

# EMC Solutions for Microsoft SQL Server 2005 for Midsize Enterprises

## Reducing the cost and complexity of technology choices for midsize enterprises with physical and virtual deployment options

### Deployment Options—Physical and Virtual

- EMC tests and validates solutions for Microsoft SQL Server 2005 in both physical and virtualized—VMware and Hyper-V—environments.
- VMware Virtual Infrastructure enables server consolidation with workload isolation and granular resource control for all of the system's computing and I/O resources.
- By consolidating physical systems in the data center onto virtual machines, enterprises can achieve lower total cost of server ownership, increased server utilization, and increased operational efficiency and manageability.

Improve performance and availability in your Microsoft SQL Server 2005 environment with fully tested and validated solutions built to meet the requirements of midsize enterprise workloads.

### Business Challenge

With limited resources and increasing demands, today's midsize enterprises need to manage IT costs and reduce the risk of business disruption, while overcoming many of the same challenges as larger companies.

These challenges include:

- Meeting the highest performance and scalability requirements
- Ensuring the highest availability of key applications
- Streamlining the test and development process
- Enabling cost-effective business continuity strategies that meet SLA requirements
- Ensuring instant recoverability of tables, databases, and servers
- Reducing the traditional risk associated with multi-vendor technology integration

### Solution Description

EMC empowers businesses of all sizes to address these pressing challenges. EMC® solutions are backed by rigorous validation and testing in Microsoft SQL Server environments. EMC experience and proven methodologies help you get the results you need, predictably, reliably, and faster. EMC solutions also integrate with key Microsoft technologies, including Microsoft Cluster Server (MSCS), Microsoft SQL Server Virtual Device Interface (VDI), Microsoft SQL Server Database Mirroring, and Microsoft Volume Shadow Copy Services (VSS).

To enable a broad choice of deployment options, EMC solutions embrace leading VMware® technologies such as VMware High Availability (HA) and VMware VMotion®. VMware HA provides pervasive, cost-effective failover protection within your virtualized IT environment. VMware VMotion enables you to accelerate migration by moving an entire running virtual machine instantaneously from one server to another.

EMC Solutions for Microsoft SQL Server 2005 include:

- **Consolidation solutions** offer a choice of platform deployments utilizing proven and tested methodologies. EMC offers iSCSI solutions to enable customers to leverage existing LAN connectivity investments for OLTP and smaller-scale data warehouses. For customers with higher performance requirements, EMC offers industry-leading Fibre Channel solutions to support large-scale OLTP and large data warehouse environments.

- **Backup solutions** offer array-based replication to provide multiple recovery points throughout the day and speed recovery of data. EMC integrates its industry-leading replication technology with VSS/ VDI to enable customers to take advantage of the industry's best technologies. EMC Replication Manager-based solutions enable the creation of array-based replication for instant backup and recovery—simplifying the management of replicas. EMC's replication solutions also streamline the application testing and development process by simplifying the creation of a full copy of the database.
- **Protection solutions** leverage the best remote replication technologies from both Microsoft (database mirroring) and EMC (array-based replication) to ensure the highest levels of business protection—proven to deliver a near-zero recovery point with a recovery time of minutes.

EMC and its Authorized Storage Network (ASN) partners offer customers a full range of services to address requirements across the SQL Server lifecycle, including expertise to plan accelerated upgrades to Microsoft SQL Server 2005—and soon, Microsoft SQL Server 2008. Using proven best practices, this service enables a fast transition from older, inefficient deployments to new SAN- or iSCSI-based infrastructures.

### The EMC and Microsoft Alliance

Key to every solution engagement is access to EMC and Microsoft expertise, including the sharing of deployment best practices based upon hundreds of engagements and reference architecture recommendations to meet specific workload requirements.

- EMC is one of 19 Microsoft Global System Integrators.
- Fifteen-time Microsoft “Partner of the Year” with eight gold-level certifications.
- EMC remains the largest SQL Server vendor for deployments, as stated by WinterCorp. (2005 WinterCorp SQL Server Research Report)
- Extensive network of Authorized Services Network (ASN) partners skilled in EMC, VMware, and Microsoft technologies.

### Accelerating Information Lifecycle Management

EMC Solutions for Microsoft SQL Server are part of a comprehensive family of EMC solutions and services that deliver predictable results. EMC helps companies of all sizes assess their business objectives to design and align an information infrastructure that reduces risk, lowers cost, and delivers business value.



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#### Take the next step

EMC Solutions for Microsoft SQL Server 2005 for Midsize Enterprises are part of EMC's extensive solutions portfolio for Microsoft applications. To learn more about this and other solutions, visit [www.EMC.com/solutions](http://www.EMC.com/solutions) or contact your local EMC representative.