

Key Benefits

Seamless Integration with Symantec NetBackup 6.5

- > Operational simplicity
- > Media server load balancing
- > Intelligent disk capacity management
- > Storage lifecycle policies

NetBackup-Managed Replication

- > 99% bandwidth reduction
- > NetBackup-managed vaulting
- > Cost-efficient disaster recovery
- > Multi-site tape consolidation

Ultra-Safe Storage for Reliable Recovery

- > Continuous recovery verification
- > Continuous fault detection and healing

Symantec Veritas NetBackup (NBU) is one of the most pervasive data management tools used in medium to large size data centers across the world. It is a critical component of users' backup, recovery, and disaster preparedness strategies. NBU directs the operation of disk and tape media that stores typically five times more data than what can be found on the primary storage in the same data center. As data continues to grow unabated and as more attention is focused on a company's ability to recover from a disaster, new replication and disaster recovery (DR) solutions enabled by deduplication are becoming mandatory in many data management approaches.

The improved disaster recovery solutions must have a foundation of simplicity and flexibility and allow NetBackup administrators to easily manage and take full advantage of new capabilities in intelligent disk-based storage systems. Unfortunately, previous attempts have only focused on improving speed and reliability of backups, not improved DR.

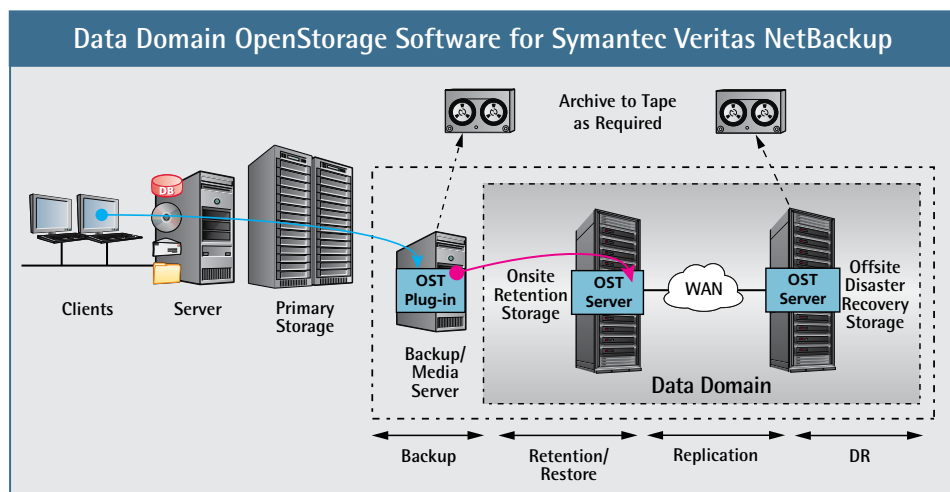
For example, Virtual Tape Libraries (VTLs) actually worsened the complexities and liabilities of tape-based data protection. VTL users are forced to provision imaginary tape drives, slots and cartridges for no added benefit. The inability of data management tools to handle multiple instances of the same barcode or image when making DR copies becomes a breaking point.

From the beginning, Data Domain has offered an alternative to VTL with a simple NFS/CIFS interface to its deduplication storage systems. Easily recognized as a 'disk storage unit', Data Domain systems are simple to integrate with NBU and allow users to enjoy the retention and recovery benefits of inline deduplication

as well as the offsite disaster recovery protection of replication over the WAN. The Data Domain OpenStorage (OST) software option will take full advantage of this existing model, simplify disaster recovery and serve as a solid foundation for additional integration between Symantec and Data Domain solutions over time.

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Data Domain OpenStorage (OST) software option consists of two parts: a software plug-in to the Symantec OpenStorage API that runs on the NetBackup Media Server and the Data Domain OpenStorage Server that runs on Data Domain deduplication storage systems. With OST, the NBU Media Server manages an optimized connection between one or more Data Domain systems. Operational simplicity is the cornerstone of the integration between Data Domain and Symantec NetBackup.



Data Domain OpenStorage software provides seamless integration between Data Domain deduplication systems and Symantec Veritas NetBackup and maintains catalog consistency as data is efficiently moved between sites.

Data Domain OpenStorage software does not require any of the artifacts of tape or tape emulation. Similar to the Data Domain NFS/CIFS implementation but unlike tape devices, an image can be simultaneously written to and read from Data Domain OST-enabled storage systems. Images written to Data Domain OST-enabled storage systems can be expired one at a time leading to improved storage efficiency over VTL-only implementations.

NetBackup media server tightly integrates with the OST software on the Data Domain system using the optimized protocol for performing backup, restore, and replication of data from NetBackup. This provides new levels of management simplicity and flexibility using Data Domain deduplication storage systems and Symantec NetBackup 6.5 software.

Data Domain OST software simplifies the management of disk pools and allows easy sharing and simultaneous use of those disk pools among multiple media servers. This facilitates media server load balancing and the use of the 'best' media servers for completing a particular backup job based on pre-configured policies.

NetBackup's lifecycle policies also allow administrators to fully automate the retention and duplication of images stored on Data Domain storage systems. Data Domain OST software is certified by Symantec and can be found in its Hardware Compatibility List (HCL).

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NetBackup-Managed Replication

With Data Domain OpenStorage software, administrators can control replication between multiple Data Domain systems from the NetBackup console. This paradigm is designed to be very familiar to NetBackup users such that replication of data over the WAN using Data Domain Replicator Software feels similar to vaulting a copy of the data to tape. All copies of the backup images are present and consistent in the NBU catalog which allows a single management console view to be available to the administrator.

Data Domain leverages its network-efficient replication technology to send the images from one system to one or more systems, when all systems are configured with Data Domain OpenStorage software. Using this optimized replication approach, the bandwidth required for replication is reduced by up to 99%. This dramatically reduces the time needed to create duplicate copies of backups for consolidation or disaster recovery purposes.

Resource usage on the media server is also reduced as it is no longer in the data path when duplicate copies of the backup are being created. This makes it very easy and cost efficient to recover data at remote sites. Since tape is no longer required at these sites, it is entirely practical to deploy Data Domain systems with Data Domain OpenStorage software as the key, foundational elements of a multi-site tape consolidation strategy.

Ultra-Safe Storage for Reliable Recovery

Data Domain OpenStorage-enabled systems enjoy the benefits of the Data Domain Data Invulnerability Architecture – continuous recovery verification, continuous fault detection and healing, and other resiliency features.

SPECIFICATIONS

Software

Data Domain Operating System 4.4 or later
Data Domain OpenStorage software 1.0 or later
Data Domain Replicator software
Symantec Veritas NetBackup 6.5 or later

Hardware

Data Domain Appliance, Gateway and DDX Series;
DD500 Series or higher; and DD120

Media Server

Solaris 9/10 (SPARC)
Red Hat Enterprise Linux 4 (x86, x86_64)
SuSE Linux Enterprise Server 9/10 (x86, x86_64)
Windows Server 2003 (x86, x86_64)