

Symantec NetBackup™ 5000 Appliance

A Scalable Deduplication Solution For the Enterprise. Symantec NetBackup 5000, powered by NetBackup PureDisk technology, is a complete backup solution that brings the benefits of NetBackup's deduplication technology in an easy to use appliance form factor.



Key benefits

- **Operational simplicity**—complete backup solution. Set up backups in a matter of minutes.
- **Flexible and scalable architecture**—up to 96 TB usable dedupe capacity. Protect up to a petabyte of data in one deployment.
- **Global deduplication**- leverage deduplication across multiple clients, across appliance nodes.
- **High performance**—Backup throughput of up to 4.3 TB/hour per node.
- **NetBackup integration**—Integration with NetBackup for scalable, load-balanced disk-backup for the data center.
- **Up to 10-50x reduction** in storage and 99 percent reduction in bandwidth consumption.

Symantec NetBackup 5000, powered by the NetBackup PureDisk™ deduplication technology, offers your organization a complete data deduplication solution that integrates with NetBackup and provides the critical features required to protect all your data. It reduces the size of

backups by up to 50x with a deduplication engine that can be deployed for storage reduction, using integration with NetBackup, or for bandwidth reduction using PureDisk clients. An open and flexible architecture allows you to easily scale the size of the solution to meet the changing needs of your environment.

Integrated source and target deduplication

Symantec NetBackup 5000 offers both source and target side deduplication in a single integrated solution. Source deduplication is built-in into the backup agents that are directly deployed on the client machines. Source deduplication eliminates duplicate backup data before transmission, thus allowing for better utilization of bandwidth and storage. The NetBackup 5000 appliance can also be used as a deduplicated storage target for NetBackup backups. Once set up, the appliance simply appears as a disk pool within NetBackup and can be controlled via NetBackup policies.

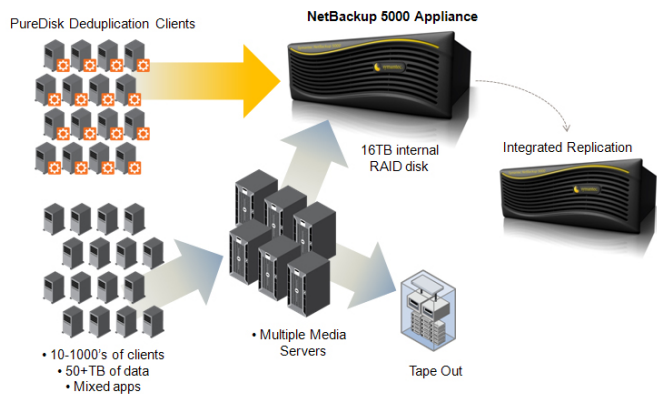
Storage and bandwidth efficient backups

With built-in global deduplication technology, Symantec NetBackup 5000 globally eliminates the backup of duplicate data offering storage savings of up to 50x. This allows for cost efficient long term retention of data on disk, resulting in faster and more reliable backup and recovery of data. The source deduplication option eliminates duplicate backup data at the source making the backups more bandwidth efficient, as well.

Ease of operation

The Symantec NetBackup 5000 appliance comes preinstalled with all necessary hardware and software components, and can be set up within minutes for production use. Day to day monitoring of backup operations also requires minimal admin intervention, allowing for lower setup and operational costs.

Basic Architecture



Multiple use cases—Single solution

Symantec NetBackup 5000 is ideal for many use-cases including remote office backups, virtual machine backups, and data center backups. The built-in source side deduplication allows bandwidth efficient centralized backups of remote offices while reducing dependence on tape and unskilled IT personnel at the remote offices. In virtual environments, NetBackup 5000 offers flexible backup options including guest or image level backup for both VMware® and Hyper-V™ environments with the option of recovering single files or entire VMDK images. Lastly, the NetBackup 5000 can be used both as a source side and target side deduplication tool for data center backups allowing for bandwidth and storage efficient backup of core data center servers.

Scalable capacity and performance

Symantec NetBackup 5000 can be scaled up in increments of 16TB to a maximum usable dedupe capacity of 96TB which can easily allow protection for up to a petabyte of source data. Performance in the data center can be scaled by adding additional nodes and/or media servers.

#of NBU 5000 Appliance Nodes	Logical Capacity	Max Raw Capacity	Max Usable Capacity
1	320-800 TB	24 TB	16 TB
2	640-1600 TB	48 TB	32 TB
3	960-2400 TB	72 TB	48 TB
4	1.28-3.2 PB	96 TB	64 TB
5	1.6-4 PB	120 TB	80 TB
6	1.96-4.8 PB	144 TB	96 TB

NetBackup 5000 Performance Throughput Per Node				
	1 Media Server	2 Media Servers	3 Media Servers	4 Media Servers
NBU 5000 (16 TB usable Capacity)	1.9 TB/hr	3 TB/hr	3.8 TB/hr	4.3 TB/hr

Platform and application support

NetBackup media server deduplication (target side deduplication)

This feature requires a minimum of NetBackup 6.5 media server with a deduplication plug-in running on one of the following operating systems - Microsoft® Windows, Red Hat® Enterprise Linux®, SUSE Linux®, or Solaris™.

- Any NetBackup client
- Any NetBackup application or database agent

Symantec NetBackup 5000 Client platform support

- Microsoft Windows - Windows Server 2000, Windows Server 2003, Windows Storage Server 2003
- Linux - Red Hat Enterprise Server and SUSE Linux Enterprise Server
- UNIX - IBM AIX (on Power 3, 4, 5), Solaris™ Operating System for SPARC, HP-UX on (PA-RISC and Itanium)
- Mac OS®

Symantec NetBackup 5000 application agent support

- Microsoft Exchange Server 2007

Data Sheet: Data Protection Symantec NetBackup™ 5000 Appliance

- Microsoft SQL 2005 Server
- Microsoft Exchange 2003 Server
- Microsoft SQL 2000 Server
- Oracle 10

Advanced backup and reporting across multiple backup applications

Available with NetBackup OpsCenter Analytics.

Hardware specifications

Symantec NetBackup 5000 – Key Specifications	
Total usable capacity per node	16 TB
Maximum usable capacity *	96 TB
Total raw capacity per node	24 TB
Maximum raw capacity *	144 TB
Power consumption	<550W
Operating temperature	<5C to +35C (+41F to +95F)

* Requires 6 nodes

Each node is 4U device, 2 Intel CPUs, 24 GB DDR2 memory, 24x 1 TB disks, systems disks configured in RAID 1, data disks in RAID 6, LSI disk management, 4 GB Ethernet ports, redundant power module, redundant fan modules, hot-pluggable disk modules and power entry modules.

Dimensions

Height- 6.9 inches, Width-17.3 inches, Depth- 27 inches

Weight

Fully Loaded System Weight = 43.1 Kg (95 lbs)

Power

100 V to 127 V; 200 V to 240 V, 47 Hz to 63 Hz

Operating temperature

+5C to +35C (+41F to +95F)

Non-Operating (transport) temperature

-30C to +60C (-22F to 140F)

Operating humidity

5% RH to 85% RH

Operating noise

65.8 dBA

Operating system

Symantec PureDisk Operating System 6.6

Management

Web-based UI

Expansion capabilities

Up to 96 TB usable in increments of 16TB

Safety and EMC Standard Compliance

UL 1950, UL 60950, LVD Directive 2006/95/EC, EN 60950, FCC, 47 CFR Part 15, Subpart B, EMC Directive 2004/108/EC, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3

More information

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Symantec helps organizations secure and manage their information-driven world with **high availability**, and **disaster recovery** solutions.

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