

## Optimized data protection with HPE StoreOnce System and Veritas NetBackup

As enterprises deal with accelerating data growth, they face several data management challenges: meeting stringent backup and recovery service-level agreements (SLAs), keeping up the desired recovery point objectives (RPOs) and recovery time objectives (RTOs) and simplifying and enhancing data protection across the enterprise environment. IT organizations are usually asked to meet these challenges with limited budgets and reduced resources, requiring a paradigm shift toward optimized data protection. As a leader in storage, Hewlett Packard Enterprise (HPE) has partnered with Veritas, a market leader in data management and data protection, to deliver innovative solutions that ensure complete data protection and meet SLAs, RPOs and RTOs.

### BREAKING DOWN THE BARRIERS TO DATA PROTECTION

IT is undergoing a transformation. Even as data grows at unprecedented rates, it is also being retained longer and accessed more often (and with more urgency). In this environment, many traditional backup and recovery methods are too slow and are unable to meet required SLAs for today's data centers. One common solution—adding more data protection devices to manage increasing volumes of data—only leads to system sprawl and increased management complexities.

Current data protection technologies have limitations such as incompatible technology silos, restricted scale and performance, untenable SLAs and backup failures and complex management. To address these limitations, HPE StoreOnce backup systems offer scale-out architecture and federated deduplication technology and Veritas NetBackup™ delivers breakthrough capabilities that provide greater visibility into your backup data. Both solutions are available in physical and virtual form factors, allowing a joint NetBackup and HPE StoreOnce solution to be deployed in the data center, remote office or cloud to enable automated, hands-free backups across the whole enterprise environment.

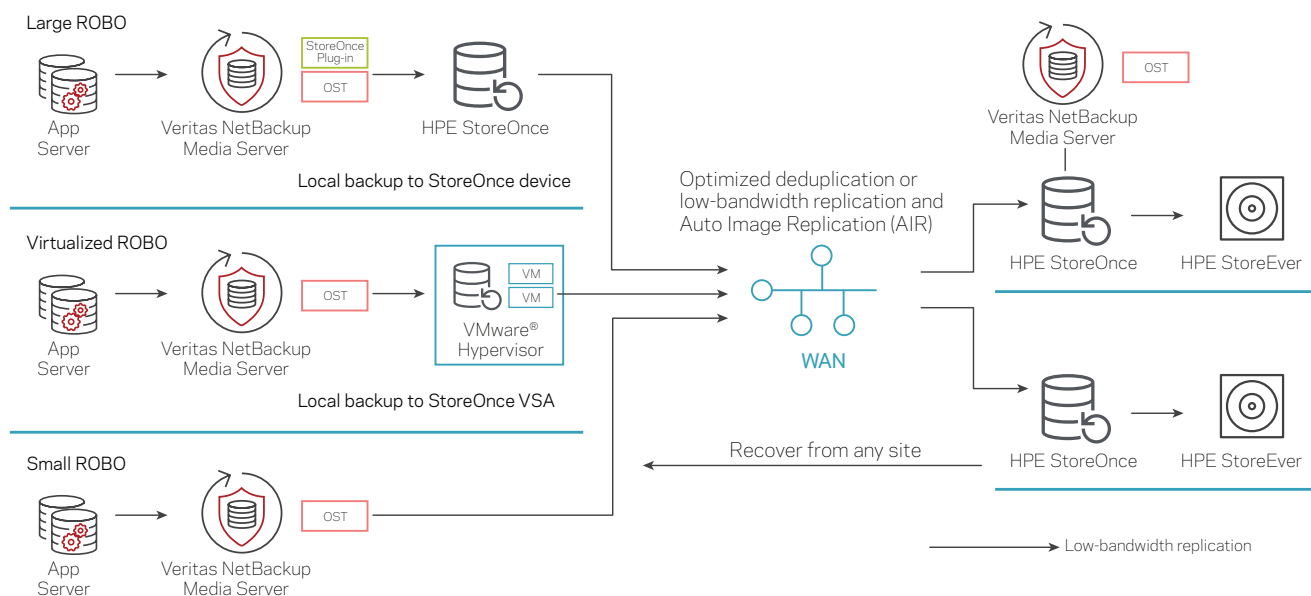


Figure 1. NetBackup and StoreOnce deliver complete data protection, from the remote office to enterprise data centers.

The HPE StoreOnce backup system is tightly integrated with Veritas NetBackup via the HPE StoreOnce Catalyst OST plug-in. This plug-in enables NetBackup-managed movement of deduplicated data across the enterprise, from one StoreOnce system to another. (See Figure 1.) The joint solution delivers comprehensive disaster recovery (DR) enabled by highly efficient data movement that is orchestrated by NetBackup and StoreOnce working together to provide optimized deduplication and a high degree of enterprise awareness.

A joint NetBackup and StoreOnce solution offers multiple advantages:

- **Better performance**—The NetBackup and HPE StoreOnce joint solution offers superior performance through tight integration. For example, NetBackup Accelerator enables significantly faster backups by backing up only changed blocks and eliminating all pre- and post-processing. The HPE StoreOnce Catalyst protocol embedded in the NetBackup OST plug-in also drives further improvements by distributing deduplication processing between NetBackup media servers and the StoreOnce system.
- **Simplified management**—Organizations can centrally control data movement across the enterprise—and across multiple HPE StoreOnce systems—from a single NetBackup console.
- **Optimized data movement**—Organizations can move data from one site to multiple sites, including the cloud of their choice, with HPE Cloud Bank Storage. They can also enable replication across low-bandwidth networks with bandwidth-reducing StoreOnce deduplication.

### TAKE THE RISK OUT OF MIGRATION

HPE StoreOnce Get Protected Guarantee (GPG) allows you to reduce backup capacity requirements by 95 percent when you migrate from your legacy backup system to any HPE StoreOnce solution—guaranteed!

## MAXIMIZE SPEED, UPTIME AND EFFICIENCY

Although it's important to back up data quickly, it's even more critical to be able to retrieve data quickly when faced with data loss or data corruption. The integrated Veritas NetBackup and HPE StoreOnce solution accomplishes both goals: HPE StoreOnce delivers backup performance of up to 184 TB/hr. and restore performance of up to 128 TB/hr. Along with superior backup performance, the joint Veritas and HPE solution offers other benefits:

- **Granular recovery**—The integrated solution includes support for [NetBackup Granular Recovery Technology \(GRT\)](#), which enables recovery of individual items and objects from your indexed backups without a staging area and without manual search and restore. This approach significantly accelerates recovery operations and improves user productivity.
- **Industry-leading performance**—The integrated solution supports NetBackup Accelerator, which provides the ability to perform full backups at the speed of incremental backups, but without the limitations of incremental backup chains. This integration significantly improves the effective throughput rate for backups, pushing them beyond 184 TB/hr. NetBackup Accelerator operating within the HPE StoreOnce system is an industry-best feature that enables organizations to meet aggressive backup windows.
- **High availability**—A StoreOnce backup system with redundant components enables NetBackup to continue uninterrupted even if the StoreOnce system loses a hard drive or power supply. The HPE StoreOnce G3 multi-node system provides further protection: the ability to survive the loss of a node and complete the backup or restore task. For HPE StoreOnce G4 systems, StoreOnce VSA can leverage hypervisor failover features for redundant, software-defined StoreOnce targets.
- **Increased storage and restore efficiency**—One of the major benefits of HPE StoreOnce is the ability to deliver huge reductions in storage space requirements (and associated savings) through use of high-efficiency deduplication and compression. Depending on the data being protected and the backup schedule, organizations can achieve space savings of up to 20X.

## SIMPLE, FLEXIBLE DISASTER RECOVERY

In today's highly competitive world, fast recovery is critical to keep your business running in the event of data loss or corruption. Enterprises have historically relied on tape-based, offsite vaulting as a primary mechanism for disaster recovery (DR). More recently, they prefer to have multiple copies of consistent backup images and typically find disk-based systems to be a superior solution when fast recovery is required. Where a comprehensive multi-site DR solution was previously not feasible because of cost and bandwidth constraints, it is now affordable with HPE StoreOnce backup systems and Veritas NetBackup. Automated creation and management of backup images for DR purposes can now be managed through a single management pane, giving NetBackup administrators greater control over data protection while significantly reducing management costs. It also provides:

- **Time savings and bandwidth reductions**—The joint Veritas NetBackup and HPE StoreOnce solution enables optimized deduplication of backup images between HPE StoreOnce systems within a single NetBackup domain, which may span multiple locations. This integrated feature enables the solution to transmit only new backup data to the second HPE StoreOnce system, saving time, reducing bandwidth and helping to lower overall data protection costs.
- **Cloud-enabled data protection**—HPE StoreOnce enables copying backup stores to object storage in the cloud with HPE Cloud Bank Storage. HPE StoreOnce integrates with NetBackup to provide higher levels of efficiency in data protection tasks. Through deduplication, HPE Cloud Bank reduces the cost of storing data in the cloud as well as the cost of writing and accessing cloud-stored backup data. The combination of cloud storage, HPE StoreOnce deduplication and integration with NetBackup via HPE's OST plug-in is ideal for long-term retention and off-site copies for disaster recovery.
- **Comprehensive disaster recovery**—The integrated solution includes support for Automatic Image Replication (AIR), a feature that enables automatic replication and management of backup copies at a second location in a separate NetBackup domain. In addition to creating copies of backup images at a remote site, AIR adds all the backup metadata into the remote backup catalog to enable full, ready-to-go recovery capabilities without having to build a new backup environment or import backup images. The integrated solution also supports Bare Metal Recovery (BMR), enabling users to recover their data and also perform system recoveries, even with dissimilar hardware configurations. Plus, the integrated solution includes WAN-optimized replication of deduplicated backup images and their associated backup catalog data across all recovery domains to further ensure comprehensive DR in complex environments.
- **Asymmetric retention**—HPE StoreOnce integration with NetBackup Storage Lifecycle Policies (SLPs) treats each backup image replica as a separate backup image, enabling NetBackup administrators to set asynchronous retention periods. NetBackup SLPs ensure that backup images are copied to the HPE StoreOnce systems in the correct locations and that each backup image on the HPE StoreOnce systems, regardless of location, has its own retention period. This is an important feature when trying to meet offsite DR requirements because NetBackup SLPs enable recovery regardless of what happens to the original copy. SLPs ensure maximum flexibility when it comes to creating copies of backups: they can be used to create local and remote copies or to make copies to dedup storage (HPE StoreOnce), disk and tape for long-term retention.
- **Protection for remote offices**—With the growing volume of data at remote sites, reliable data protection everywhere is an essential part of a comprehensive strategy. The joint NetBackup and StoreOnce solution is flexible in its form factor (physical or virtual appliance) and works in remote offices with a “no hardware” requirement. The integrated solution delivers automated backup and recovery for remote sites and enables administrators to easily schedule replication jobs and recover data from any site—all from a centralized console that eliminates the need for skilled IT staff at remote or branch offices. The integrated Veritas NetBackup and HPE StoreOnce solution also lets organizations use a single HPE StoreOnce system as a hub for multiple remote offices (up to 384 locations). The joint solution saves valuable time and reduces operating expenses, both of which are critically important for a remote office backup and recovery solution.
- **Industry-standard data security**—Protecting sensitive data, even on stolen or discarded disks or tape, is an absolute necessity. HPE StoreOnce implements industry-standard AES 256-bit encryption for data at rest. Backup data stored on HPE StoreOnce is FIPS 140-2 capable, providing security while also meeting regulatory compliance requirements. HPE StoreOnce also implements Secure Erase functionality that provides protection against recovery or reconstruction of deleted information. This secure data shredding meets stringent NIST SP 800-88 standards. With HPE data protection solutions, your data is always safe and secure.

### INVEST EFFECTIVELY WITH HPE SERVICES

Accelerate your technology return on investment (ROI), reduce implementation time and impact on backup environments and manage data more effectively with the HPE Backup and Recovery Solution service. [Installation and Startup services](#) help you properly install, integrate and deploy StoreOnce backup systems into your environment.

### LEARN MORE

- [veritas.com/hpe](https://veritas.com/hpe)
- [HPE StoreOnce](#)
- [StoreOnce Plug-in for NetBackup](#)
- [Veritas Netbackup 8](#)
- [NetBackup Virtual Data Protection](#)

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## ABOUT VERITAS TECHNOLOGIES LLC

Veritas Technologies empowers businesses of all sizes to discover the truth in information—their most important digital asset. Using the Veritas platform, customers can accelerate their digital transformation and solve pressing IT and business challenges including multi-cloud data management, data protection, storage optimization, compliance readiness and workload portability—with no cloud vendor lock-in. Eighty-six percent of Fortune 500 companies rely on Veritas today to reveal data insights that drive competitive advantage. Learn more at [www.veritas.com](http://www.veritas.com) or follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

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V0814 11/18