

## SOLUTION OVERVIEW

# VIRTUAL SYSTEM PROTECTION

## Advanced Disaster Recovery and Availability Solutions

Virtual server technologies provide businesses and IT departments with the ability to do more with less, enabling the consolidation of data and applications onto a single server. The result is reduced costs, simplified IT management, and minimised space requirements. The need to protect these virtualised systems is paramount as they are running multiple business-critical applications, requiring a higher level of protection.

Consider the impact of a failure of a virtualised system. Instead of incurring downtime of just one application, you will incur downtime of multiple applications. Virtual machine technologies require advanced disaster recovery and availability solutions that provide protection against data loss and downtime for the entire environment.

Double-Take® from Double-Take® Software delivers enterprise-class disaster recovery and high availability solutions for these cutting-edge virtual environments. Double-Take is the industry-leading replication and availability solution that offers local and long-distance protection against most any outage, from a failed power supply to a regional disaster. Double-Take for Virtual Systems is the industry's first disaster recovery and availability solution designed for virtualised server environments.

Your tape backup solution can provide for the long-term archival needs of the virtual servers; however tape cannot provide the level of recoverability required for critical business applications. Rebuilding one application from tape can be a difficult and lengthy process. Having to recover four or more applications at the same time from tape to rebuild the one physical server will result in an excessive period of downtime, likely more than the business can afford. Double-Take replication solutions are the perfect complement to existing tape backup solutions, delivering a much quicker recovery time with minimal to no loss of data.

Double-Take can also maintain availability of the virtual servers by providing failover monitoring and client redirection to a standby server to minimise lost productivity. Double-Take for Virtual Systems provides the same world-class protection for your virtual servers that you have come to rely on for your physical servers. With the flexibility and robust feature set of Double-Take, you can implement the solutions that ensure these virtualised environments are protected from data loss and downtime.

### Solutions and Pricing that Fit

The implementation of virtual servers enables businesses to better meet the ever-growing demands on budgets and resources. You need a data protection solution that is able to seamlessly integrate with your particular configurations without fail. The flexibility of Double-Take for Windows allows for a virtualised source, target, or both, allowing for the protection of virtual servers as well as using a virtualised server as the replica target for a cost effective DR solution. Plus, you can run Double-Take for Windows on unlimited virtual machines for one price.

### Disaster Recovery for Virtualised Machines

Protecting the data on a virtual machine is absolutely crucial. Double-Take for Virtual Systems deploys easily within each virtual session to protect each individual application independently. Options include replicating all virtual sessions to a single physical server or to a virtualised server. The patented Double-Take architecture allows you to design and implement the solution that's right for your business.

## Virtualised Disaster Recovery and High Availability Solutions

Implementing a disaster recovery solution can be simplified using virtual technologies and result in a much lower overall cost. Because most applications typically require their own dedicated server, providing high availability or failover protection to these applications requires a dedicated target server. With Double-Take each application can replicate and fail over to a dedicated virtual session on a single physical server, eliminating the need to deploy and manage multiple target machines. The result is a very high level of application protection and availability at a much lower TCO. Virtual server solutions offer improved efficiency and lower IT costs.

Double-Take for Virtual Systems was developed specifically for virtual environments to offer businesses advanced solutions or protecting these highly valuable servers.

**Flexible configuration options.** Replicate from and to a virtualised environment.

**Per-host Pricing.** Because you can run Double-Take on unlimited virtual machines for one low price, P2V and V2V automated monitoring, failover and disaster recovery are simple and extremely cost-effective especially when compared to expensive, proprietary hardware-based replication.

**Continuous, asynchronous, byte-level replication.** Double-Take monitors changes to all protected files and replicates only the actual bytes that change.

**Unlimited distance replication.** Replicate to a disaster recovery site as far away from your production server as you would like, over standard IP networks, for maximum protection against data loss from regional crises and other disasters.

**Supports leading virtual technologies** including VMware ESX and GSX server, Microsoft® Hyper-V™ and Microsoft® Virtual Server.

**Hardware independent.** The flexibility to choose best-of-breed hardware and software as your enterprise grows.

**Application independent.** Patented STAR (sequential transfer asynchronous replication) technology enables complete data replication integrity for virtually any application.

**Certified Windows compatibility.** Double-Take is certified for all editions of Windows® Server 2003 and Windows 2000.

**Exclusive resource planning tool.** Simulate your replication solution and estimate the bandwidth you'll need to go live.

**Flexible Bandwidth Scheduling.** Impose higher or lower network usage limits during those times when most appropriate for your business. Limit network use of Double-Take during busy work hours and increase or remove these limits during non-peak times for very efficient replication with the least amount of impact on production resources.

**Move and Protect.** Double-Take® Move, included with Double-Take for Windows, makes it easier to virtualise your existing infrastructure by automating the P2V migration process and reducing the downtime associated with moving to VMs.

**Integrate with existing backup solutions.** Use replicated data to perform remote backups and snapshots at any time without impacting your production server.

**Queued task processing.** Insert commands in the replication queue to automatically trigger remote backups, snapshots, or other tasks at specific times or in response to specific application events.

**Uses standard network protocols.** Replicate over any existing IP network – LAN, WAN, VPN or NAT – so you can deploy without additional infrastructure costs.

**Many-to-one failover.** Allow multiple production servers to use the same target server.

**Intelligent Data Compression.** Improve performance and reduce network usage by compressing only the data that will benefit.

**Protect Exchange, NAS, SAN and more** – and bulletproof your business continuity, data migration, centralized backup, and server consolidation operations.

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