

Veritas NetBackup™ 5030 Appliance

A turnkey, end-to-end, global deduplication solution for the enterprise

VERITAS™



Overview

Veritas NetBackup™ 5030 Appliance offers your organization an end-to-end global data deduplication solution that integrates with NetBackup. Equipped with Veritas™ V-Ray technology, it provides unique visibility into virtual environments and speeds recovery and reduces storage costs. Content-aware deduplication reduces the size of backups by up to 50 times¹ and network bandwidth utilization by up to 99 percent,² so you can backup and replicate faster without expensive infrastructure upgrades. Pay once for deduplication and replicate securely to any number of targets. An open and flexible architecture allows you to easily scale out the size of the deduplication storage pool to meet the changing needs of your environment.

Key benefits

- **Operational simplicity**—Set up a deduplication storage pool in a matter of minutes.
- **Flexible scalable architecture**—Maximum capacity of 192 TB usable deduplicate storage. Protect petabytes of data in one deployment.
- **End-to-end global deduplication**—Leverage deduplication across physical hosts, virtual machines (VM), Network-Attached Storage (NAS) devices, and application hosts.
- **Ultimate virtual machine protection**—Built-in support for VMware® vSphere™ and Microsoft Hyper-V®.
- **NetBackup Accelerator**—Delivers full backups at the speed of incremental backups.
- **Client Direct capability**—Enables faster backups as production systems stream directly to the appliance, bypassing the media servers.

Storage and bandwidth efficient backups

The NetBackup 5030 Appliance offers both source- and target-side deduplication in a single, end-to-end integrated solution. Source deduplication is built into NetBackup clients

1. Based on full daily backups of enterprise data types.
2. Based on client-side deduplication.



NetBackup 5030 Appliance

and eliminates the need to move duplicate data across the wire; thereby making backups bandwidth efficient. The NetBackup 5030 Appliance can also be used as a deduplicated storage target for NetBackup backups, if source deduplication is not preferred on specific clients. Once set up, the appliance simply appears as a disk pool within the backup server and can be controlled from its administration console.

Ease of operation

NetBackup 5030 comes pre-installed 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 administrative intervention, allowing for lower setup and operational costs.

Scalable capacity and performance

NetBackup 5030 can scale out both storage capacity and processing performance by adding additional appliances while maintaining global deduplication across them. Capacity scales in increments of 32 TB to a maximum usable deduplication capacity of 192 TB which can easily allow protection for petabytes of backup images. Performance scales with each appliance as it contains its own processor, memory, and I/O connectivity. In addition, performance in the data center can be scaled by adding additional media servers or enabling Client Direct capability which allows production systems to stream directly to the appliance, bypassing the media servers.

Built-in replication with optimized deduplication

The backups in a NetBackup 5030 deduplication storage pool can be replicated to other compatible targets. The target devices could be in the same NetBackup domain (optimized duplication) or in a different NetBackup domain (Auto Image Replication (AIR)). In both cases, replication is bandwidth optimized; the source will not send data segments already present in the target deduplication pool thereby minimizing the bandwidth usage between sites. In contrast with traditional replication solutions where source and targets are in sync using remote mirror retention, NetBackup appliances use optimized duplication where retention levels can be controlled independently at both source and target. NetBackup 5230 can send replicated data to NetBackup 5000 series deduplication appliances through Fibre Channel as well. Encryption may also be used for replication at no additional cost.

AIR provides the ability to automatically manage the replication of a deduplicated backup image from one NetBackup master server domain to another. It enables fast and scalable disaster recovery because backup images are available for immediate recovery from any domain or global location, with minimized storage footprint and bandwidth impact.

Support for NetBackup environments

NetBackup 5030 Appliances can be used in NetBackup domains. With NetBackup software based media servers or NetBackup 5200 Series Backup Appliances, the NetBackup 5030 allows customers the ability to start small with a single NetBackup 5030 Appliance and grow their deduplication storage pool with additional appliances. As the number of appliances grows, a single global deduplication pool can be maintained to maximize storage efficiency.

Multiple use cases—single solution

The NetBackup 5030 Appliance is ideal for a broad range of use cases including data center protection, virtual machine backups, and expanding enterprise grade protection to remote/branch offices. At the data center, NetBackup 5030 Appliance brings end-to-end deduplication for physical and virtual environments. Replace and consolidate aging tape libraries, virtual tape libraries, and legacy target deduplication appliances with faster, content aware deduplication storage that supports Client Direct backups as well as NetBackup Accelerator enabled

backups. Confidently virtualize business critical applications while bringing down the backup windows with the use of V-Ray equipped unique visibility that speeds up virtual machine as well as granular recovery. The built-in, source side, deduplication allows bandwidth efficient centralized backups of remote offices while reducing dependence on tape and IT personnel at the remote offices.

Flexible connectivity options

NetBackup 5030 deduplication pools have both Ethernet and Fibre Channel support. Backups via Fibre Channel require a NetBackup 5200 Series Appliance to act as the media server. Replications from a deduplication pool hosted in NetBackup 5200 series or another NetBackup 5000 series based deduplication pool are also supported.

Whether you plan to upgrade your existing Fibre Channel infrastructure or migrate to all-Ethernet infrastructure, NetBackup 5030 provides investment protection of your current and future infrastructure.

Reliable hardware and storage platform

The NetBackup 5030 Appliance is built on enterprise-class hardware and features redundant power supplies, fan modules, and hot pluggable data disks.

Monitoring and reporting

Veritas™ AutoSupport

NetBackup 5030 Appliance provides monitoring of key hardware components such as CPU, disks, power supplies, fans, RAID groups, and host bus adapter (HBA) cards. Additionally, it notifies the administrator of faulty events. The hardware monitoring feature ensures that your backup environment is working at top efficiency, allowing you to anticipate needs before they become issues.

The Call Home feature keeps a watchful eye on a multitude of preset conditions and maintains a history of the product's health with Veritas™ AutoSupport which allows Veritas to offer proactive support at no additional charge. This hardware history is available to the Veritas™ Global Support Center to use while assisting with any support cases, providing useful context to resolve issues in a timely manner.

Advanced backup, deduplication, and restore reporting

NetBackup OpsCenter provides a central console for the alerting, monitoring, and reporting needs of the NetBackup platform. A rich suite of reports on success rates, recovery point objectives, and throughput help ensure organizations are meeting their enterprise service level agreements. In addition, advanced backup and deduplication reporting is available with NetBackup OpsCenter Analytics.

Hardware specifications

Each NetBackup 5030 Appliance is a 5U device consisting of a 2U controller or node, and a 3U storage shelf. It is available in two configurations depending on the port options:

- 4 X 1 Gb Ethernet ports and 2 X 10 Gb Ethernet ports
- 4 X 1 Gb Ethernet ports, 2 X 10 Gb Ethernet ports, and 4 X 8 Gb Fibre Channel ports

Platform and application support

All core NetBackup software agents and options can be utilized with NetBackup 5030 Appliance global deduplication pools. NetBackup agents optimize the performance of critical databases and applications.³

Veritas™ Business Critical Services

Veritas offers a portfolio of service options designed to keep Veritas technologies fully functional, up-to-date, and delivering maximum value. From value added services such as direct access to highly trained engineers to managed services that provide comprehensive 24 hour a day management of Veritas technologies, Veritas Business Critical Services offerings are highly customizable to suit unique IT environments and scalable across multiple products and physical sites. Visit <http://go.symantec.com/bcs> to learn how Veritas can help you maximize the value of your technology investments.

Performance

NetBackup 5030 delivers 26.4 TB/hour throughput.⁴

Warranty coverage

Three (3) years parts replacement and 90 days software.

Management

Web-based user interface and NetBackup Console.

Protocol standards followed

IPMI 2.0, SMBIOS 2.5, SAS 2.0a, ACPI rev 3, IP RFC0791

Safety and EMC standard compliance

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

Environmental specifications	NetBackup 5030	Storage shelf
Operating temperature (°F)	50 to 95	41 to 95
Storage temperature (°F)	-40 to 158	-40 to 158
Operating humidity (RH)	10 to 85%	10 to 85%
Operating altitude (ft)	100 to 9,842	100 to 9,842
Maximum noise (dBA)	70	72
Typical cooling (BTU/hr)	1,416	1,878
Maximum cooling (BTU/hr)	2,562	2,390

3. For more information, please refer to the NetBackup Clients and Agents data sheet and NetBackup Options data sheet.

4. Observed performance is based on 50 clients, 2 streams per client, 98 percent deduplication.

Technical specifications	NetBackup 5030	Storage shelf
Usable capacity per node (TB)	NA	32
Storage shelves per node(max)	1	NA
Maximum usable capacity with 6 nodes (TB)	NA	192
1 Gb Ethernet ports	4	NA
10 Gb Ethernet ports	2	NA
8 Gb Fibre Channel ports	up to 4	NA
Dimensions H x W x D (inches)	3.5 x 19.2 x 30.1	5.1 x 17.6 x 22.1
Maximum Weight (lb)	41.0	71.7
Floor Space (sq. ft)	3.53	2.70
Typical Power Consumption (Watts)	< 415	< 271
Maximum Power Consumption (Watts)	750	580
AC Voltage Range (Volts)	100 to 127, 200 to 240	100 to 127, 200 to 240
AC Frequency Range (Hz)	47 to 63	47 to 63
Ampere Rating (A)	7 (100V to 127V), 3.5 (200V to 240V)	7 (100V to 127V), 3.5 (200V to 240V)
Mean Time to Repair (hours)	< 1	< 1

More Information

Visit our website

www.veritas.com

About Veritas Technologies LLC

Veritas Technologies LLC enables organizations to harness the power of their information, with solutions designed to serve the world's largest and most complex heterogeneous environments. Veritas works with 86 percent of Fortune 500 companies today, improving data availability and revealing insights to drive competitive advantage.

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