

# Solutions for VMware vCenter Site Recovery Manager

## Highlights

**The FalconStor difference for VMware customers — Storage virtualization and unified data protection, while removing hardware budget barriers:**

- Certified for VMware vCenter Site Recovery Manager 5
- Eliminate DR budget barriers with heterogeneous storage
- Storage virtualization enhances server virtualization
- Unified backup & DR with instant recovery
- WAN-optimized replication minimizes bandwidth consumption and associated costs
- Unmatched application support, including Microsoft Exchange Server, Microsoft SQL Server, Oracle, DB2, Sybase, Lotus Notes, Informix, & more

When it comes to disaster recovery (DR), the biggest challenge is to bring systems back online as quickly as possible. In the event of a primary site failure, restoring business operations from a remote site can be a lengthy, complex, and costly manual process. VMware vCenter Site Recovery Manager accelerates and simplifies this process by automating application failover and failback.

FalconStor Software provides data protection solutions that are fully certified with VMware vCenter Site Recovery Manager, including VMware vCenter Site Recovery Manager 5, enhancing the benefits of server virtualization with innovative, heterogeneous storage virtualization. With FalconStor solutions, you can experience the tangible value of server virtualization, storage virtualization, and data protection without the hardware constraints and associated costs of traditional array-based solutions.

### **REMOVE DR BUDGET BARRIERS**

While most organizations clearly recognize the benefit and need for remote DR facilities, few are able to overcome the sizable costs associated with such a solution. Beyond the physical and operational costs, most DR solutions require duplicate storage hardware, multiple replication function licenses, and transmission bandwidth between sites. As a result, many organizations opt to protect only their most business-critical applications.

FalconStor removes the budgetary barriers for VMware vCenter Site Recovery Manager DR and application protection, enabling organizations to ensure remote data protection for all of their business applications. FalconStor solutions greatly reduce DR costs by removing storage hardware constraints. With the FalconStor<sup>®</sup> Storage Replication Adapter (SRA) for VMware vCenter Site Recovery Manager, users can replicate data between any set of storage arrays, regardless of vendor or type. In addition, patented WAN-optimized replication technology minimizes monthly bandwidth traffic and associated costs.

### **UNIFIED DATA PROTECTION**

In addition to providing virtual storage and provisioning tools, FalconStor technology offers a full set of data protection services, including journaling, real-time mirroring, and volume snapshots. These features address the underlying business requirements of recovery and availability.

The time required to recover lost or corrupted data or servers, the recovery time objective (RTO), often has an inverse relationship with the cost of a solution. Most low-cost solutions foster very high RTO values. Unlike these solutions, FalconStor solutions enable comprehensive data protection with transactionally consistent data recovery, typically in less than five minutes.

A network-based architecture provides near-instant access to recovery volumes, without introducing loading or latency to your production applications, servers, or storage. Recovery granularity is further enhanced by multiple recovery points, or snapshots; up to 1,000 per LUN.

**APPLICATION-AWARE SNAPSHOT AGENTS**

An integral requirement of business application recovery is consistent point-in-time snapshots. FalconStor provides up to 1,000 snapshots through application-aware snapshot agents that ensure 100% transactional integrity. These snapshots can be instantly mounted for recovery of files, database objects, and email messages, or as entire volumes for bare-metal recovery.

Large environments can simplify data protection management by leveraging the FalconStor consistency group feature, which allows multiple data protection operations to be performed simultaneously across any number of data volumes. FalconStor snapshot technology features a unique deduplication mechanism that greatly reduces required disk capacity by only capturing changes made to data at the sector level. The synergy of application-aware snapshots and integrated data deduplication enable cost-effective and resilient business application availability.

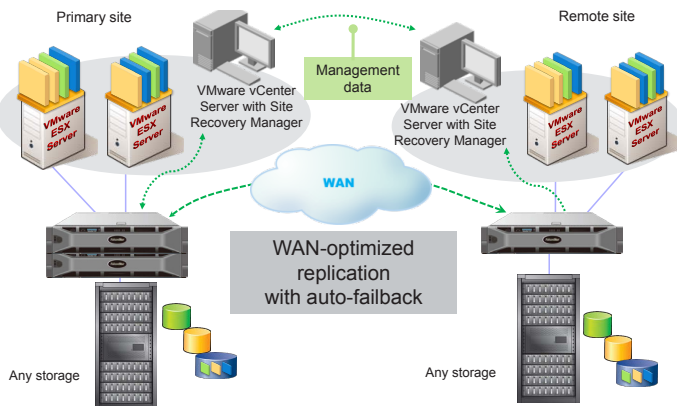
**WAN-OPTIMIZED REPLICATION**

Replication between data centers is the most critical component of DR. VMware delegates this replication function to storage partners. An often overlooked but costly component of DR is the monthly bandwidth that customers must purchase for data transmission between locations. FalconStor WAN-optimized replication minimizes these costs by reducing bandwidth requirements through four primary features: Encryption, compression, link-status awareness, and deduplication. Unique FalconStor replication features include adaptive replication, which automatically switches between continuous and periodic data transmission in the event of temporary bandwidth link outage or throughput degradation, and MicroScan™, a patented deduplication technology that minimizes the amount of data transmitted during replication. MicroScan technology greatly reduces data traffic, significantly reducing monthly bandwidth and data link costs.

**SIMULTANEOUS PHYSICAL & VIRTUAL SERVER PROTECTION**

Although FalconStor data protection solutions fully enable and promote cost-effective deployments of VMware vCenter Site Recovery Manager, their capabilities are not limited to virtual server environments. Physical and mixed server environments alike can benefit from the comprehensive and centralized data protection capabilities of FalconStor technology.

*FalconStor solutions enable fast, efficient replication & data recovery in VMware vCenter Site Recovery Manager environments*



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