



# EMC Design for Microsoft SQL Server Data Warehouse Infrastructure

Optimize and lower the cost of data warehouse infrastructure

Microsoft SQL Server 2005 provides many new and enhanced business intelligence (BI) and data warehousing features designed to give you a competitive advantage. The effective use of the data that resides in the data warehouse enables organizations to guide business decisions and identify new opportunities.

## Business Challenges

Data warehouse solutions are implemented to support critical business analysis and drive competitive advantage. There are challenges:

- The desired data must be available when needed and structured so that applications can locate and access it quickly.
- The infrastructure needs to be able to grow over time and adapt to changing business needs.
- The need to ensure optimal performance in processing the multitude of raw data.
- The aging and eventual obsolescence of data must be managed.
- Ensuring the availability of appropriate resources and expertise to plan, build, and deploy robust data warehouse environments.

Proven expertise, best practices and methodologies are critical success factors in a deploying and managing the underlying infrastructure for data warehouse environments.

## Solution Description

The EMC® Design for Microsoft SQL Server Data Warehouse Infrastructure service provides a best-practice-based database and storage design for Microsoft SQL Server 2005—specifically for a data warehouse application on an EMC CLARiiON® platform.

SQL Server and CLARiiON provide a firm foundation for successful data warehouse deployments, as demonstrated in Project REAL. Project REAL is a cooperative effort between Microsoft, EMC, and others to build real customer scenarios to discover best practices for analytic applications on SQL Server 2005. Project REAL uses real, authentic customer data to work through customer deployment issues and to address the full range of real-world challenges that can arise in DW environments.

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An integrated approach to data warehouse and storage infrastructure design enables customers to successfully manage extreme volumes of data (terabytes) in a cost-effective tiered storage solution. Customers' business intelligence data ages from high-performance storage to higher-density storage and, over time, to the highest-density storage—at the lowest cost—available.

EMC utilizes these joint best practices as the foundation for this design offering. There are two major deliverables of this engagement:

1. Design Report—which encompasses all the analysis and architecture-based recommendations to implement the data warehouse solution.
2. Recommendations—on storage data layout for the CLARiiON array.

### **The EMC Microsoft Practice**

With the EMC Microsoft Practice you get the Microsoft-focused strategy, design, implementation, and support services you need to optimize your IT infrastructure and application environments.

- EMC is one of 13 Microsoft Global System Integrators.
- EMC is a 12-time Microsoft “Partner of the Year”, with 6 gold-level certifications.

### **EMC and Microsoft's Alliance**

You also benefit from the investments EMC makes in our alliance with Microsoft.

- Decade-long technical and business partnership renewed with an annual \$10M investment focused on solutions.
- Joint EMC and Microsoft support center in Atlanta.
- EMC remains the largest SQL Server vendor for deployments, as stated by Winter Corp. (2005 Wintercorp SQL Server Research report)

### **Accelerating Information Lifecycle Management**

EMC's Solutions for Microsoft SQL Server are part of a comprehensive family of EMC solutions and services that deliver results throughout the information lifecycle. 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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Solution Overview  
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