



ExaGrid® and Quest vRanger Disk Backup for VMware Environments

SOLUTION BRIEF



ExaGrid EX13000E Named
"Best in Class"



ExaGrid Wins
"Best Value for the Money"



InfoWorld.com Awards ExaGrid ES
"Technology of the Year - 2013"



ExaGrid Named
"Disk Backup Champion"



ExaGrid Recognized as "Top Emerging
Vendor" in Customer Interest

With increasing pressure to spend less and become more efficient, IT organizations find it increasingly difficult to optimize data protection processes. Virtual server sprawl, explosive data growth, long backup times, increasing data retention requirements, and offsite disaster recovery are just some of the issues organizations are facing.

Quest vRanger and ExaGrid disk backup with data deduplication revolutionize how organizations back up and protect their VMware application and infrastructure data.

ExaGrid and Quest vRanger Solution Benefits

Quest vRanger and ExaGrid provide a highly efficient disk-based backup solution for your VMware environments, providing fast backups and efficient data storage and off-site replication for disaster recovery. Key benefits include:

Close Integration

Deploying the solution is simple and fast. Quest vRanger recognizes the ExaGrid system as a disk storage unit and performs backups that automatically store on the ExaGrid system.

Fast and Efficient High-Performance Backups

Employing Quest's patented ABM with CBT and incremental or differential backups in between full backups, vRanger quickly scans block maps for changed blocks while skipping unchanged and unallocated blocks. This significantly reduces the amount of backup data, minimizes backup time, and provides even faster and more efficient data deduplication in the ExaGrid appliance. In addition, Quest vRanger's multi-threaded, parallel processing capability and resource manager coupled with ExaGrid's fast zone-level data deduplication provides extremely fast and highly reliable backup and restore processes.

Quick and Easy Restores, with Disaster Recovery Flexibility and "Instant DR"

Both image-level and file-level VMware restores are supported. And with vRanger's native catalog, the solution makes even granular recovery processes fast and easy. Off-site tapes can also be eliminated by having a copy of your vRanger backups off-site on disk using data deduplication to efficiently transfer the data. This allows you to achieve faster and more reliable recoveries over the WAN in the event of a disaster. When combined with ExaGrid's "Instant DR" capability, which keeps the most recent full backup at your disaster recovery site in a complete, non-deduplicated form, disaster recovery is even faster.

Quest vRanger: The Leading Data Protection Solution for VMware Environments

Quest vRanger delivers a simple to use and cost effective data protection solution purpose-built for VMware environments. It is optimized for one-pass ESX(i) backup and replication with the following features:

VMware Ready™ Certification

Quest vRanger is the premier solution for protecting VMware virtual environments and is VMware Ready™ Certified for VMware vSphere 5.



ExaGrid and Quest vRanger

Simplicity

vRanger is simple to install and configure, and intuitive to use. It provides quick time to value and helps avoid increased software licensing and management costs associated with traditional agent-based data protection solutions.

High-Performance and Scalability

One vRanger installation provides distributed processing – the ability to run multiple jobs concurrently – across your entire ESX(i) environment. This reduces the impact on host operations and shrinks job windows.

Fast Backup and Restore Performance

Optimization

vRanger employs a resource manager that allows you to optimize performance for your infrastructure by fine tuning the number of vRanger jobs allowed to in run parallel on a LUN, repository, or ESX(i) host.

Space Saving Technology

vRanger takes advantage of Quest patented Active Block Mapping (ABM) with VMware Change Block Tracking (CBT) so it only protects changed active blocks and skips unallocated, deleted, and unchanged blocks. This further increases performance, relieves overhead from infrastructure resources, and dramatically reduces storage capacity needs.

VMware vCenter Integration

vRanger seamlessly integrates with vCenter so that backup jobs automatically refresh to stay current with new hosts and virtual machines as they are added. It also supports vMotion to follow virtual machines when they move from one host to another. This reduces administrative burdens and affords you peace of mind knowing your virtual machines are automatically protected.

Native Cataloging

The purpose of data protection – recovery – is fast and simple with vRanger. It includes a native catalog that indexes file metadata during the backup process so that searching and restoring across files, objects, and applications are immediately available when you need it.

Synthetic Recovery

vRanger keeps backup archives intact and uses synthetic recovery to speed restores without compromising backup images. This allows you to leverage incremental backups in between full backups while providing full recovery from only one cycle of archives.

ExaGrid: Simple, Quick, and Cost-Effective Disk-Based Backup

ExaGrid offers the only disk-based backup appliance with data deduplication that is purpose-built for backup and leverages a unique architecture optimized for performance, scalability, and price. ExaGrid offers the following critical features:

High Performance for Fast Backups and Fast Restores

Fastest backup performance using post-processing so nothing interferes with the data writing to disk, at the speed of the disk.
Fastest restore 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.