exec Agent for Applications and Databases

The Backup Exec Agent for Applications and Databases provides market leading data protection for Exchange, SQL, SharePoint, Active Directory, Oracle®, Symantec Enterprise Vault™, and Lotus Domino® in a virtual or physical environment.

- **Protection for Exchange**—Revolutionizes data protection and recovery by significantly reducing the number of backups and time required to protect Exchange. Only Backup Exec 2012 leverages ground-breaking patented Granular Recovery Technology (GRT) which helps IT Administrators save valuable time and money by giving them the ability to restore critical data such as individual emails and mailboxes from a single pass backup in seconds without the need for multiple Exchange backups. Fast, flexible technology protects Exchange 2003, 2007, and 2011 (including 2011 SP1) Servers while the application is still online.
- **Protection for SQL Server**—Designed to be flexible and easy to use, protection for SQL Server provides fast, online protection of SQL Server with flexible recovery options that enable IT administrators to restore SQL Server databases down to the individual file group from a single pass backup. Administrators can also restore SQL Server databases to destinations other than where they originated, directing a copy of the actual data streams being sent to media by a SQL Server database to a local directory for later use. SQL Server 2008 snapshots are integrated into the Backup Exec catalog for a consolidated look at all data copies available for recovery in seconds.

<sup>1</sup>. Requires the Agent for Applications and Databases or Symantec Backup Exec™ 2012 V-Ray Edition

- **Protection for SharePoint**—Quickly and easily recover individual objects, documents, or the entire SharePoint farm with robust data protection for SharePoint. Supports SharePoint 2010, both Microsoft Office SharePoint Server 2007 and Microsoft SharePoint Portal Server 2003, as well as Windows® SharePoint Services 2.0/3.0. Using a 32-bit or 64-bit Backup Exec 2012 media server, you can protect 32-bit or 64-bit MOSS-2007 servers deployed on a single-server or within a multi-server farm. Protection for SharePoint leverages ground-breaking patented Granular Recovery Technology (GRT) which helps users save time and money and reduces complexity by providing the ability to restore individual documents, sites, and list items quickly and easily from a single-pass database backup without having to recover the entire database. Each file is recovered with attributes and security fully intact. GRT also enables the IT Administrator to restore the documents to the original document library in the SharePoint farm or redirect the restore of documents to the file system.
- **Protection for Active Directory**—Dramatically reduce the time to recover from small disasters of lost, deleted, corrupted, or overwritten user accounts, objects, and attributes, helping to improve employee productivity, reduce the potential for greater issues, and alleviate the aggravation associated with traditional Active Directory protection and recovery. Only Backup Exec 2012 leverages ground-breaking patented Granular Recovery Technology which helps IT Administrators save time and money by giving them the ability to restore critical data such as individual user accounts and organizational units from a single pass backup while Active Directory remains online—without rebooting!
- **Protection for Enterprise Vault**—Provides integrated backup protection for Enterprise Vault archives, including support for Enterprise Vault 8, 9, and 10. Through this agent, Backup Exec provides full application protection for Enterprise Vault directory databases, partitions, or vault stores and indexes. All backup and recovery jobs are managed through the Backup Exec administration console which allows users to easily select some or all of the Enterprise Vault resources they wish to backup as well as quickly browsing and selecting the Enterprise Vault components for recovery, including entire sites, individual partitions, and indexes.
- **Protection for Lotus Domino Server**—Integrates comprehensive data protection of vital Lotus Domino 7.x, 8, and 8.5 messaging and collaboration databases within daily backup activities. Supports both 32-bit and 64-bit versions of Lotus Domino including partitioned and clustered Lotus Domino servers and new support for Domino Attachment Object Service (DAOS) store and associated NLO files. Using the native Domino backup API, protection for Lotus Domino server integrates non-disruptive data protection of the databases and transaction logs. Plus flexible restore options include database redirection and point-in-time "rollback" recovery of databases or transaction logs. Users benefit from user-controlled recycling of the transaction logs, reducing manual intervention, and speeding up recovery.
- **Protection for Oracle on Windows and Linux® Servers**—Integrated non-disruptive data protection for business-critical Oracle 11g, 10g, and 9i databases. Use advanced features, such as the granular protection of individual table spaces or a complete application/database backup and the protection of archived redo logs and control files, without ever taking them offline. Backup Exec 2012 delivers full support of Oracle's Recovery Manager (RMAN). Initiate backups and restores from the Backup Exec media server or from the Oracle RMAN console. Multistream support is available for increased performance during backups and restores. Supports Intel® Xeon® EMT64, Intel Pentium® EMT64, AMD Athlon™, and AMD Opteron™ processors. The new version also supports Red Hat® and SUSE® Linux®. Backup Exec 2012 also provides protection for Oracle application servers or business critical applications requiring high availability running within Oracle Real Application Clusters (RAC) on Windows and Linux servers. Initiate backups and restores from the

Backup Exec media server or from the Oracle RMAN console. Multistream support is available for increased performance during backups and restores.

### **Backup Exec Agent for Windows**

The Backup Exec Agent for Windows provides high-performance data protection for remote Windows servers and includes Open File protection and Simplified Disaster Recovery. This Agent optimizes data transfers for 32-bit and 64-bit remote Windows servers with exclusive Agent Accelerator technology that provides source-level compression and distributed processing at the client.

Open files are protected with the Advanced Open File capability built into the Agent for Windows. This capability integrates with VSS to protect open files in multiple volumes and ensures files on local or remote servers are protected while in use.

The Simplified Disaster Recovery feature saves time by automating the traditional manual, error-prone process of system recovery. This bare-metal, hardware independent disaster recovery technology quickly recovers complete servers, enabling restoration to the same hardware, to dissimilar hardware or even a virtual machine.

With four powerful technologies wrapped into one agent, users truly have complete data and system protection for every remote Windows server.

### **Backup Exec Agent for Linux**

Provides high-performance protection for remote 32-bit and 64-bit Linux servers with support for both Intel and AMD 32-bit and 64-bit processors. This agent extends the Backup Exec advanced agent technology to Linux operating systems by providing full, incremental, and differential backup support, restore capabilities, and client-side deduplication for supported distributions of Linux.

Please note: Deduplication requires the Deduplication Option to be licensed on the Backup Exec 2012 media server.

### **Backup Exec Remote Media Agent for Linux Servers**

Provides storage flexibility for Linux servers running in a Backup Exec environment. IT administrators can directly attach tape and disk storage devices to a remote Linux server, allowing backup data to be protected directly to those Linux-attached storage devices. This provides added flexibility and reduced bandwidth requirements for backup jobs, especially for larger backups (for instance, file server or Oracle on Linux backups) on those remote Linux servers. Each Remote Media Agent for Linux Servers includes the Agent for Linux, so the local Linux server can be protected. All management and configuration of the Remote Media Agent, including backup jobs, restore jobs, and storage, is performed through the Administration Console administering the Windows-based Backup Exec Server.

### **Backup Exec Agent for Macintosh®**

Provides support for online non-disruptive backup of Macintosh operating systems. The expanded Macintosh platform support broadens the data protection offering for Backup Exec customers and further ensures up to date backup and recovery for heterogeneous platforms.

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## **Backup Exec Options**

### **Backup Exec Deduplication Option**

Easily reduce data backup storage by 10:1 while optimizing network utilization across physical and virtual environments with the Backup Exec Deduplication Option. Unlike other solutions, it provides an integrated and customizable deduplication offering to optimize any backup strategy with client deduplication (deduplicates data at the source), media server deduplication (deduplicates data at media server), or appliance deduplication (integrates with OpenStorage deduplication appliances). In addition, when used with the Enterprise Server Option, deduplicated backups can also be replicated efficiently over wide area networks (WAN) environments to another Backup Exec media server (deduplicates data from remote offices to headquarters) providing a solution that will adapt to any environment. Whether you deduplicate at the client, media server, or

appliance, Backup Exec can deduplicate across all backup jobs including physical and virtual backups at the same time delivering superior deduplication capabilities.

### Enterprise Server Option

The Enterprise Server Option provides ultimate licensing simplicity by consolidating three Backup Exec options into one. Each Enterprise Server Option, licensed per managed Backup Exec environment, gives you unlimited access to the Backup Exec Advanced Disk-Based Backup Option, Backup Exec Central Admin Server Option, and Backup Exec storage area network (SAN) Shared Storage Option.

- **Backup Exec Advanced Disk-Based Backup Option**—Enables faster backups and restores through advanced disk-based backup and recovery, including synthetic and off-host backups to perform zero impact backups. Synthetic backups reduce backup windows and network bandwidth requirements and do not impact the original client. True image restore functionality automatically restores data sets sequentially, simplifying restores. The off-host backup feature provides SAN-based Microsoft VSS-enabled snapshots using supported third-party hardware storage arrays. This enables better backup performance and frees the remote computer from processing the backup operation by taking a snapshot of its data volumes and importing the snapshots to the Backup Exec media server for fast local backup over the SAN. For a list of supported tape devices, please visit: [www.backupexec.com/compatibility](http://www.backupexec.com/compatibility).
- **Backup Exec Central Admin Server Option**—Simplifies management of multiple Backup Exec media servers by providing a centralized management console view of all backup and restore operations. The Central Admin Server uses the same Backup Exec console, but provides a consolidated view of all Backup Exec operations including centralized backup, restore, monitoring, alerting, and reporting for multiple Backup Exec media servers in a Windows data center, distributed throughout the network or at remote offices. The Central Admin Server Option makes Backup Exec simple to grow and effortless to

manage. Operations can continue uninterrupted on the managed media server even when there is a non-persistent network connection to the central administration server.

- **Backup Exec SAN Shared Storage Option**—This powerful local area network (LAN)-free backup solution allows multiple distributed backup servers to centralize storage devices that are connected over a switched fabric or iSCSI SAN for greater performance, efficiency, and fault tolerance. SAN Shared Storage Option load balances job activity across shared devices from multiple Backup Exec servers. For a list of supported tape devices, please visit: [www.backupexec.com/compatibility](http://www.backupexec.com/compatibility).

### Backup Exec NDMP Option

The Backup Exec NDMP Option uses the Network Data Management Protocol (NDMP) to backup and restore Network Attached Storage (NAS) devices including NetApp®, EMC® Celerra, and IBM® N-Series storage configurations. The Backup Exec NDMP Option supports several different NAS storage configurations including local backups to NAS attached tape devices, remote backups of NAS data to a Backup Exec media server (disk or tape), or in a “3-Way” configuration to a second-like NAS device. This flexibility allows backup administrators to design their storage environments for the most efficient backup of their critical data stored on NAS appliances over a SAN or LAN. For a list of supported NAS appliances, please visit: [www.backupexec.com/compatibility](http://www.backupexec.com/compatibility).

### Backup Exec Library Expansion Option

Provides the ability to leverage additional tape drives within a multi-drive tape library. When you install Backup Exec, support for the first drive in every robotic library is included. The Library Expansion Option enables support for each additional drive in a robotic library. Backup Exec supports one of the most comprehensive lists of tape devices in the industry with support for almost all SCSI, SAS, and Fibre attached tape devices from single drive libraries to large tape silos. For a list of supported tape devices, please visit: [www.backupexec.com/compatibility](http://www.backupexec.com/compatibility).

### Virtual Tape Library Unlimited Drive Option

Designed for Virtual Tape Libraries, the Virtual Tape Library (VTL) Unlimited Drive Option provides simple, cost efficient pricing for VTL devices by supporting an unlimited number of virtual tape drives and slots without the need to license each tape drive on a Backup Exec Media server separately. Only a single VTL license is needed per Backup Exec media server regardless of the number of VTL devices. For a list of supported VTL devices, please visit: [www.backupexec.com/compatibility](http://www.backupexec.com/compatibility).

### Backup Exec Exchange Mailbox Archiving Option

The Exchange Mailbox Archiving Option provides unified backup and archiving for growing Exchange environments by uniquely archiving data directly from the backup of the Exchange database without any impact on the production Exchange server. It provides administrators with the ability to reduce redundant data from the Exchange server source to free up storage space. Administrators can then optionally allow their end users to easily retrieve individual archived emails directly from within their standard Microsoft Windows Outlook client with the built-in “Virtual Vault” plug-in. Administrators can also search and restore archived data through the Backup Exec console and redirect the Exchange mailbox data to the original or an alternate location. Overall, the Exchange Mailbox Archiving Option reduces storage while increasing the speed of backup and recovery of the Exchange database after archiving.

### Backup Exec File System Archiving Option

The File System Archiving Option provides unified backup and archiving for File Systems by uniquely archiving data from the backup copy. By archiving data from the backup sets, Backup Exec eliminates additional querying and movement of data on the remote computers. The Backup Exec File System Archiving Option provides administrators with the ability to reduce redundant data from the File server source to free up storage

space. Administrators can easily retrieve archived data through the Backup Exec console. Overall administrators will be able to easily index data and set retention periods to efficiently manage data lifecycles.

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### Backup Exec Add-On

#### Symantec Desktop and Laptop Option

With the majority of business-critical information residing outside of the data center or off corporate servers, protection for desktops and laptops is a must. The Symantec Desktop and Laptop Option is an easy to use stand alone solution which provides reliable automated file protection for desktops and laptops from the market leader in data protection. Whether desktops and laptops are connected to the network or offline, the Symantec Desktop and Laptop option provides continuous data protection.

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### More Information

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Symantec is a global leader in providing security, storage and systems management solutions to help consumers and organizations secure and manage their information-driven world. Our software and services protect against more risks at more points, more completely and efficiently, enabling confidence wherever information is used or stored.

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