



## Overview

**Country or Region:** United States

**Industry:** High Technology

## Customer Profile

CommVault, based in Oceanport, New Jersey, provides data management solutions that include data backup and storage, archiving, compliance management, and remote replication. The company employs about 550 people.

## Business Situation

CommVault wanted to enhance the performance of its flagship product, the QiNetix application suite, to help customers further reduce the time, cost and effort required for data management tasks.

## Solution

The company migrated QiNetix to the Microsoft Windows x64 Editions, using the support for 64-bit computing to dramatically enhance the performance of CommVault software.

## Benefits

- Performance increases of up to 100 percent
- 64-bit support for Microsoft Exchange
- Enhanced enterprise integration

## Data Management Company Benefits From Performance Gains of 64-Bit Platform

"With this advanced platform support, our customers can...take advantage of the performance benefits of 64-bit Windows and continue to reduce costs with the overall simplicity of QiNetix."

Randy De Meno, Chief Evangelist—Windows Technologies and Microsoft Partnership, CommVault

CommVault supplies data management software and services to companies around the world. Because its software helps to protect, archive, and manage vital information, CommVault has become a critical IT resource for its enterprise customers. To help enhance the performance of data management tasks such as data backup, storage, and archiving, CommVault decided to migrate its flagship product—the QiNetix application suite—to the Microsoft® Windows® x64 Editions, which include Microsoft Windows Server™ 2003 R2 x64 Editions and Microsoft Windows XP Professional x64 Edition. Initial tests have demonstrated that CommVault customers can achieve dramatic performance increases in QiNetix applications because of the power of the 64-bit architecture. This, in turn, will help CommVault customers streamline data management tasks and reduce the resources needed to protect their enterprise information.

“In the past, it would have cost hundreds of thousands of dollars to dramatically improve performance in data management tasks. Now it is simply native to the application.”

Anand Prahlad, Vice President of Engineering, CommVault.

## Situation

CommVault is a leading provider of enterprise data management solutions. Its QiNetix product suite and accompanying services are used by organizations around the world, including global names such as Shell, ESPN, Universal Studios, Toyota, Georgia Pacific, and Verizon, as well as many Fortune 2000 and Fortune 5000 companies.

QiNetix is used to ensure the safety and—when needed—the fast restoration of files, e-mail messages, Microsoft® SharePoint® objects, business-critical applications, and databases. Based on the Microsoft Windows® operating system, the QiNetix applications perform tasks such as snapshot management, remote replication, data archiving, and e-mail compliance for enterprise systems, including non-Windows platforms such as UNIX and Linux.

Historically, tasks such as backing up and archiving data have been time-consuming but essential processes for organizations. Today, data management takes on an even greater urgency. Not only is there a surfeit of information, but the data created by or contained in enterprise applications such as the Microsoft Exchange messaging and collaboration server are crucial for businesses.

Randy De Meno, Chief Evangelist—Windows Technologies and Microsoft Partnership at CommVault says that the importance of data protection grows with regulations such as the Health Insurance Portability and Accountability Act (HIPAA) and Sarbanes-Oxley, which regulates financial and accounting disclosure procedures.

“E-mail is the lifeblood of most organizations. It’s more than just sending messages. It’s used for handling mission-critical communications and business documents such as contracts or financial spreadsheets,”

he says. “Organizations today must devote even greater attention and resources to managing their information. That, in turn, puts pressure on us to enhance the performance of the QiNetix suite.”

## Solution

CommVault decided to become an early adopter of the Microsoft Windows Server™ 2003 R2 x64 Editions and Windows XP Professional x64 Edition operating systems. With this support, the QiNetix platform benefits from the speed and performance capabilities of the 64-bit Windows environment to deliver even faster data access for customers. The Windows x64 Editions take advantage of the processing power in 64-bit computing hardware. This improves input/output (I/O) performance for moving data in CPU-intensive applications and for transferring very large amounts of data, such as moving Microsoft Exchange inboxes to Storage Area Networks (SANs), which are high-speed subnetworks of shared storage devices.

Because the QiNetix product suite now runs on both the 64-bit and 32-bit versions of Windows, it can seamlessly work with both chipsets in a single enterprise. As a result, CommVault customers can add 64-bit servers as needed.

## Benefits

Migrating the QiNetix suite to the 64-bit Windows platform delivers significant benefits. These include performance increases of up to 100 percent or more in data throughput, which streamlines data management procedures and helps CommVault customers reduce the resources required for data management tasks.

Because a lot of CommVault customers use Microsoft Exchange—part of the Windows Server System integrated server software—they can make an easier transition to the

next version of Exchange. Implementing QiNetix on the 64-bit platform will also help streamline integration of IT enterprise systems, including those within organizations that operate heterogeneous IT systems.

### **Performance Increases of Up To 100 Percent**

The biggest benefit of migrating QiNetix to the 64-bit Windows platform is performance. In initial tests and pilot projects, CommVault software has demonstrated increases of between 50 and 100 percent or more in the speed of data throughput.

Xiotech, a leading SAN vendor providing storage leveraging Windows Server 2003, uses CommVault and has seen dramatic improvement as a result of the x64 architecture. "We use CommVault to protect our enterprise data and noticed a 100 percent performance increase after implementing the 64-bit QiNetix with our Magnitude 3D 3000 storage systems," says Mike Stolz, Xiotech Vice President of Marketing. This combination works great for us internally, and more importantly will be a major benefit for our customers."

Anand Prahlad, Vice President of Engineering at CommVault, notes that before moving QiNetix to the 64-bit platform, CommVault customers could expect performance ranges of 50 to 100 gigabytes per hour for backup processes without any special enhancements to the IT architecture.

"With the High Performance Computing of the 64-bit technology," Prahlad says, "we now experience several hundred gigabytes per hour. In the past, it would have cost hundreds of thousands of dollars to dramatically improve performance in data management tasks. Now it is simply native to the application."

He adds that in practical terms, this means that a customer can find an important archived e-mail message in a matter of seconds—a task that in the past might have taken hours or longer.

"Microsoft's 64-bit environment is one that I can count on to improve my product's performance without adding extensive development efforts for my team," Prahlad says.

### **64-bit Support for Microsoft Exchange**

De Meno says the performance increase in the 64-bit Windows platform will be particularly important for customers who will migrate to the next release of Microsoft Exchange Server communication and collaboration server, currently known as Exchange "12."

Among the new features of Exchange "12" is support for 64-bit computing, which is expected to deliver dramatically improved scalability that allows organizations to increase the number of users per server and their mailbox size while reducing per-mailbox storage costs.

"When customers hear about our technology already working seamlessly with new Microsoft technologies like Exchange "12," they get very excited. They know it means they'll benefit not only from the new features of Exchange, but also from dramatic performance increases in routine storage tasks that are becoming compulsory for many organizations," De Meno says.

### **Enhanced Enterprise Integration**

The performance increases experienced on the 64-bit Windows platform bolster customers' decisions to acquire or continue using the QiNetix suite as a core part of their enterprise systems. This includes using QiNetix to manage the data even in

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For more information about CommVault products and services, call (888) 746-3849 or visit the Web site at: [www.commvault.com](http://www.commvault.com)

organizations that use non-Windows-based systems.

"Supporting Microsoft Windows x64 Editions helps justify our strategic decision to use Windows as an enterprise data management foundation," says De Meno. "With this advanced platform support, our customers can more easily support their heterogeneous environments, knowing that they can take advantage of the performance benefits of 64-bit Windows and continue to reduce costs with the overall simplicity of QiNetix."

## Windows Server 2003

The Microsoft Windows Server 2003 family helps organizations do more with less. Now you can: Run your IT infrastructure more efficiently; Build better applications faster; Deliver the best infrastructure for enhancing user productivity. And you can do all this faster, more securely, and at lower cost.

For more information about Windows Server 2003, please visit:

<http://www.microsoft.com/windowsserver2003>

## Software and Services

- Microsoft Windows Server System
  - Microsoft Windows Server 2003 R2 x64 Editions
  - Microsoft Windows XP Professional x64 Edition