

# ExaGrid® EX13000-SEC

## Encrypted Disk-Based Backup



Storage Magazine Product of the Year  
Award: Gold Medal Winner

*"ExaGrid remains one of the few vendors thinking about how a system grows with the customer. Kudos on taking it to the next level."*



InfoWorld 100 Award Winner

*"Being recognized for one of the most innovative IT projects of the year by InfoWorld is a great honor for GreenBank; we are very proud to have received this for our use of ExaGrid's disk-based backup technology."*



Best Deployment Scenario Winner -  
Data Recovery

*"ExaGrid's disk-based backup solution saves Gardner Trucking an estimated \$200K 24 hours after installation."*

# Gartner

ExaGrid Named a Gartner "Cool Vendor" in Data Protection

*"Companies named 'Gartner Cool Vendors' are Innovative, Impactful, and Intriguing."*

### Protecting Data at Rest

Data security is a growing requirement for businesses of all sizes today. While many companies have invested heavily in methods to thwart network-based attacks and other virtual threats, most do not protect their business against potentially costly exposures of proprietary data resulting from a hard drive being physically stolen, misplaced, retired, or redeployed.

The Exagrid EX13000-SEC offers improved data security with enterprise-proven, industry-standard Self-Encrypting Drive (SED) technology. SEDs provide a high level of security for data-at-rest and can help reduce IT drive retirement costs in the data center. All data on the disk drive is encrypted automatically without any action required by users. Encryption and authentication keys are never accessible to outside systems, where they can be stolen. Unlike software-based encryption methods, SEDs typically have a better throughput rate, particularly during extensive read operations.

### The ExaGrid Appliance

The ExaGrid system is a cost-effective, scalable plug-and-play disk-based backup appliance. Its patented zone-level deduplication technology minimizes the amount of data to be stored by storing only the unique bytes across backups instead of storing the redundant data. This unique approach reduces the amount of disk space needed by a range of 10:1 to as high as 50:1 or more, delivering unparalleled performance in a cost-effective solution.

ExaGrid works seamlessly with all popular backup applications. With ExaGrid, backup jobs are sent directly from the backup application to the ExaGrid appliance for onsite disk-based backup. The backup application can create copies from the ExaGrid system directly to your existing tape library for offsite storage, or you can choose to deploy a second-site ExaGrid system at an alternate location to reduce or replace offsite tape.

With ExaGrid, you can preserve your existing investment and keep your current backup application and processes. Using ExaGrid is as simple as pointing your existing backup jobs at a NAS share on the ExaGrid appliance. The system scales as required by adding ExaGrid appliances, which virtualize into the GRID architecture automatically, adding capacity and processing power while acting and being managed as one unified system.

### 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 zone-level data deduplication which keeps the most recent backup in its whole form. No reassembly from small blocks and large hash tables is required.

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## Scalable GRID Architecture

- Performance scales and backup times are maintained with data growth, because complete ExaGrid appliances - including disk, processor, memory and network capacity - are added to the system.
- ExaGrid provides plug-and-play expansion, in that adding an additional ExaGrid appliance is as simple as plugging it in and letting ExaGrid's GRID software virtualize the pool of backup capacity. No splitting of data or loss of deduplication efficiency across separate systems occurs.
- ExaGrid eliminates the costly "forklift upgrades" associated with other disk backup systems. With ExaGrid, modular systems are easily combined in a virtualized GRID to smoothly scale up to 130TB full backups plus retention (320TB raw capacity).

## Most Cost-Effective and Flexible Solution with No "Forklift" Upgrades

- No need to over-buy storage capacity up front - modular systems can be easily combined in a virtualized GRID to smoothly scale up for larger capacities as needed with no painful "forklift" upgrades.
- EX13000 Series appliances allow full backups of 13TB with corresponding raw capacity of 32TB. They can be mixed and matched in multiple different configurations with up to ten servers combined into a single GRID configuration of up to 320TB raw capacity and allowing full backups of up to 130TB.

## Built-In Data Security

- The EX13000-SEC uses Seagate's Self-Encrypting Drive (SED) to ensure that data at rest is always encrypted with 128-bit AES and is never in the clear. All data, configuration settings, etc. are encrypted.
- Key management is seamless and performed via integration with many of the leading backup software packages.
- Drive theft protection - The drives cannot be read outside of the host system where encryption was enabled.
- System theft protection - System booting and access to data can be restricted with a password. This can be enabled as an option (no extra charge).

## Features

- Turnkey cost-effective disk-based backup solution with all hardware and software included.
- Unique zone-level deduplication technology reduces the amount of disk space needed by as much as 50:1.
- "InstantDR" capability keeps the most recent full backup at a customer's disaster recovery site in a complete, non-deduplicated form, ready for high-speed recovery. This provides for the fastest possible restore during a disaster recovery scenario. This unique capability is very different from competing solutions that have to reassemble the most recent backup from millions or billions of deduplicated chunks causing a much longer recovery time.
- Supports the following backup apps and utilities: Symantec Backup Exec, Symantec NetBackup, CommVault Simpana, CA ARCserve, IBM TSM, EMC NetWorker, HP Data Protector, LiteSpeed for SQL Server, Idera SQLsafe, Red Gate SQL Backup, Quest vRanger, Veeam Backup & Replication, VMware .vmdk files, IBM iSeries/AS400 (LaserVault UBD), POSIX-compliant TAR files, Oracle RMAN, and SQL Dump.
- Support for two-site or multi-site topologies to supplement or eliminate offsite tape with a live disk-based repository for long-term off-site 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.
- Scalable GRID computing architecture allows for growth and eliminates obsolescence. With ExaGrid's zone-level deduplication technology, an ExaGrid system can serve for years before capacity needs to be added.
- Plug-and-play expansion - easily scale from 1TB to 130TB full backups (3.5TB to 320TB raw capacity) without "forklift" upgrades by plugging in additional ExaGrid appliances and letting ExaGrid's GRID software do the rest. As one appliance reaches full utilization, capacity is automatically load-balanced across others.
- Single primary site system allows for existing offsite tape strategy if desired.