

# High-Speed, Disk-to-Disk-to-Tape

## With Sun StorageTek™ Enterprise Backup Software Disk Backup Option (EBS)



Increasing data volumes, rising application access requirements, and limited IT budgets—never before have enterprises been challenged to the extent they are today to fully protect data, reduce downtime, and lower TCO. Yet as this challenge intensifies, a shift has taken place in the storage arena that can deliver faster methods for performing backup and recovery, and increase storage ROI—backup to disk. There has been a significant decrease in the cost of disk storage allowing enterprises to consider backup to disk an attractive enhancement to tape-based data protection and as a means to better utilize tape storage investments.

### A complete solution

The Sun StorageTek™ Enterprise Backup Software (EBS) Disk Backup Option enables enterprises to fully leverage high-capacity, high-speed disk arrays to perform faster backup and recovery of storage assets, as well as increase performance and ROI of tape storage.

The Disk Backup Option delivers the full functionality of EBS when backing up to disk, including backup server and client platform support, scheduling, parallelism, full, incremental and differential backups, storage nodes, NDMP support, staging and cloning.

### Highlights

- Recover data at disk speed and dramatically reduce downtime costs
- High performance through simultaneous-access operations—backup, recover and clone at the same time
- Policy-based migration of data from disk to tape
- Reap the benefits of backing up multiple clients to a single file type device without reducing recovery performance
- Most restores take place within 48 hours of the backup, allowing you to keep the most important backups readily available
- Add tape drives on demand, enabling more data to be backed up in less time
- Shorten backup windows—direct file access for faster recovery

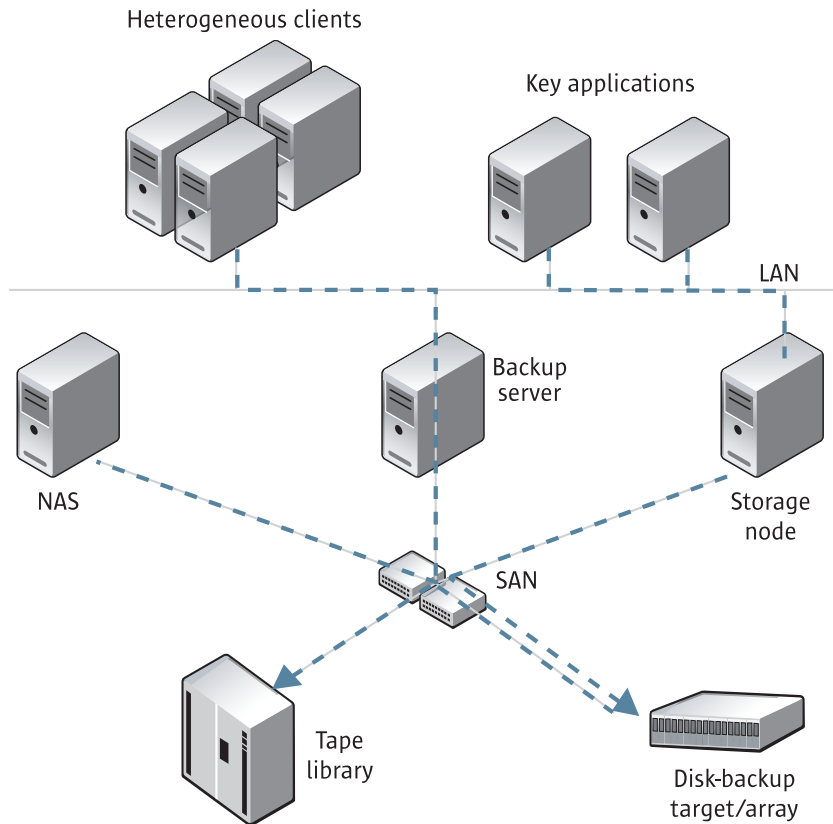


Figure 1: Backup-to-Disk Architecture

### Recover data faster

Eliminate delays waiting for tapes to be mounted and unmounted during recovery. With the StorageTek EBS Disk Backup Option, data is “nearline” and available when you need it. Our solution offers the benefits of device-level parallelism without sacrificing recovery performance. When recovering multiplexed data from a linear tape format, gaps exist between save set blocks, slowing down recovery speed. With the StorageTek EBS Disk Backup Option, “gaps” between blocks don’t exist!

### Shorten backup windows

Backup multiple clients at the write speeds of disk arrays (versus slower tape resources) using device level parallelism (writing data from multiple backup clients to the same “file type device” versus a tape drive). You can eliminate delays waiting for tapes to be mounted and unmounted during backup as well as specify multiple “file type devices” within the disk array (users create a “file type device” within the disk array to write data to).

### Perform automatic, high-speed staging and cloning to tape

**Cloning** – Data can be automatically copied to tape (or other disk devices) for disaster recovery purposes – and at tape streaming rates. Data is written in a contiguous (non-multiplexed) fashion, enabling data to be recovered quickly.

**Staging** – Most enterprises wish to store archival backup copies on removable tape media. The StorageTek EBS Disk Backup Option software enables you to leverage high-speed disk backups in your environment more efficiently. Upon reaching a pre-determined threshold, data is automatically copied to tape (and removed from disk). Data is written to tape in a linear manner at tape drive streaming rates.

### Learn More

For more details contact your local Sun representative or visit [sun.com/ebs](http://sun.com/ebs)

### Lower TCO of tape storage

The StorageTek EBS Disk Backup Option enables you to reduce wear and tear on expensive tape drives and cartridges. Incremental backups strain tape resources by frequently starting and stopping the tape drives while writing small amounts of data. In contrast, disks continue to spin regardless of the amount of data being written (or read). By performing incremental backups to disk (e.g. daily) and full backups to tape (e.g. weekends), customers can meet data protection and disaster recovery requirements, maximize ROI, and reduce storage costs.

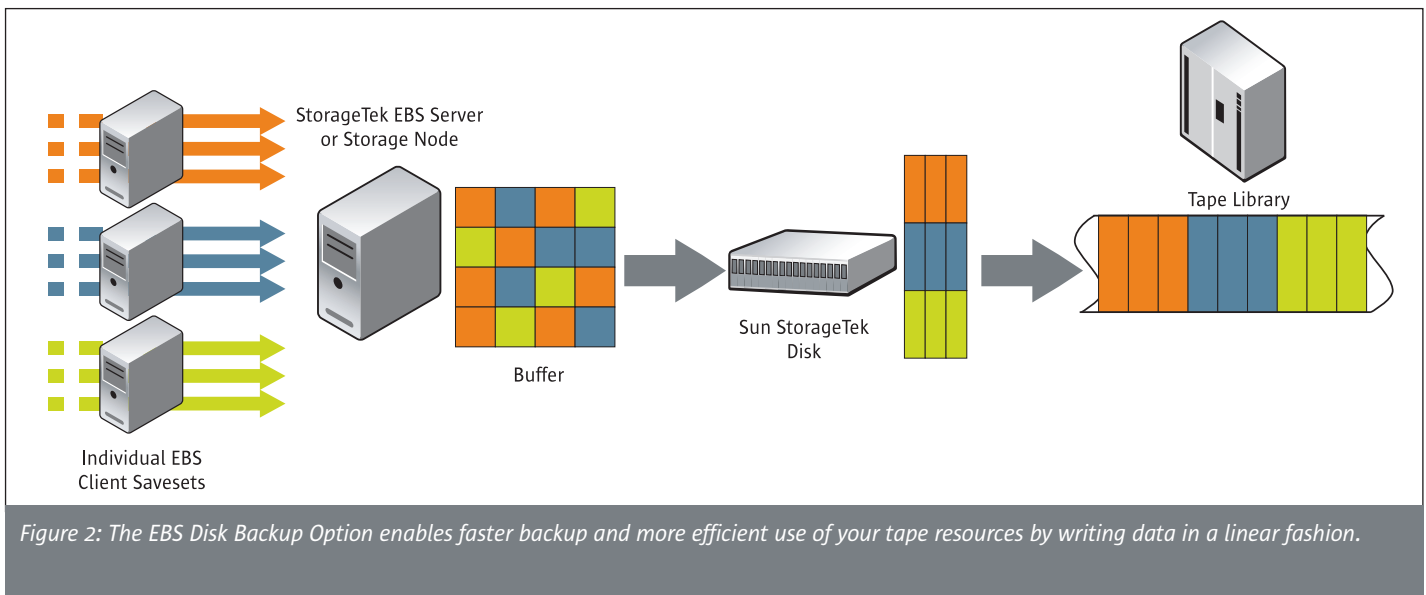


Figure 2: The EBS Disk Backup Option enables faster backup and more efficient use of your tape resources by writing data in a linear fashion.