

# Disaster Restart for VMware Site Recovery Manager—EMC SRDF

## EMC replication for VMware Site Recovery Manager

SRDF

MirrorView

Celerra Replicator

RecoverPoint

VMware® has changed the data center landscape by harnessing server, network, and storage resources for unprecedented gains in economy and efficiency. To ensure the integrity of your virtualized data, EMC provides data replication products and services for VMware Site Recovery Manager to make disaster recovery rapid, reliable, manageable, and affordable in VMware infrastructure environments.

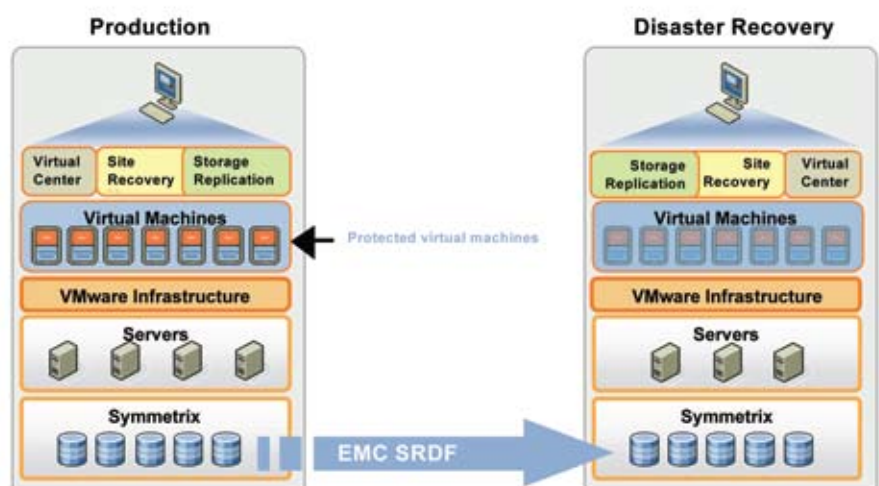
EMC data replication solutions are widely deployed to protect the physical and virtual storage assets of many leading businesses. With EMC® data protection, organizations get the best in local and remote synchronous and asynchronous replication for enterprise-class storage arrays.

## Why EMC Disaster Recovery

EMC has a proven track record in providing solutions that solve customers' storage and data protection problems. These solutions are supported with industry-leading best practices including EMC E-Lab™ interoperability testing and qualification.

EMC provides:

- Widely deployed data replication solutions that protect the physical and virtual storage assets of many leading companies
- Investment protection for existing infrastructure with heterogeneous storage support for EMC and non-EMC arrays
- Enterprise-class disaster recovery and business continuity solutions
- Reference architectures for popular core business applications such as Oracle, Exchange, and SQL
- Installation, configuration, integration, and optimization guides for the entire solution stack
- Proven interoperability via renowned EMC E-Lab testing and VMware certification



## EMC SRDF—Data Protection and Disaster Restart

The EMC SRDF® family of software is the most powerful suite of remote storage replication solutions available for disaster restart and business continuity. Fully leveraging the industry-leading high-end Symmetrix® architecture, it offers unmatched deployment flexibility and massive scalability to deliver a wide range of distance replication capabilities to meet mixed service-level requirements with minimal operational impact. The field-proven SRDF family is the most widely deployed set of high-end replication solutions, with tens of thousands of installations in the most demanding environments. And only SRDF can provide cross-volume and storage system consistency, tight integration with industry-leading applications, and simplified usage through automated management.

### Accelerate Replication of VMware Virtual Environments with EMC SRDF

EMC SRDF provides:

- Synchronous and asynchronous remote replication of VMware VMFS and RDM volumes across the industry-leading high-end Symmetrix storage arrays
- Support of common VMware remote replication modes, including physical source to virtual target and virtual source to virtual target
- Advanced three-site remote replication solutions that enable protection of virtual environments against local or regional disaster events
- Technology to preserve dependent-write consistency of Virtual Infrastructure information with other non-virtualized application data
- Restoration of the primary site with minimal impact to application performance on the remote site with resynchronization from Symmetrix to Symmetrix
- Integration with VMware Site Recovery Manager with an SRDF storage replication adapter provided by VMware and EMC

### Benefits of EMC SRDF for VMware Site Recovery Manager

Leverage the remote replication technology of EMC SRDF to:

- Support remote replication and disaster restart for virtual machines running on VMware Virtual Infrastructure version 3.0.2 or 3.5 or later
- Reduce time to virtual machine restart as a single button kicks off recovery sequence for protected virtual machines, including read/write enabling of the SRDF R2 LUNs
- Minimize site failback time with SRDF since only changed device tracks are copied back over the SRDF network to resynchronize the production site Symmetrix system
- Use SRDF/S R1 and R2 swap for immediate application restart at the recovery site with built-in data integrity checks to prevent data corruption
- Create and test a restartable SRDF replicated copy of the virtual machine's data in the recovery site without shutting down the protected site's virtual machine using TimeFinder® to insure a reliable recovery plan



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#### Take the next step

To learn more about accelerating backups in your VMware environment, contact your local EMC representative or partner, or visit our website at [www.EMC.com](http://www.EMC.com).