



## Transforming Business Continuity with VMware Infrastructure and Vizioncore

### Current Business Continuity Challenges

Implementing plans to ensure business continuity for key IT services and business critical applications is an essential requirement for organizations today. Downtime of important applications is a costly proposition and extended downtime can even be fatal—industry research finds that a significant number of companies that experience extended interruption to IT services soon go out of business.

While most organizations recognize the importance of business continuity, their ability to provide high availability and disaster recovery for key applications in a physical (non-virtualized) environment is often constrained by the following challenges:

- **High costs.** Many solutions require significant investment in additional hardware, software and services. Disaster recovery plans in particular often require duplicating data center infrastructure, resulting in a proliferation of under-utilized servers.
- **High complexity.** Most traditional business continuity solutions add significant complexity to data center environments. Acquiring and managing additional servers, use of complex cluster tools, implementing and maintaining specialized software and processes all contribute to this complexity.
- **Failure to meet recovery time and availability goals.** Due to the cost and complexity of business continuity solutions, organizations are often forced to compromise on solutions that are unlikely to meet goals for availability and recovery time objectives.
- **Insufficient reliability.** Testing existing complex business continuity solutions is challenging and requires significant equipment, expertise and personnel resources. The complexity of these specialized solutions also makes them difficult to maintain.

### Higher Availability with VMware Infrastructure

Industry-leading VMware<sup>®</sup> VMotion<sup>™</sup> technology allows IT administrators to move running virtual machines from one physical server to another without downtime. This capability makes it possible to conduct zero-downtime hardware maintenance by simply using VMotion to move running applications to other physical servers as needed.

VMware Distributed Resource Scheduler (DRS) can reduce unplanned downtime by automating the process of using VMotion to migrate running applications away from servers that cross utilization thresholds or moving virtual machines non-disruptively to servers that have the needed compute resources.

VMware High Availability (HA) provides easy to use, cost effective high availability for applications running in virtual machines. In the event of server failure, affected virtual machines are automatically restarted on other physical servers that have spare capacity.

### Better Disaster Recovery with VMware Infrastructure

VMware virtual machines are hardware-independent so any physical server can serve as a recovery target for any virtual machine. Organizations can significantly reduce the cost of hardware for disaster recovery by repurposing underutilized existing servers for recovery targets and disaster recovery testing.

VMware Infrastructure also simplifies and accelerates recovery, helping IT organizations meet their time-to-recovery targets. Complex multi-step procedures using specialized software for bare-metal recovery and operating system recovery can be simplified to single-step file recovery because virtual machines are completely encapsulated in a small number of files and can be restored to any hardware.

Finally, VMware Infrastructure simplifies testing of disaster recovery plans and makes training personnel in disaster recovery procedures easier.

### Benefits of VMware Business Continuity Solutions

Customers who use VMware Infrastructure to improve their business continuity plans experience numerous benefits, including:

Downtime reduction by eliminating planned downtime due to maintenance, or reducing un-planned downtime through economical sharing of fault-tolerant hardware features, and automated rapid restart of virtual machines.

Lower costs by implementing better business continuity at a lower cost, eliminating the need for additional hardware and specialized software.

Simplified processes by removing the complexity of maintaining duplicate physical systems for disaster recovery.

### Learn More

To learn more about VMware solutions and products, visit <http://www.vmware.com> or call 1-877-4VMWARE.



Vizioncore, Inc.  
www.vizioncore.com

## Overview

A global company headquartered in Buffalo Grove, Ill.; Vizioncore Inc. provides software that helps organizations safeguard and optimize their virtualized environments and allows them to extract the maximum return on their investment in the VMware platform. Vizioncore's software products support essential IT strategies, including business continuity, high availability and disaster recovery. Vizioncore's executive management team all have developed deep understanding of the virtualization industry from years of hands-on, front-line experience.

## Key Business Benefits

vEssentials brings together the critical components needed for affordable disaster recovery and business continuity for companies of all sizes who can now affordably and reliably safeguard their data, applications, operating system and servers. This ability is unprecedented in the physical space, where the need for redundant hardware and expensive SAN replication puts disaster recovery and business continuity out of the realm of possibility for many companies with limited resources. With vEssentials, customers can replicate to dissimilar hardware and not depend on attached network storage to be effective.

## VMware and Vizioncore

As a Community Source member and a Technology Alliance Program partner, Vizioncore remains at the forefront of developments of the VMware platform. Vizioncore's solutions are highly complementary to and extend the business value of the VMware platform for customers around the world.

# Cost-Effective Disaster Recovery and Business Continuity and Performance Monitoring Strategies for Companies of All Sizes

## Solution Overview

Vizioncore's vEssentials Suite provides all the components necessary to launch any size company to achieve comprehensive business continuity. vEssentials is comprised of the following products:

**vRanger Pro™** provides image-level, hot backups—of either the entire virtual machine or just the differential—simply and easily. Unlike agents, vRanger Pro runs outside the guest OS, and can be integrated with VMware® VirtualCenter. vRanger Pro is also VMotion™ aware, so it can follow virtual machines to perform regularly scheduled backups even after they have moved. vRanger Pro also integrates with VMware Consolidated Backup (VCB) helping to off-load backups from the host. A P2V-DR module in vRanger Pro also extends VM backup & recovery capabilities to physical servers in the data center.

**vReplicator™** supports replication of the entire virtual machine, including configuration settings, patches to the OS, the application itself, as well as the data and all other OS-level changes. vReplicator allows for selective replication of individual critical-level virtual machines, eliminating the maintenance, network traffic and hardware expense that comes with replicating the entire LUN or SAN. vReplicator can replicate from many hosts to one host and can replicate to hardware platforms that are dissimilar from the source.

**vCharter™** provides a top-down view of performance for the entire virtual infrastructure in a drill-down display that shows each level beginning with the container, through host level and then virtual machines. vCharter has "out-of-the-box" reporting that allows administrators to use default formats for tracking host capacity, VMFS inventory and virtual machine performance.

Any size company—from SMB to enterprise—can utilize vEssentials as an affordable option for backing up and replicating their virtual machines to remote locations, as well as pulsing them to ensure optimum performance.

## Solution Benefits

- Complete end-to-end package—all components are integrated and work together seamlessly
- Allows clients—who would otherwise go without these solutions—to leverage virtualization for Business Continuity/ Disaster Recovery
- Provides smaller companies with compelling reason—beyond server consolidation—to utilize virtualization
- Enhances customers' experience with VMware platform through performance monitoring and chargeback, which allows them to calculate cost benefits and keep VMware Infrastructure-enabled servers performing optimally.
- Integrated bundle reduces resistance to virtualizing, because solutions are easy to use by any level administrator—no specialized training is required
- P2V plug-in allows users to protect physical servers as well as virtual hosts throughout the data center
- Users can extract more ROI from virtualization investment
- Built from the ground up for virtual environments, eliminating legacy issues of software built for physical servers
- Proven technology deployed by more than 7000 customers worldwide—and growing

## Vizioncore and VMware

All Vizioncore products solve real-world customer issues and are specifically designed to integrate with the VMware platform, complement VirtualCenter, and are VMotion and DRS aware. vRanger Pro integrates with VCB to achieve the fastest backups possible while reducing overhead on the VMware ESX Server host.