

Symantec NetBackup™ 7 Options

Complete protection for your information-driven enterprise

Overview

Symantec 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 (SANs) or network-attached storage (NAS), enable better disaster recovery practices, or add a new level of data security for tapes being taken offsite.

Customers with licensed disk or tape options gain access to additional features that can simplify the management of backup policies, improve the speed of disk-based backups, and improve backup server utilization. They are summarized as follows:

Storage lifecycle policies—Automate the backup and duplication process, ensuring that all the necessary copies of a backup are created in the correct locations with the correct retention periods but without the need to create separate duplication jobs

Media server load balancing—Automatically re-directs jobs to different backup/media servers in a group based on existing server load conditions (for example, CPU and memory utilization)

Innovative NetBackup Disk Options unlock the power of disk

NetBackup delivers the ultimate in choice when it comes to unlocking the power of disk, including the following separately licensed options that deliver additional features:

- NetBackup Deduplication Option
- Enterprise Disk Option

- NetBackup RealTime

NetBackup Deduplication Option

Allows NetBackup 7 customers to use integrated data deduplication and replication features. This option allows customers to perform deduplication at the source with client deduplication, or to perform the equivalent of target-based deduplication by using the NetBackup media server.

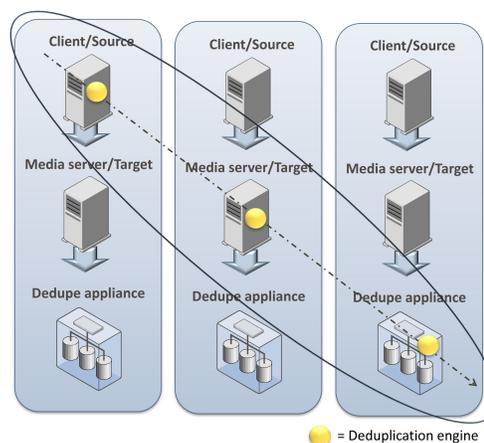


Figure 1: NetBackup Duplication allows you to choose your desired duplication point--source, target or integration with appliances via NetBackup OpenStorage API.

Customers can install and configure deduplication and also optimized duplication of images (via replication) from the NetBackup console. Some key benefits include:

Client deduplication at the source

- Reduce backup infrastructure requirements with deduplication at the source
- Move up to 99% less data for faster backups
- Use with any existing NetBackup client

Media server deduplication

- A scalable deduplication engine that can live in one or more NetBackup servers
- Configure disk target with a wizard and no additional server hardware
- Reduce the size of backup images by up to 80%¹
- Use fewer servers with up to 32 TB of dedupe storage per NetBackup server
- Compatible with existing Symantec NetBackup PureDisk™ storage targets

Enterprise Disk Option

Included in this option is support for third-party deduplication devices such as virtual tape libraries (VTLs) and OpenStorage storage solutions from Symantec partners.

OpenStorage

Back up your data to third-party disk appliances that support a unique NetBackup API called OpenStorage. With OpenStorage, NetBackup can better manage operations through these devices and take 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

Virtual Tape Option

This enables the use of virtual tape devices (that is, VTLs) with NetBackup. Some key benefits include:

- **Media management**—Leverage NetBackup's powerful media management capabilities just like a standard tape drive
- **Enhanced functionality**—Use NetBackup to create physical tape copies of virtual tapes (requires supporting VTL capability)

NetBackup RealTime²

Provides disk-based continuous data protection (CDP) and live IP-based replication to dramatically reduce data loss and recovery times of critical applications, including for disaster recovery, NetBackup RealTime can perform CDP and replication across any application and storage array while being integrated with NetBackup for specific applications agents. Can be purchased as an option to NetBackup or as standalone.

- **Continuous data protection**—Eliminates backup windows and enables any point-in-time recovery.
- **Disaster recovery using IP-based replication**—Replicate between different storage tiers or vendors to remove the costs, management overhead, and risks of shipping tape between locations.
- **Integration with NetBackup**—For off-host protection using NetBackup application agents and a single interface for all types of protection – tape, deduplication, snapshots, CDP and replication.

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

2. For more information, please refer to the NetBackup RealTime data sheet.

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 time for both users and IT administrators
- **Decreased total cost of ownership**—Use the existing network infrastructure to protect and synchronize files between multiple machines

Options to fully leverage tape environments

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 NetBackup media servers and a SAN for enhanced performance and deliver a higher 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 (NDMP)

Option—Provide reliable, high-performing backup and recovery services for NDMP-enabled NAS to local attached tape, to tape attached to another NDMP-compliant NAS device, or to an existing 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 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 as well as "set it and forget it" key management. Some key benefits include:

- **Easier management and control**—Encrypt within the 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)

Data Sheet: Data Protection Symantec NetBackup™ 7 Options

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

More information

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About Symantec

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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