Data Sheet: Data Protection

Symantec NetBackup™ 7—What's New and Version Comparison Matrix

NetBackup 7 allows customers to standardize backup and recovery operations across physical and virtual environments with fewer resources and less risk by providing a single console for global operations and simplifying the use of advanced technologies like deduplication and replication.
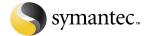
New features and benefits

Integrated deduplication

Feature	Description/Benefit
NetBackup client deduplication	Deduplicates data at the source via the NetBackup client so only unique data segments are moved across the LAN. Makes backups faster as duplicate data is eliminated. Since data is deduplicated at the source, WAN/LAN bandwidth can also be dramatically reduced. In addition, as there is less data to back up, back-end storage usage can be reduced.
NetBackup media server deduplication	Allows for the deduplication of streaming data on the NetBackup media server. Hardware costs can be decreased because existing backup infrastructure can be leveraged, and back-end storage usage can be reduced because only unique data is protected. Manage centrally from NetBackup and leverage an easy-to-use wizard for simplified installation and configuration.

Centralized management and reporting across distributed backup environments

Feature	Description/Benefit
OpsCenter	Single deployment, configuration, and Web user interface for monitoring, alerting, and active management across one or more backup domains. Integrated and included at no extra charge with NetBackup 7. Includes point-and-click operational reporting across multiple Symantec data protection products including NetBackup, Symantec Backup Exec™, Symantec NetBackup PureDisk™, and Symantec Enterprise Vault™. A direct upgrade from NetBackup Operations Manager (NOM) is available at no extra charge.
OpsCenter Analytics	Historical, business-context reporting including SLA management, chargeback, and predictive forecasting across NetBackup, PureDisk, Backup Exec, Enterprise Vault, and non-Symantec backup products including EMC® NetWorker and IBM® Tivoli Storage Manager. Can be easily enabled from OpsCenter by just entering a license key. No separate infrastructure is required. A direct upgrade from Veritas™ Backup Reporter from Symantec is also available.

Simple and comprehensive protection for virtual environments

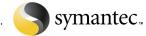| Feature	Description/Benefit
VMware™ vSphere 4.0 vStorage API	NetBackup backs up the snapshot directly from the ESX server so VMware Consolidated Backup (VCB) is no longer required. This allows for faster backups because the virtual machine copy no longer needs to be staged to a VCB proxy server. Because a dedicated proxy server is no longer required, hardware costs can be reduced and backup speed improved.
VMware vSphere block-level incremental backup support	Transfers only data blocks that have changed since the previous full or incremental backup, which helps make backups faster and shortens the backup window.
NetBackup granular file recovery from a VMware block-level backup	Whether the restore request is based on a full, differential, or cumulative block-level backup, individual files can be instantly searched for and restored from any storage destination, including disk, tape, VTL, or deduplication target.
Tighter vCenter integration	The following identifiers and attributes will be available when configuring a NetBackup policy: VMware hostname, display name, UUID, IP address, virtual center, data center, ESX platform, etc.
Enhanced Microsoft® Hyper-V support	File-level incremental backups of Hyper-V virtual machines (Windows® only) are now possible with NetBackup 7.

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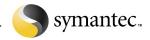| Hyper-V™ incremental and off-host backup support	Market-leading incremental backup of Hyper-V makes backups faster and more efficient because less data needs to be backed up, and off-host backup reduces host impact.
New virtual machine recovery wizard	Simplifies the process of performing a direct virtual machine recovery or redirected virtual machine recovery.

Application protection and recovery features

Feature	Description/Benefit
NetBackup RealTime live replication	Live block-level IP-based replication to protect applications for disaster recovery purposes.
Free replication of the NetBackup catalog	For NetBackup customers who want to leverage block-level IP replication of the NetBackup catalog for disaster recovery purposes, there is no extra charge. For easy access, the NetBackup RealTime and the NetBackup 7 media kits ship together or are available for download.
NetBackup for Oracle® cloning support	A new, simplified method of cloning, or duplicating, an Oracle database from an existing backup created using Oracle RMAN and the NetBackup for Oracle Agent. It is administered centrally from OpsCenter to help increase success rates and decrease the time otherwise required to create a cloned database.
Enterprise Vault agent enhancements	Improved Enterprise Vault agent reduces configuration time and automatically detects servers and applications that need protecting. The agent will discover the Enterprise Vault topology and identify the components (index and vault store partition locations as well as SQL databases) that need to be backed up. Includes support for Enterprise Vault 8.
Microsoft Exchange™ 2010 support	Support for Exchange 2010 in a stand-alone and a Database Availability Group (DAG) configuration. So NetBackup can automatically detect the Microsoft DAG and configure and execute backups and recovery with minimal impact on the active host. This builds upon the already existing granular recovery capabilities available in NetBackup 6.5.3.
Improved SharePoint granular recovery	Builds upon the granular recovery capabilities from NetBackup 6.5.4 by adding the ability to recover SharePoint sites and sub-sites, entire lists (calendars, tasks, etc.), any item(s) from a list, and any version of a file, as well as the ability to recover files to a folder on disk.
Numerous improvements to Windows install	Simplified deployment with improved scalability of the NetBackup client and server software on Windows platforms.
Windows 7 and Windows 2008 R2 server support	Leverage the very latest Windows release with NetBackup environments.

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NetBackup Version Comparison Matrix

The following table provides a comparison of features of NetBackup versions from 5.x to 7.

NetBackup Version	5.x	6.0	6.5.x	7
Reporting and operational management	Separate, licensed add-on	Integrated, free—NetBackup Operations Manager (NOM)	Integrated, free NetBackup Operations Manager (NOM)	Integrated, free—OpsCenter (formerly NOM)
Business-context reporting for NetBackup, PureDisk, Backup Exec, and Enterprise Vault			Y—Requires Veritas Backup Reporter and separate server	Y—OpsCenter Analytics, no separate server required
Virtual machines (VM)				
Instant file recovery from image backup (VMware, Hyper-V)			Y	Y
Off-host and file-level incremental backup of an entire VM			Y—VMware only	Y—VMware and Hyper-V
Block-level incremental backup				Y—VMware (vStorage API)
Guided virtual machine restore				Y
Application and database protection				
Improved SharePoint granular recovery from database features			Y	Y
Exchange granular recovery from email backup	Y	Y	Y	Y
Exchange granular recovery from database backup			Y	Y
Active Directory® granular recovery			Y	Y
Oracle® cloning				Y
Scalability				
Hot catalog backup		Y	Y	Y
Live NetBackup catalog replication via NetBackup RealTime 7				Y
Automated media server failover			Y—disk only	Y—disk only
Disk backup				
Storage lifecycle policies			Y	Y
Integrated deduplication for physical and virtual servers			Y—media server only—requires separate NetBackup PureDisk server for dedupe storage	Y—integrated client and media server, no separate server required
OpenStorage API			Y	Y
Encryption				
Client-based encryption	Y	Y	Y	Y
Media server encryption option (MSEO)		Y	Y	Y
Key management service (KMS)			Y	Y
Tape-based support	Y	Y	Y	Y
Virtual Tape Library direct to tape			Y	Y
Installation and deployment				
Simplified Windows deployment				Y

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