



# ExaGrid®

## Cost-Effective 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."*

### About ExaGrid

#### An Easy to Use Disk-Based Backup Appliance with Zone-Level Data Deduplication

ExaGrid is a cost-effective, scalable disk-based backup solution that replaces tape in your nightly backup process, enabling faster and more reliable backups at a price comparable to a new tape library. ExaGrid offers the only disk backup appliance with data deduplication purpose - built for backup that leverages a unique architecture optimized for performance, scalability and price

The ExaGrid system is a plug-and-play disk backup appliance that works with existing backup applications. ExaGrid's 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.

#### Replace Your Tape Library with the Lowest Cost Disk-Based Data Protection

Using ExaGrid's disk-based solution instead of tape can reduce an organization's backup window by 30% to 90%. A typical 12-hour backup window can be decreased to as little as four hours. ExaGrid increases the speed and reliability of your backups and also provides faster and more reliable restores. For off-site long-term retention or disaster recovery, ExaGrid supports the ability to transfer backup data to an installed system at a remote location to supplement or eliminate off-site tapes. ExaGrid supports both two-site as well as multi-site topologies where multiple locations can transfer backup data to a centralized site for disaster recovery protection. ExaGrid is extremely cost-effective at transferring backup data off-site because ExaGrid's zone-level deduplication technology only moves changes, requiring minimal WAN bandwidth. The costs associated with tape handling, shipment, and storage are significantly reduced or eliminated.

### The ExaGrid Appliance

The ExaGrid system is based on standard appliances that are shipped along with ExaGrid's unique software to deliver a complete turnkey solution for disk-based backup with data deduplication. The ExaGrid appliance is rack-mountable and uses standard components, including Intel quad-core Xeon processors, enterprise SATA drives, and Gigabit Ethernet connection(s).

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 off-site 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.



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## 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 re-assembly from small blocks and large hash tables is required.

### 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.
- Multiple EX Series appliances allow full backups of 1TB, 2TB, 3TB, 4TB, 5TB, 10TB, or 13TB with corresponding raw capacity of 3.5TB, 5.5TB, 9TB, 11TB, 13TB, 23TB, and 32TB, respectively. Any size appliance 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.

### Backup Aware Reporting

- Reports correlate backup jobs stored on the ExaGrid with the backup application providing great visibility into the status of the backup data.
- ExaGrid's disk-based backup appliance is the only product that shows deduplication ratio by backup job, allowing organizations to optimize the result of zone-level deduplication.

## 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 applications, utilities, and methods: Symantec Backup Exec, Symantec NetBackup, CommVault Simpana, CA ARCserve, EMC NetWorker, HP Data Protector, Quest vRanger Pro, Veeam Backup, VMware .vmdk files, POSIX-compliant TAR files, Oracle RMAN, and SQL Dump.
- Support for two-site or multi-site topologies to supplement or eliminate off-site 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.