# Quantum

# vmPRO Software

Speed up and simplify backup and restores with the industry's only native backup application for virtual environments

**vmware READY**

Quantum vmPRO™ Software is a backup application for small businesses up to large enterprises that need to protect their VMs. vmPRO reduces the cost associated with VM backup, and makes it easier and faster to restore files and even entire VMs to return to operations quickly.

Unlike traditional backup applications and other backup applications designed for virtual environments, Quantum vmPRO Software backs up VMs in native VMware format. This enables users to restore or boot VMs in seconds without the use of a backup application, reduces virtual server and network usage by reducing VM image sizes before backing up those images to backup storage, and substantially reduces the cost of using traditional backup applications to back up virtual environments.

As more corporate applications and data sets move to virtual machines, IT organizations increasingly confront the problem of how to integrate VM protection into their established backup, DR, and retention processes. Most of the options usually offered have limitations. Backing up VMs as if they were physical servers can strain server and network resources, deploying VM-specific agents can be expensive, and adding new, VM-specific backup applications is complex, costly, and often lacks support for DR and long-term retention.

Quantum's vmPRO Software takes a completely different and unique approach to data protection of virtual data. Deployed as a virtual appliance, vmPRO Software is a light-weight, agentless backup application that protects data in native format, an industry first. Quantum's vmPRO

Software-patented Progressive Optimization combined with DXi® appliances provides the industry's most effective deduplication rates and the fastest VM recovery. In addition, this combination provides a platform for users to consolidate all of their backup, replication, and long-term retention across physical, virtual and cloud-based data sets.

Quantum's vmPRO Software features include the ability to:

**• Back Up in Native Format:** Unlike other backup applications, vmPRO backs up and restores data in native format, providing easy drag-and-drop restores of individuals files, objects and whole VMs. This also reduces vendor lock-in and provides flexibility in DR choices, including cloud-based deployments. Protecting data in native format is a unique asset to your organization, and only Quantum vmPRO offers this capability.

**• Easily Restore Virtual Data in Seconds:** With data stored in native format, vmPRO allows you to perform very fast and easy restores of all your virtual data in seconds. Simply browse your virtual infrastructure by using the vmPRO GUI or even a standard file browser, then simply drag and drop a file, object or whole VM and go. With the native format, global search capabilities are available as well using search functions already native to the file browser.

**• Instantly Boot VMs from DR Site or the Cloud:** Backup has long been pedestrian, but restores and DR are where the biggest challenges lie. With vmPRO, since data is stored in native format, VMs that are located in a DR location, whether a physical DR site or the cloud, can be quickly and easily booted and run from that location. By using VMware, simply

## KEY BENEFITS

■ **Speed –** Restore files or boot entire VMs in seconds.

■ **Simplicity –** Drag-and-drop restores reduces complexity and admin time.

■ **Performance –** Reduce host, network and storage resources by up to 75% with patented Progressive Optimization.

■ **Flexibility –** Avoid vendor lock-in and ensure future-proof flexibility.

■ **Cost Savings –** Save over 50% compared to traditional backup applications.

■ **Integration –** Simplify integration with existing backup infrastructure.

■ **Certainty –** Be Certain with Quantum's 30 years of data protection expertise.
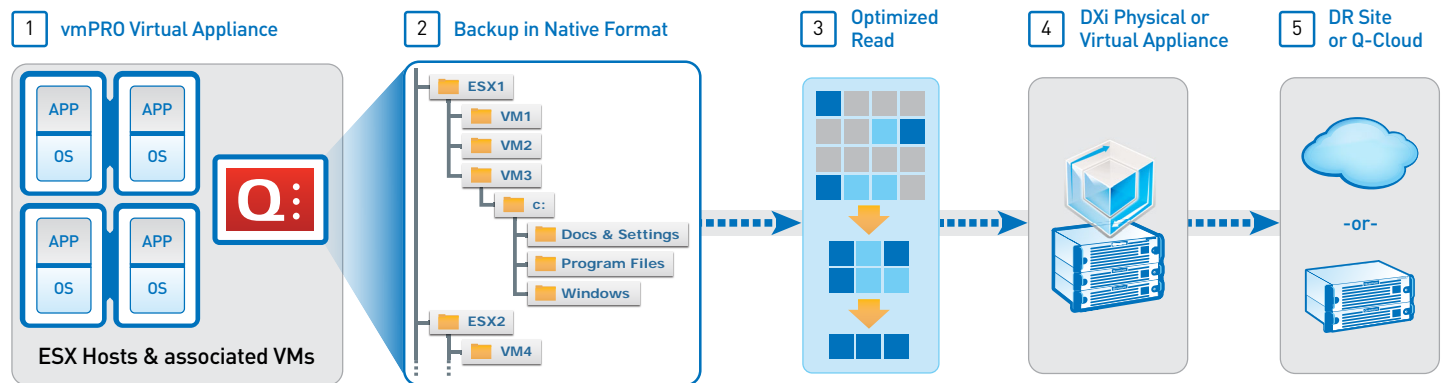
SVC awards 2011 WINNER

2011 PRODUCTS of the YEAR Storage magazine/SearchStorage.com GOLD — BACKUP HARDWARE

map the datastore to the target device and boot the VM. This is all done without the need for vmPRO at the DR site, saving you time, IT resources, and most importantly, cost.

• **Reduce Data by 95%:** vmPRO's patented Progressive Optimization technology, working in conjunction with Change Block Tracking from VMware, dynamically eliminates deleted, unassigned and unused data blocks associated with the guest file system, dramatically reducing host, network and storage resources by up to 75%. When combined with Quantum DXi deduplication solutions, customers can see data reduced even further, eliminating storage resources on the main site and in the cloud.

• **Simply Integrate with Existing Backup Infrastructure:** Traditional backup applications can fall short in protection of virtual data, but this does not mean that the backup application, the policies, procedures and backup mediums already in place are rendered useless. Quantum vmPRO provides direct, file system-level view of VMs to third-party software for simple integration into existing backup processes and applications, all without requiring special agents, making it simple and affordable to integrate VM protection into existing backup infrastructures.



1. **vmPRO Virtual Appliance:** vmPRO Software runs on an ESX server as a virtual appliance, so no additional hardware or software is required, including an OS. vmPRO is also VMware Ready and works directly with vCenter Server to auto-discover any new VMs, ensuring complete protection of your environment.
2. **Backup in Native Format:** vmPRO Software backs up VMs in native VMware (VMDK) format based on customer backup policies. This capability eases the recovery of single files, objects or entire VMs with simple drag and drop from the vmPRO GUI or any Standard File System Browser. By backing up VMs in native state, users can also instantly boot VMs from any remote site, including the cloud, without the need of the backup application.
3. **Optimized Read:** Patented Progressive Optimization technology filters out inactive and random data from the VM, reducing initial backup volumes by up to 75%. Backups run faster while load on servers, network, and storage is reduced, allowing your VMs to get back to work faster and shrinking your backup window.

4. **Quantum DXi Physical or Virtual Appliance:** The combination of vmPRO Software and DXi deduplication solutions provide the industry's best overall data reduction rates for both virtual and physical data sets. The DXi solutions can scale from 1TB to 1PB and have flexible deployment options of virtual appliances or purpose-built hardware appliances. Together, vmPRO Software and DXi solutions can provide protection across virtual, physical and cloud data. To learn more about DXi solutions and download a free full-featured copy of DXi V1000, visit www.quantum.com/freedxi.
5. **Replication to DR site or Q-Cloud™:** A true disaster recovery plan can now be deployed with little capital by using either another Quantum DXi or by using Q-Cloud, Quantum BaaS and DRaaS service offerings. Since vmPRO writes data in native format, VMs can be booted remotely without the need of the backup application, and individual files and objects are also able to be restored quickly and easily.

## TECHNICAL SPECIFICATIONS

### SUPPORTED ENVIRONMENTS

**VMware Infrastructure**
Platforms:
• vSphere 4.x–5.1
• VMware Infrastructure 3.5 (VI3)
Hosts:
• ESXi 4.x or later
• ESX 4.x or later

Software:
• vCenter Server 4.x–5.1 (optional)
• Virtual Center 2.5 (optional)

**Virtual Machines OS Supported**
• All operating systems supported by VMware
• Any application
• Any file system

### MINIMUM HOST SYSTEM REQUIREMENTS

• 12GB of free disk space.
• At least 1280MB of free RAM.
• Gigabit NIC port for data movement on the Quantum vmPRO host server.
• Internet Explorer, Firefox, Safari, or Google Chrome with Adobe Flash 9 or Flash 10 plugin.

**ABOUT QUANTUM**
Quantum is a proven global expert in Data Protection and Big Data management, providing specialized storage solutions for physical, virtual and cloud environments. From small businesses to major enterprises, more than 50,000 customers trust Quantum to help maximize the value of their data by protecting and preserving it over its entire lifecycle. With Quantum, customers can Be Certain they're able to adapt in a changing world – keeping more data longer, bridging from today to tomorrow, and reducing costs. See how at **www.quantum.com/BeCertain**.

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