

# Veritas NetBackup™ 5230 Appliance



A single-vendor, enterprise backup appliance that is ready to backup in minutes

## Overview

Veritas NetBackup™ 5230 Appliance is an enterprise backup appliance with expandable storage and intelligent end-to-end deduplication for physical and virtual environments. Only Veritas appliances deduplicate on both the client and target side. Equipped with Veritas™ V-Ray technology, it provides unique visibility into virtual environments that speeds recovery and reduces storage costs. Content-aware deduplication reduces the size of backups so you can store more data cost effectively and replicate faster.

## Product highlights

- **Suitable for any environment**—Starting at 4 TB and expandable up to 148 TB usable capacity, NetBackup 5230 is ideal for both remote offices and enterprise data centers.
- **Multiple functional roles**—Deploy as master server, media server, or both for a NetBackup domain.
- **Fits into existing NetBackup environments**—Easily expand or refresh existing NetBackup environments without disrupting operations.
- **Ultimate virtual machine protection**—Supports VMware® vSphere™ and Microsoft Hyper-V®, no proxy servers required.
- **Wide Area Network (WAN) optimization**—Up to 10x faster transfer rate for backups to cloud and replicating off-site.
- **NetBackup Accelerator**—Delivers traditional, full backups at the speed of incremental backups.
- **Simple and fast snapshot replication**—Accelerate snapshot replication management and granular file level recovery from any replicated snapshot image.
- **Operational simplicity**—Power up and walk through the installation wizard to start backing up in minutes.
- **Improve resource utilization**—Decrease backup storage up to 50 times and bandwidth consumption up to 99 percent.
- **Flexible deduplication options**—Deduplication at source or target; inline or post-process.
- **Dynamic storage**—Usable capacity can be any combination of up to 144 TB deduplication pool or 148 TB Advanced Disk pool (non-deduplicated storage).
- **Storage Area Network (SAN) client support**—High-speed streaming through Fibre Channel to NetBackup 5230.
- **Simple front-end TB licensing**—Pay once for deduplication and replicate securely to any number of targets.
- **Built-in replication**—Policy based replication powered by Veritas™ OpenStorage.
- **Auto Image Replication (AIR)**—Replicate backup images to a remote NetBackup domain for electronic vaulting and disaster recovery readiness.
- **Veritas™ Critical System Protection**—Protects against zero-day attacks and malicious insider threats.
- **Heterogeneous cloud gateway**—Serves as a gateway unit for sending backups to supported cloud storage vendors.
- **Secures in-flight and at-rest backup data**—Encryption may be configured for source and target deduplication.
- **Tape support**—Write to tape for long-term data retention.



NetBackup 5230 Appliance

### **Operational simplicity and easy integration**

NetBackup 5230 comes pre-installed with the latest NetBackup software and can be set up in a matter of minutes to create a new NetBackup deployment or integrate into existing NetBackup deployments. The appliance can be easily managed via an existing instance of the NetBackup OpsCenter management console. Veritas provides end-to-end technical support for the appliance, reducing operational overhead on IT teams.

### **Suitable for both data centers and remote offices**

NetBackup 5230, a 2U appliance starting with 4 TB usable capacity for deduplication, is ideal for remote offices. The appliance may also be deployed as a media server in large data centers to stream backups to enterprise storage devices supported by NetBackup OpenStorage (OST) Partners.

### **Protect up to 4,800 virtual machines with one appliance**

NetBackup 5230 provides end-to-end protection for vSphere virtual environments. Unlike other solutions, the NetBackup 5230 Appliance delivers off-host backups with no requirement for proxy servers thereby eliminating associated complexity, cost, and resource overhead. Powered by V-Ray technology, NetBackup 5230 automatically discovers and protects virtual machines. The unique V-Ray vision delivers the flexibility to recover entire virtual machines, individual files, full applications, and individual application objects from a single-pass backup. The intelligent deduplication engine can see into actual objects in the backup stream for superior deduplication across all virtual and physical machines in your environment. The award-winning unification allows for more standardization and consistent policies, reduced duplication of effort, eliminates redundant storage pools, and lowers licensing, training, and operational costs. Protect your virtual machines through deeper integration with VMware vStorage™ Application Programming Interfaces (APIs) for Data Protection (VADP), block level incremental backups, and application intelligence, all integrated in a turnkey appliance.

### **Intelligent deduplication for up to 36x faster backups**

Only Veritas provides purpose-built backup appliances with intelligent end-to-end deduplication. NetBackup 5230 has built-in ability to deduplicate data in the backup stream at any point from source to target storage. It provides the flexibility to switch the location of deduplication processing among source client, backup server, and target storage without affecting the overall deduplication rate. The result is up to 36x faster backups

than traditional target deduplication appliances. The intelligent deduplication engine sees into the data stream and accurately identifies files and object boundaries for efficient deduplication delivering up to 50x storage reduction and up to 99 percent bandwidth reduction for backups.

### **Full backups at the speed and cost of incrementals**

NetBackup 5230 tackles the challenges of backing up hundreds of millions of files, or performing thousands of backups simultaneously. With a single click from the NetBackup management console, NetBackup Accelerator can perform a full backup at the speed and cost of an incremental backup without sacrificing the fast recovery time associated with full backups. It can help meet ever more demanding backup and recovery SLAs.

### **Built-in WAN optimization for backups and replication**

Business continuity got easier and more efficient for the remote office with the NetBackup 5230. WAN optimization is built right into the appliance, allowing you to leverage current WAN infrastructure for backups to the cloud and replication to remote sites by delivering up to 10x faster transfer rate.

### **Critical System Protection to safeguard backups**

The risk to business critical data is the same whether the security for corporate information is compromised at the primary or backup storage. That is why NetBackup 5230 is equipped with Critical System Protection agent. This unmanaged agent enables Host Intrusion Detection System for granular level monitoring and auditing. If your environment is secured by Critical System Protection server, you also have the option to manage the embedded agent. This brings the capability to enable full Intrusion Prevention Service to proactively protect the NetBackup 5230 against zero-day attacks and malicious insider threats.

### **Simplify snapshot management and protection**

NetBackup 5230 integrates with a variety of different disk array- and software-based snapshot methods, including off-host backup and instant recovery. This simplifies and expedites the recovery of individual files and applications from a snapshot image without having to mount the entire image. Snapshots and replicas are now managed in the same NetBackup policy, catalog, and schedule interface as tape or any other type of streaming backup.

### **Built-in replication with optimized duplication**

The backups in NetBackup 5230 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). 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. Encryption may also be used for replication at no additional cost.

AIR automatically manages 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.

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### **NetBackup Storage Area Network (SAN) client support**

NetBackup 5230 may be configured as a Fibre Transport Media Server to stream backups through SAN for high-speed backups. This method is ideal for clients with large data sets that do not want to perform deduplication at the source, or backup environments with established SAN infrastructure for the backup traffic.

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### **Heterogeneous cloud gateway**

Backup to cloud storage providers with NetBackup 5230. It is the industry's first heterogeneous cloud gateway for backups. Whether it is AT&T™ Synaptic, Amazon® S3, or RackSpace®, NetBackup 5230 becomes your backup gateway with a few mouse clicks.

### **Tape support**

NetBackup 5230 provides a tape out option which is ideal for organizations that wish to use a hybrid approach for data protection consisting of disk, cloud, and tape backups. Backups may be directly streamed to tape or staged via deduplicate/non-deduplicate disk storage pool.

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### **Reliable hardware and storage platform**

NetBackup 5230 and optional storage shelves are built on enterprise class hardware, featuring redundant power supplies, fan modules, and hot pluggable data disks.

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### **Veritas™ AutoSupport**

NetBackup 5230 provides monitoring of key hardware components and notifies the administrator of faulty events. The hardware monitoring feature ensures 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. The 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.

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### **Platform and application support<sup>1</sup>**

All core NetBackup software agents can be utilized with the NetBackup 5230.

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

Technical specifications	NetBackup 5230	Storage shelf
Useable storage capacity (TB) <sup>2</sup>	4 or 14	24 or 36
Storage shelves (max)	4	NA
Maximum usable capacity (TB) <sup>3</sup>	148 TB	NA
1 Gb Ethernet ports	4	NA
10 Gb Ethernet ports	up to 4	NA
8 Gb Fibre Channel ports	up to 10	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)	52.0	71.7
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 ratings (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

## Performance

NetBackup 5230 delivers 39.9 TB/hour throughput.<sup>4</sup>

## Warranty coverage

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

## Management

Through existing NetBackup Graphical User Interface.

## Protocol standards followed

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

## Safety and EMC standard compliance

GB4943-2001, IEC 60950-1, UL 60950-1, FCC 47 CFR Part 15 Subpart A, EN 60950-1, EMC Directive 2004/108/EC, EN 55024: 1998+A1+A2, LVD Directive 2006/95/EC

Environmental specifications	NetBackup 5230	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	70
Typical cooling (BTU/hr)	1,416	924
Maximum cooling (BTU/hr)	2,562	1,980

## More Information

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<http://www.veritas.com>

## About Veritas Technologies Corporation

Veritas Technologies Corporation 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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2. Capacity values are calculated using Base2 (i.e. 1 TB = 1,099,511,627,776 bytes). Storage shelves are 23.65 TB and 35.50 TB, and are rounded up.  
3. Maximum capacity is based on NetBackup 5230-4 TB system with four (4)-36 TB storage shelves.  
4. Observed performance is based on 72 clients, 2 streams per client, 98 percent deduplication.