

# Backup Exec™ 16 Agents and Options



Enhance and extend Backup Exec features, capabilities, and platform support

## Overview

Backup Exec™ 16 Agents and Options enhance and extend Backup Exec features, capabilities, and platform support. Whether you need to protect Microsoft® Hyper-V, VMware® vSphere®, physical servers, critical databases or applications, Backup Exec 16 has a portfolio of high-powered agents and options to reliably protect your organization's information.

## Backup Exec Agents

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

The Backup Exec Agent for VMware and Hyper-V provides comprehensive protection of VMware and Hyper-V virtual machines through integration with Microsoft® Volume Shadow Copy Service (VSS) and VMware vStorage™ APIs for Data Protection (VADP). Through reliable and consistent application-aware backups for all your virtual machines, Backup Exec minimizes CPU, memory, and I/O load performance impacts on the virtual host.

Additionally, by executing post-processing tasks that don't impact the backup window, such as log truncation, collection of meta data, and catalog creation, Backup Exec 16 delivers highly optimized backup and fast, agile recovery of granular application data directly from storage. Fast and agile recovery includes virtual machine, virtual disk, application, file/folder, and even granular object level recovery from a single image-level backup without restoring the entire virtual machine—helping to eliminate the time and storage requirements of a second file level backup, mounting and staging backup jobs.

Unlike point solutions that deduplicate per backup job, you'll get greater storage savings with Backup Exec 16 advanced technology that deduplicates data across your entire virtual and/or physical environment. For even greater efficiency and enhanced storage savings, Backup Exec 16 includes changed block tracking so you only back up the blocks that have changed,

rather than every block of every VM in your infrastructure. In addition, Backup Exec automatically identifies, protects, and validates the recoverability of new VMs as they appear so you can be assured your VMs are protected and recoverable.

- Protects a practically unlimited number of Microsoft or VMware guest virtual machines per host
- Provides multiple recovery options from a single pass backup
  - Full virtual machines
  - Individual VMDK and VHD files
  - Applications and databases
  - Individual files and folders
  - Granular data from virtualized applications including: Microsoft® Exchange, SQL®, SharePoint®, and Active Directory®
- Verifies the recoverability of every successful virtual machine backup
- Integrates with VMware vSphere vStorage APIs and Microsoft VSS to provide fast and efficient online and offline backups of ESX®, vSphere, and Hyper-V
- Supports disk, tape, and cloud storage environments
- The agent-like executable does not impact the performance of the virtual machine
- Accelerates moving to a virtual infrastructure by rapidly converting physical machines into virtual machines with the VM Migration Accelerator

### Backup Exec Agent for Applications and Databases

The Backup Exec Agent for Applications and Databases provides robust data protection for Exchange, SQL, SharePoint, Active Directory, Oracle® and Veritas Enterprise Vault™ 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. Backup Exec patented Granular Recovery Technology (GRT) helps IT administrators save valuable time and money by providing the ability to restore critical data such as individual emails and mailboxes from a single pass backup in seconds all without the need for multiple Exchange backups. Fast, flexible technology protects Exchange 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 backup with adaptable recovery options that enable IT administrators to restore SQL Server databases down to granular objects 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 snapshots are integrated into the Backup Exec catalog for a consolidated look at all data copies and are available for recovery in seconds.
- **Protection for SharePoint**—Quickly and easily recover individual objects, documents, or the entire SharePoint farm with robust data protection for SharePoint. Protection for SharePoint leverages innovative patented Granular Recovery Technology (GRT) which helps users save time and reduces complexity by restoring 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 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. The patented GRT in Backup Exec 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. 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 Oracle on Windows® and Linux® Servers**—Integrated non-disruptive data protection for business-critical Oracle 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 16 delivers full support for Oracle Recovery Manager (RMAN). Initiate backups and restores from the Backup Exec media server or from the Oracle RMAN console. Multi-stream support is available for increased performance during backups and restores. Backup Exec 16 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. Multi-stream 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 that includes Open File protection and Simplified Disaster Recovery. This Agent optimizes data transfers for 32-bit and 64-bit remote Windows servers with NDMP technology, while also providing 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 on multiple volumes and helps ensure 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 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 comprehensive 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: For data deduplication, the Deduplication Option must be licensed separately.

## 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 Options

### Backup Exec Deduplication Option

Easily reduce data backup storage while optimizing network utilization across physical and virtual environments with the Backup Exec Deduplication Option. 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 OST 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 can adapt to any environment. Whether you deduplicate at the client, media server, or appliance, Backup Exec deduplicates across all backup jobs including physical and virtual backups, which can deliver substantial storage savings.

## Enterprise Server Option

The Enterprise Server Option provides ultimate licensing simplicity by consolidating two 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 and Backup Exec Central Admin Server Option (Backup Exec SAN Shared Storage Option is now built into the Backup Exec Central Admin Server Option).

- **Backup Exec Advanced Disk-Based Backup Option**— Enables fast 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.
- **Backup Exec Central Admin Server Option**— Simplifies management of multiple Backup Exec 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. In addition, the Central Admin Server Option 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. It load balances job activity across shared devices from multiple Backup Exec servers.

## Backup Exec NDMP Option

The Backup Exec NDMP Option uses the Network Data Management Protocol (NDMP) to back up 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 server

(disk or tape), or in a “Three-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.

### **Backup Exec Library Expansion Option**

Use 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.

### **Virtual Tape Library Unlimited Drive Option**

Designed for Virtual Tape Libraries, the Virtual Tape Library (VTL) Unlimited Drive Option provides simple, cost-effective 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.

### **Backup Exec Add-On**

#### **Veritas Desktop and Laptop Option**

With a large amount of business-critical information residing outside of the data center or off corporate servers, protection for desktops and laptops is essential. The Veritas Desktop and Laptop Option is an easy to use standalone solution that provides reliable automated file protection for desktops and laptops. Whether desktops and laptops are connected to the network or offline, the Veritas Desktop and Laptop option provides continuous data protection.

### **More Information**

#### **Visit our website**

<https://www.veritas.com>

#### **To speak with a Product Specialist in the U.S.**

Call toll-free 1 (866) 837 4827

#### **To speak with a Product Specialist outside the U.S.**

For specific country offices and contact numbers, please visit our website.

### **About Veritas Technologies LLC**

Veritas Technologies LLC enables organizations to harness the power of their information, with solutions designed to serve the world's largest and most complex heterogeneous environments. Veritas works with 86 percent of Fortune 500 companies today, improving data availability and revealing insights to drive competitive advantage.

#### **Veritas World Headquarters**

Veritas Technologies LLC  
500 East Middlefield Road  
Mountain View, CA 94043 USA  
+1 (650) 527 8000 | 1 (866) 837 4827 | [www.veritas.com](http://www.veritas.com)