Symantec Backup Exec™ 2014

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Today’s Top Backup and Recovery Challenges

- Reducing Costs and Complexity
- Protecting Virtual Machines
- Meeting Backup Windows and Recovery Time Objectives
- Keeping Pace with Data Growth
- Improving Backup and Recovery Reliability

Backup Exec™ 2014
Yesterday’s backup technology is not good enough to keep your environment protected
Traditional agent-based backup and recovery won’t work in a virtual environment

37% of organizations don’t know when new virtual machines are created or clones

Virtual machine sprawl exacerbates this risk

Nearly 2/3 of virtual machines are improperly backed up

85% of customers want a single management console
The **NEW** Benchmark for Backup and Recovery

Backup Exec™ 2014

Stronger, Faster Backup.
What’s New in Backup Exec 2014?

- Up to 100% faster backups*
- Windows Server 2012 and 2012 R2 support
- Granular recovery for Exchange 2013 and SharePoint 2013
- Superior visibility into backup jobs
- Easy upgrades

*Backup Exec 2014 versus Backup Exec 2012 Backup Performance, Symantec Testing (Jan/2014)
Backup Exec 2014

**POWERFUL**
A backup and recovery engine that outperforms expectations

Radically faster backup and recovery with innovative virtualization capabilities

**FLEXIBLE**
Technology that you can count on to protect your business critical data

Single solution for virtual and physical with fast, efficient, versatile recovery

**EASY**
A user interface that simplifies backup & recovery

Easy to use and manage with visibility across your entire environment
### Protects Both Physical and Virtual Systems
- One solution protects all your critical systems from disaster

### Integrated with VMware and Hyper-V Platforms
- Optimized VMware VADP and Hyper-V platform integration

### Advanced Data Reduction Technologies
- Data deduplication, block optimization, incremental/differential backup

### Easy to Buy and Configure
- Flexible software offerings, capacity licensing, BE 3600 Appliance
Backup Exec 2014
Reduce Costs and Complexity

One Console, One Backup, One Vendor

- Reduce management of multiple products
- Reduce management and licensing costs
- Reduce storage with efficient deduplication
- Fast recovery and increased uptime

Backup Exec™ 2014: Agent for VMware and Hyper-V Technical Overview
Backup Exec 2014
Scalability to Protect Your Infrastructure

Protect the latest platforms and applications

Backup Exec™ 2014 Server

Backup to disk, tape and cloud storage (local or remote)

Support for Windows Server 2012 / 2012 R2, Exchange 2013 SP1, SharePoint 2013 SP1

New!

Single-pass backup of virtual machines and physical servers

New!

Support for Amazon Cloud Gateway VTL

Backup Exec™ 2014: Agent for VMware and Hyper-V Technical Overview
Underlying Principles of Backup Exec
Virtual Environment Protection
Don’t let poor visibility and silos slow you down

Transparent backup and recovery across physical and virtual environments

Patented visibility into virtual machines and applications

3rd Generation Granular Recovery Technology (GRT)
One Backup Solution for Both Virtual and Physical Resources

- **Reduce cost and management of multiple products** - Complete data, application, and system protection for physical and virtual environments.

- **Reduce licensing costs** – Flexible licensing options, including the *Backup Exec V-Ray Edition*, enable simple and fast licensing of the right virtual protection features.

- **Reduce storage resources** – Advanced deduplication and granular file and application recovery from a *single* online, image-level backup.
Support for the Latest VMware vSphere Environments
- vSphere 5.5 (including update 1)
- vSphere 5.1 (including update 1 and update 2)
- vSphere 5.0 (including updates 1 and 2)
- vSphere 4.1 (including updates 1, 2, and 3)
- vSphere 4.0 (including updates 1, 2, 3, and 4)

VMware “Ready” Certified Integration with VMware vStorage APIs
- Enables backup of all virtual machines
- In SAN environments, supports image-level, off-host backups of virtual machines
- Provides backup of VMware virtual machines over SAN infrastructures
- Eliminates the shutting down of virtual machines in order to protect them

VMware Changed Block Tracking: Full, Incremental, and Differential Backups
- Full backups: capture full point-in-time backup of the Hyper-V virtual machine
- Differential backups: backup of only what has changed since the last full backup
- Incremental backups: backup of only what has changed since the last backup

VMware Block Optimization Support
- Intelligent skipping of unused blocks within a virtual disk file
- Greatly reducing backup sizes and increasing backup speed
Integrated V-Ray Granular Recovery Technology
From a single-pass backup of a virtual machine, recover:
- An entire virtual machine
- Individual files and folders
- Entire applications
- Granular application objects

Advanced V-Ray Data Deduplication Support
- VMDK Stream Handler enables increased deduplication efficiency
- Significant reduction of storage requirements for backup

Integration with Microsoft’s VSS API
- Proper protection of applications such as Exchange, SQL, SharePoint, Active Directory
- Application quiescence and log truncation
Easily Manage Growing Data Volumes

Store Less with Efficient Block Level Deduplication

- Reduce the amount of data saved to storage
- Save on disk purchases, floor space and energy requirements
- Improve performance across the network
- Deduplication everywhere - client, media server or OST appliance
- Deduplicate across all backup jobs
- Minimize backup windows with faster deduplication speeds

Virtual

Deduplicate everything

Physical
Further Reduce Storage With Built-In Archiving

Exploding Data Growth

The Digital Universe: 50-fold Growth from the Beginning of 2010 to the End of 2020

Benefits

Reduce the size of Exchange and File servers
Reduce backup sizes and the backup window
Migrate data to less expensive storage
Improved performance of Exchange and File Servers

Rising IT Costs

Application Upgrades, Storage Costs and Backup SLAs

More Data From More Sources In More Places*


Backup Exec™ 2014

Minimize Downtime With Instant Recovery

Migration Accelerator – P2V, B2V & V2P

- Accelerate Move to Virtualized Environment
- Dramatically Reduce System Downtime
- Reduce Management Time and Set-up

Protected Server

Parallel Option

Backup

Convert

Serial Option

Backup

Convert

Backup Exec™ 2014 Server

Hypervisor

- Reduce Management Time and Set-up

Symantec

Backup Exec™ 2014

Windows Server

Hyper-V™
Virtualized Application Protection

Ensuring critical applications are properly prepared for backup when hosted on a virtual machine
• Image-level Backups Using Agent for VMware and Hyper-V
  – Entire virtual machine, including any applications, protected via VSS
  – Ensures applications are in a consistent state at the time of backup
  – VMware tools must be installed to the virtual machine
  – Recovery options limited to full virtual machine recovery and file/folder recovery

• Agent-assisted Backups Using Agent for VMware and Hyper-V
  – Entire virtual machine, including any applications, protected via VSS
  – Ensures applications are in a consistent state at the time of backup
  – Backup Exec Agent for Windows must be installed to the virtual machine
  – Recovery options include:
    • Full virtual machine recovery
    • Application recovery*
    • Granular application recovery*
    • File folder recovery

* requires license of the Agent for Applications and Databases
• **Backup Exec 2014** automatically catalogs VMDK/VHD files during standard backup processing
  
  • **Multiple restore options:**
    
    • Entire VM
    
    • Entire application/database
    
    • Granular SQL, Exchange, SharePoint, or Active Directory data
    
    • Individual files or folders
    
    • From a fast, *single-pass* backup!

• **Reduce storage requirements with Deduplication:**
  Backup Exec 2014 reduces redundant data across multiple VMs and their VHD/VMDK files

• **Reduce backup impact on production VMs:** Backup data captured from single backup (single-pass)
Granular Recovery for Virtualized Applications

Agent for Windows within VM enables granular object recovery

Single-pass, image backup

Granular application and file/folder objects

Virtual Host with Application Server VMs

Backup Exec Server

Restore granular Exchange, SQL, SharePoint, and Active Directory Data in Seconds:
- Individual Mailboxes
- Emails
- Private or Public Folders
- Calendar Items
- SharePoint Documents
- User Accounts or Attributes
- SQL Databases
- And More...
Why Backup Exec?
Powerful, Flexible and Easy To Use

Reduce complexity, save time & money
- Single solution for virtual and physical
- Storage agnostic – disk, tape and cloud
- Centralized management

Meet backup windows & recovery time SLAs
- Up to 100% faster backups
- Single-pass backup, all recovery options
- Built-in disaster recovery
- Physical to virtual conversions

Easily manage growing data volumes
- Source, target and OST appliance global deduplication across all backup jobs
- Integrated archiving
- Change block tracking
How to Upgrade and Buy

Backup Exec General Availability

- Launch/Announced: **June 2, 2014**
- Backup Exec 2014 Family General Availability: **June 2, 2014**

Backup Exec Portfolio

- Backup Exec 2014
- Backup Exec 2014 V-Ray Edition
- Backup Exec 2014 Capacity Edition
- Backup Exec 3600 Appliance Series
- Backup Exec 2014 Small Business Edition
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Backup Exec 2014

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