

Whitepaper

Use case: ETERNUS CS800 and Veritas® NetBackup®

Easy to use backup to disk with deduplication



Backup with ETERNUS CS800

The ETERNUS CS800 – a disk based backup appliance - provides deduplication without compromise, combining broad scalability and high performance to support the broadest range of IT environments today and into the future. Built on leading deduplication technology the ETERNUS CS800 appliance is a purpose-built solution that scales from 16 TB to 640 TB of usable capacity, and provides fast backup performance – achieving up to 13.9 TB/hour in conventional inline target mode.

ETERNUS CS800 gives IT departments' optimal investment protection with a combination of maximum flexibility and value. All models provide the option to use simultaneous NAS, VTL, and OST interfaces, making it easy for users to add or change interconnect choices as their backup environments evolve. To keep acquisition costs low now and in the future, the appliance base price includes all the software licenses, including AES 256-bit encrypted remote replication for automated DR protection and direct tape creation for integrated long-term retention.

Backup with Veritas NetBackup

Recognized as a market leader of enterprise backup and recovery software, Veritas NetBackup™ delivers breakthrough capabilities for virtualized systems that go well beyond what traditional backup practices can achieve. A single, intuitive management console reveals all backup and recovery activity, allowing consistent policies and service levels to be enforced across the enterprise.

ETERNUS – Business-Centric Storage

The most easy to use backup box integrates perfectly with enterprise class backup software

- ETERNUS CS800 is simpler to use, more efficient to operate and displays better results in deduplication when compared with software solutions in combination with standard disk systems.
- Veritas products are shaping the backup industry for decades, adapting to every industry shift and technology trend by delivering breakthrough solutions time after time, year after year, to keep your data safe.
- ETERNUS CS800 support for Veritas and its OpenStorage API (OST) allows to set policies in NetBackup, providing users with all the advantages of the deduplication, replication and direct tape links. The management of the entire process happens conveniently and automatically from the backup application, which also provides a central catalog for all the data.



More information

ETERNUS CS800 support of Veritas OST (Open Storage) API

In a nutshell:

Veritas OST allows NetBackup to seamlessly integrate with an ETERNUS CS800 disk backup system. Once installed and configured, NetBackup can manage the backups through the ETERNUS CS800 and take advantage of the system's capabilities such as

- Data deduplication
- Replication
- Direct tape creation

The value actually is that data movement for sending a backup copy to a remote DR site is handled directly between the ETERNUS CS800 devices and does not need to be routed through a media server. At the same time NetBackup gets informed when the operation is finished. By knowing about the existence of multiple copies you can select from which copy to restore best.

The setup to operate via OST interface with ETERNUS CS800 is quite easy and straight forward. Following processes are available via OST to increase backup performance and disaster protection:

■ Optimized Synthetic Full Backups

A synthetic backup is a backup in which content from a series of backups, starting with a full backup and followed by incremental backups, is combined into a new full backup.

The benefit of synthetic backups is to reduce the amount of data you need to transmit for full backups.

■ OST Optimized Duplication

ETERNUS CS800 has the capability to perform replication. NetBackup uses this capability to initiate an optimized duplication of backup images between these appliances. The duplication operation of NetBackup triggers the replication function in the OST disk appliance if both the source and destination volumes for the copy are OST LSUs.

■ Hybrid deduplication – SPEED mode

Normally deduplication takes place when the data arrives at the ETERNUS CS800 disk system. A special functionality, called SPEED mode, shifts the deduplication to a media server. The data is deduplicated there before being transferred to the ETERNUS CS800. This reduces the network requirements for the solution.

■ OST + PTT (Path-to-Tape)

Application Specific PTT is used to create physical tapes locally at the site that hosts the ETERNUS CS800 to which the data was originally backed up, namely the source site. Because OST allows the backup server to manage optimized duplication (replication) as well as tape creation, OST PTT enables the creation of tapes at a target site without requiring the presence of a server at that site. All you need is the target ETERNUS CS800 with an attached tape library. The backup application remains aware of all copies of the data and they may all be managed independently whether on the source ETERNUS CS800, the target ETERNUS CS800, or on tape.

■ NetBackup Accelerator

ETERNUS CS800 supports Veritas NetBackup Accelerator to significantly reduce the time and network bandwidth required for full backups of file systems and VMware. What's more, the full restore functionality for VMware environments is retained for single files, folders, virtual machines, databases and applications.

- ⇒ For more information please refer to:
- [Datasheet ETERNUS CS800 S7](#)
 - [White Paper: Technical Concepts of ETERNUS CS800](#)
 - [Other ETERNUS CS800 resources on the internet](#)