

# SQL SERVER PERFORMANCE MONITORING, ALERTING & DIAGNOSTICS

## SQL diagnostic manager™

SOLUTIONS FOR PERFORMANCE & AVAILABILITY

SQL diagnostic manager is a powerful performance monitoring and diagnostics solution that proactively alerts administrators to health, performance or availability problems within their Microsoft® SQL Server® environment, all from a central console. SQL diagnostic manager minimizes costly server downtime by providing agent-less, real-time monitoring and customizable alerts for fast diagnosis and remediation of SQL Server performance and availability problems. SQL diagnostic manager also pinpoints common performance issues such as worst performing code, and provides extensive historical metrics for in-depth trend analysis.

### PRODUCT HIGHLIGHTS

- Monitor and manage SQL Servers enterprise-wide
- Find and fix performance bottlenecks
- Analyze performance over time
- Set customized alerts and notifications
- No agents or database objects required on monitored servers

### NOW INCLUDES SQL MOBILE MANAGER™!

#### *The SQL diagnostic manager 'Today Page'*

*provides a summary of the health of the entire SQL Server environment, making it easy to see at a glance if there are servers that require immediate attention.*

*The Server Overview displays an overview of the SQL Server real-time or historical performance metrics, including resources, locks, blocks and session information. The History Browser also enables the server state to be shown as it looked at a historical point-in-time.*

*"SQL diagnostic manager gives us the information we need to quickly identify and resolve SQL Server problems before they happen. Now we are spending more time on proactive and strategic planning—instead of putting out fires."*

- CHIEF SYSTEMS ARCHITECT, MANAGED HEALTHCARE COMPANY



## WHY SQL diagnostic manager?

In many organizations today, SQL Server supports business critical applications where server downtime or poor performance has an immediate impact on business productivity. As a result, ensuring SQL Server performance and availability is arguably the most critical function for DBAs today. At the same time, SQL Server DBAs are tasked with supporting constantly growing SQL Server deployments with limited resources. In order to effectively manage these growing environments, DBAs need reliable, real-time information on the status and health of their complete SQL Server environment, along with diagnostic tools to quickly pinpoint and resolve performance issues. SQL diagnostic manager meets these needs by monitoring the performance of all SQL Servers and providing the most comprehensive SQL Server diagnostics on the market.



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# SQL diagnostic manager

## MONITOR, DIAGNOSE & ANALYZE PERFORMANCE PROBLEMS

### KEY BENEFITS

**Increases SQL Server availability:** SQL diagnostic manager continuously monitors the entire SQL Server environment and provides immediate, customized notifications when performance or availability issues are discovered. Once notified, DBAs and other administrators can quickly investigate, diagnose and correct performance and availability problems from the SQL diagnostic manager console.

**Provides a comprehensive view of current performance:** SQL diagnostic manager summarizes current server status across the enterprise, making it easy to drill into servers that are experiencing performance problems. The server dashboard collects and displays extensive real-time activity, status and performance information for sessions, queries, system resources, databases, services, and logs.

**Stores data in the centralized SQL diagnostic manager Repository:** SQL Server performance data is stored in the central SQL diagnostic manager repository, enabling DBAs to create a variety of reports for strategic analysis – such as trend analysis, capacity planning, data comparison, data correlation, and forecasting.

**Improves the productivity of both skilled and novice DBAs:** SQL diagnostic manager delivers unprecedented visibility to over 230 performance metrics, organized into logical data views with the ability to drill down to pinpoint the root cause of performance issues. Console display options can also be customized to each user's preferences.

**Offers easy installation and use:** SQL diagnostic manager can be installed quickly with no agents or other database objects required on the monitored servers. A typical installation and configuration will take less than 30 minutes.

### TECHNICAL FEATURES

#### POWERFUL PERFORMANCE MONITORING AND DIAGNOSTICS

- **Continuous monitoring and analysis:** Provides continuous monitoring and real-time analysis of SQL Server and OS health and performance metrics across all SQL Servers enterprise-wide, including clustered configurations.
- **History Browser:** Quickly and easily diagnose historical SQL Server performance problems by selecting a historical point-in-time to view historical SQL Server and OS performance metrics.
- **Mobile management:** View real-time SQL Server performance data from a Windows Mobile or Blackberry device.
- **Custom monitoring:** Add any SQL, Windows or DMV counter for total flexibility in monitoring and alerting.
- **Pinpoints session locking, blocking and deadlocks:** Identify locks, deadlocks and blocked sessions and see the complete blocking chain for easy identification and resolution.
- **Query monitoring:** Identify performance bottlenecks such as the worst performing stored procedures, long-running queries, most frequently run queries, SQL Statements and SQL batches.
- **Monitor replication and mirrored environments:** Monitor and alert on performance issues affecting mirrored database or replication environments.
- **Adaptive and automated alerting:** Automatically identifies alert threshold recommendations based on historical performance data and automatically takes corrective action.
- **Fragmentation statistics:** Displays fragmentation statistics to help you identify indexes that may need attention.
- **Knowledge Base:** Provides the ability to add custom environment-specific details to reduce problem resolution time, increase availability, and increase internal awareness.

#### ENTERPRISE MANAGEMENT FEATURES

- **Enterprise-class scalability:** Large numbers of servers can be monitored from a single console, providing an unprecedented level of visibility and control of the SQL Server environment.
- **Application security:** Flexible customization of server access and security permissions allow DBAs to have full access to one or more servers while other users such as Help Desk Operators are provided read-only access.

- **PowerShell Snap-in:** Quickly and easily script many of the SQL diagnostic manager management tasks using the PowerShell Snap-in.
- **Central Data Repository:** Stores all historical performance data in a central repository, enabling analysis of long-term trends, capacity planning and other strategic analysis.
- **Powerful reporting:** Includes predefined reports highlighting key performance trends, along with an easy to use reporting interface for users to conduct customized historical performance trending and analysis.
- **Agent-less, low impact monitoring:** Provides simple, secure data collection from a background service. No agents or components of any kind are installed on the monitored SQL Servers, providing comprehensive monitoring with very low overhead.

### SYSTEM REQUIREMENTS

#### MANAGEMENT CONSOLE, SERVICES AND DATA REPOSITORY

- Windows 2000 SP4, Windows XP SP2+, Windows Server 2003 SP2, Windows Server 2008, Windows Vista SP1, Windows 7, Windows 2008 R2
- .Net 2.0 SP2+ and MDAC 2.8
- Monitor capable of displaying 16bit color or greater and a resolution of 1024x768
- Repository: SQL Server 2000 SP4, SQL Server 2005 SP1+, SQL Server 2008, SQL Server 2008 R2

#### SUPPORTED MONITORED SQL SERVERS

- SQL Server 2000 SP4, SQL Server 2005 SP1+, SQL Server 2008, SQL Server 2008 R2

SQL diagnostic manager does not install any components, DLLs, scripts, stored procedures or tables on the SQL Server instances being monitored.

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