

# Veritas NetBackup™ 6.5 Options

The Veritas NetBackup Platform — Next-Generation Data Protection

## Overview

Veritas NetBackup provides a comprehensive selection of innovative options to aid in customizing your backup and recovery environment with tape, disk, or a combination of both. Environments can be customized to better utilize disk capacity, leverage specific architectures such as storage area networks (SAN) or network-attached storage (NAS), enable better disaster recovery practices, or add a new level of data security for tapes being taken offsite.

## Innovative options unlock the power of disk

Veritas NetBackup delivers the ultimate in choice when it comes to unlocking the power of disk-based data protection. Whether you want to share disk in a SAN, leverage deduplication, or add protection for desktop or laptop systems to an overall protection plan for your environment, Veritas NetBackup can make it all happen from one management console.

## NetBackup Disk Options

The NetBackup disk options deliver advanced features for high-performance backup.

- PureDisk Deduplication Option
- Standard and Enterprise Disk
  - OpenStorage (OST)
  - Virtual Tape Features
- RealTime Protection
- Desktop and Laptop Option

**PureDisk Deduplication Option** — Enable data deduplication across Veritas NetBackup clients and

backup only the unique data to standard disk. The result is elimination of redundant data and ultimately less data stored on disk. Some key benefits include:

- **Reduced disaster recovery cost** — Cost-efficiently replicate data to another data center, saving on tape shipping and storage
- **Enhanced high availability** — Use online failover for PureDisk environments with multiple servers, and ensure that backup and recovery operations can continue in the face of hardware failure.
- **Scalability** — Protection for up to a petabyte of data in one PureDisk storage pool<sup>1</sup>

PureDisk Deduplication Option Backup Throughput			
# of PureDisk Nodes	# of NBU Media Servers	Usable Capacity	Maximum Throughput
1	2	16TB	2.5TB/Hr
2	2	32TB	2.8TB/Hr
4	4	64TB	3.5TB/Hr

Assumes multi-stream NBU backups  
 Backup data set consisting of typical enterprise mix (file and folder, databases, mail)  
 Best possible performance achieved over 10GigE Ethernet  
 Hard drives configured in a RAID 6 configuration

**Standard and Enterprise Disk Options** — Included in these options are NetBackup's support for Virtual Tape Libraries and OpenStorage Technology (OST), which includes deduplication from 3rd party storage solutions.

**Enterprise Disk Foundation** — Some additional features are enabled when disk or tape-based library options are purchased. They are summarized as follows:

- **Storage lifecycle policies** — These allow customers to

1. Assumes a standard 10x reduction of data with 100 TB max capacity.

define separate destinations and retention times for backup data in one template that can be used across many policies

- **Media Server load balancing** — This capability delivers the high availability and dynamic capacity optimization of Veritas NetBackup Media Servers
- **Disk capacity management** — Intelligently manage shared disk pools for better optimization and reliability

**OpenStorage Features** — Back up your data to intelligent disk appliances through a unique NetBackup API. Veritas NetBackup manages the backup through these devices and also takes advantage of the unique capabilities of each device, such as deduplication and replication. A number of Symantec Technology Enabled Program (STEP) partners are participating and have brought unique solutions to the market. Some key benefits include:

- **Fully leveraged intelligent disk appliances** — Take advantage of high-speed backup and recovery over a Fibre Channel or IP connection, along with disk sharing, virtualization, and deduplication technologies
- **Enhanced disaster recovery** — Fully leverage advanced features such as backup image replication between multiple data centers, eliminating the need to ship, encrypt, or store tapes
- **Integrated solutions** — Natively integrate intelligent disk appliances with NetBackup to deliver a seamless solution with additional functionality

**Virtual Tape Features** — This option enables the use of virtual tape devices with NetBackup. With NetBackup 6.5, new enhancements deliver awareness of the duplication of

backup images, enabling the virtual tape library (VTL) to move the data from virtual tape to physical tape or another VTL device under the control of Veritas NetBackup. Some key benefits include:

- **Media Management** — Leverage NetBackup's powerful media management capabilities just like a standard tape drive
- **Enhanced functionality** — Create physical tape copies of virtual tape backups

**RealTime Protection Features** — Provides disk-based continuous data protection to dramatically reduce data loss and recovery times of critical applications, helping organizations meet even the most demanding recovery objectives. With its scalable off-host architecture, RealTime eliminates the impact that backups normally have on production applications. RealTime seamlessly integrates with NetBackup to provide easy administration, including storage lifecycle policies and application intelligence to ensure transactional consistency for applications like Oracle® and Microsoft Exchange.

- **Continuous data protection** — Eliminates potential data loss by tracking and protecting all changes to application data
- **Fast and simple recovery** — NetBackup recovery operations allow fast recovery from disk-based images
- **Integrated off-host backups** — Help avoid application performance impact during backup cycles with NetBackup managed off-host backups directly from the RealTime server

**Desktop and Laptop Option** — This option provides

continuous disk-based protection and automated file protection for desktops and laptops, whether on- or offline. Files can be backed up continuously, on a schedule, or manually. Some key benefits include:

- **Offline backup and restore** — When offline, files will be backed up to a local folder. When a connection is restored, data will be moved from a local file to the network share
- **Flexible user restore** — Users can easily find and restore their own data wherever and whenever they need it, saving users' and IT administrators' time
- **Decreased total cost of ownership** — Use the existing network infrastructure to protect and synchronize files between multiple machines

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### Options to fully leverage tape environments

Veritas NetBackup offers unparalleled media management and control of the overall tape environment, including tape library and drive sharing capability, encryption of tapes, and support for tape within a variety of storage network architectures.

**Shared Storage Option** — Share tape drives across Veritas NetBackup Media Servers and a SAN for enhanced performance and deliver a significant return on investment for tape drive and library hardware. Some key benefits include:

- **Minimized backup costs** — Increase tape drive utilization and lower the total number of drives required
- **Rapid deployment** — Graphical wizards quickly discover and configure shared tape drives
- **Increased fault tolerance** — Access additional tape

resources in the event of a drive or network failure; includes support for multiple paths to tape drives

### **Network Data Management Protocol Option (NDMP)** —

Provide reliable, high-performing backup and recovery services for NDMP-enabled NAS to local attached tape, tape attached to another NDMP-compliant NAS device, or to an existing Veritas NetBackup Media Server. Some key benefits include:

- **Optimized NAS environments** — Create point-in-time snapshots of data on an NDMP-enabled NAS device and leverage the Shared Storage Option to share tape drives between NAS devices and Veritas NetBackup Media Servers
- **Decreased performance impact** — Support for Direct Access Recovery greatly reduces the time to restore a single file from tape-resident backup images
- **Simplified setup** — A wizard-driven device configurator reduces the complexity of discovering and configuring NDMP-attached tape resources

**Media Server Encryption Option (MSEO)** — Help ensure that tapes being transported offsite cannot be read in the event they are lost, mishandled, or stolen. MSEO provides maximum flexibility and performance by providing parallelized and selectable encryption and compression and “set it and forget it” key management. Some key benefits include:

- **Easier management and control** — Encrypt within the Veritas NetBackup policy, eliminating a separate process or an extra dedicated device to manage
- **Maximum flexibility** — Choose what data you want to

encrypt and then choose the appropriate compression and encryption strength (AES 128-bit or AES 256-bit)

- **Support for most common backup configurations** — Includes support for disk staging to tape, the creation of tape copies for offsite purposes, and the backup of NAS devices (via NDMP)

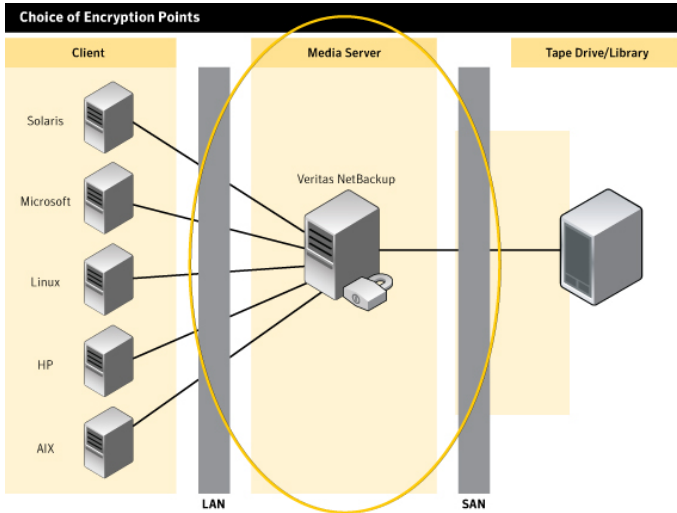


Figure 1. The Media Server Encryption Option encrypts at the Veritas NetBackup Media Server, which helps avoid impact to client operations.

\*Works with Storage Lifecycle Policies only.

**Vault Option** — Keep mission-critical data safely offsite in the event of a disaster by automating the complex and tedious process of backup duplication and offsite media management. Some key benefits include:

- **Increased efficiency** — Automate and track the movement of backup tapes to and from an offsite storage facility
- **Simplified duplication tasks** — The Option provides necessary redundancy in case the primary backup tape is

lost or destroyed, allowing for one copy to be kept onsite and another offsite

- **Manual ejection of tapes eliminated** — Tape ejection is handled automatically based on profiles that determine which tapes should be sent offsite each day

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