



ExaGrid®

Meeting Data Security Requirements

ExaGrid is the only solution that satisfies all seven requirements of Cost-effective Disk-based Backup.

The 7 Requirements

1. Leverage existing backup applications and processes
2. Reduce nightly backup window
3. Enable fast and reliable restores utilizing a disk-based verified data approach
4. Eliminate tape management challenges through the use of disk and server technology
5. Provide efficiency through byte-level data de-duplication technology
6. Co-exist with existing tape strategy
7. Supplement offsite tapes with a live disk-based data repository solution that satisfies all seven requirements of cost-effective disk-based backup

Security is a Requirement

Securing backup data has become an absolute requirement for organizations of all sizes. New, sweeping government regulations such as HIPAA, GLBA, and Sarbanes-Oxley have placed more stringent requirements on organizations to secure and backup a wide range of data, from healthcare records and personal finance information for individuals to financial and confidential information for corporations.

Tape Backup – Cumbersome and Not Secure

For decades, companies have been backing up data onto magnetic tapes and then storing the long term history offsite. However, the process can be extremely cumbersome and insecure. Once a tape is made, it is placed in a carton and moved to an offsite location, often via an employee's personal vehicle, or in cases where the information is extremely sensitive, by bonded truck. But no matter what the transport method, tapes are often lost or even stolen. Organizations can use tape encryption to protect the confidentiality of the data, but using encryption products can be expensive, time-consuming and complex.

ExaGrid Disk-based Backup Eliminates Tape Issues and Enhances Security

Many companies are moving to disk-based backup to shorten backup windows and to gain faster and more reliable backups and restores. Because ExaGrid's disk-based backup solution sits in the same data center as application servers and primary storage, backup data is inherently secured by network and data center security, leveraging the same security that is used for the rest of the data and network components. Additionally, organizations can choose to use ExaGrid's disk-based backup system at a second site to supplement or eliminate offsite tapes and to avoid costly and complex encryption technology. The second site acts as a live disk-based repository, providing fast recovery in the event of a disaster, while also taking advantage of existing network and data center security. All data transfers between the primary site and the offsite disk-based system is over a secure, encrypted VPN.

ExaGrid's disk-based backup system incorporates data reduction, so only the changes are moved from backup to backup, and backups can be kept up to date offsite with WAN efficiency. Backup data changes about 2% from backup to backup, so only 1/50th of the data will be transmitted across the WAN.

ExaGrid Delivers Disk-based Backup and Enhanced Security

ExaGrid's disk-based backup system helps IT departments comply with new, stringent regulations surrounding data retention and security while reducing or even eliminating cumbersome and problematic tape.

ExaGrid provides faster and more reliable backups and restores, and because the system resides in a data center behind standard network and data center security, the data is as secure as an organization's primary data. When a system is deployed at a second site, data is transferred between sites via a secure encrypted VPN, eliminating the cost and complexity of encryption technology.

ExaGrid® Cost-Effective Disk-based Backup™

When faced with the challenges of meeting today's new, strict regulatory guidelines for data retention and security, ExaGrid's disk-based backup solution helps organizations meet compliance requirements while simplifying backup processes.

The ExaGrid System

ExaGrid is a cost effective and scalable disk-based backup solution that works with your existing backup application. ExaGrid combines high quality SATA drives, compression and byte-level data deduplication for fast and reliable backups and restores.

ExaGrid's innovative approach minimizes the amount of data to be stored by providing standard data compression for the most recent backups, along with byte-level data de-duplication for all previous backups. ExaGrid's byte-level data de-duplication technology stores changes from backup to backup instead of storing full file copies. This unique approach reduces the disk space required by up to 50 to 1, delivering unparalleled cost savings and performance at 30% the cost of standard SATA backup storage and about the price of tape backup.

The ExaGrid Advantage

Highest Performance for Backup, Restore and Tape Copy

- Fastest backup performance using post-processing so nothing interferes with the data writing directly to disk, at the speed of disk.
- Fastest restore and tape copy performance with Byte-level Data De-duplication which keeps the most recent backup in its whole form - no re-assembly from small blocks and large hash tables.

Scalable GRID Architecture

- ExaGrid provides plug and play growth in place so new systems virtualize together automatically with no splitting of data or losing de-duplication efficiency across separate systems.
- Performance scales with data growth because as storage capacity grows, corresponding processing and memory power scales in balance.
- Perfect for environments with up to 60 TBs of backup data.

Most Cost-Effective Solution

- Granular sizing options right-size to backup data.
- GRID scalability allows system to be matched to current data and added to when required – no need to over-buy up front.
- Roll out for critical data now and grow the system in the future.

Features

- Turnkey cost-effective disk-based backup solution with all hardware and software included.
- Unique up to 50 to 1 data de-duplication technology combined with last backup compression reduces the amount of disk space needed by as much as 50 to 1, resulting in a cost that is less than 30 percent of traditional SATA disk and about the price of tape backup.
- ExaGrid's byte-level data de-duplication technology provides a WAN efficiency on average of 50 to 1.
- Works with existing backup applications such as Backup Exec™, NetBackup, ARCserve, Galaxy, Networker, SQL Server Dump and others.
- Single primary site system allows for existing offsite tape strategy.
- Available second site system supplements offsite tape with a live disk-based data repository for long term offsite retention or disaster recovery.
- Management software notifies via SNMP or email that the repository is reaching capacity thresholds.
- RAID6 guards against up to two simultaneous disk failures.

Compliments of:



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