

Proven Scalability for Monitoring Enterprise Database Systems

IS YOUR PERFORMANCE MONITORING SOLUTION KEEPING UP WITH YOUR DATA ESTATE?

As your company's data estate continues to grow, you need assurance that your monitoring solution will scale accordingly and won't consume excessive computing resources—which only adds to the performance problems. And are you confident your solution can monitor physical, virtual, and cloud-based environments?

SolarWinds® SQL Sentry empowers you to manage performance across your SQL Server database environment, including SQL Server, Azure SQL Database, SQL Server Analysis Services, and virtual machines on Windows or VMware.

[TRY IT FREE](#)

SQL Sentry is proven to monitor 800-plus SQL Server instances—with one monitoring database, no loss in data, and low overhead—so you can be confident it'll help you solve and prevent performance problems, not become part of the problem.

PROVEN SCALABILITY

How does SQL Sentry achieve 5x scalability compared with our competitors? Our product and engineering teams collaborated with Microsoft to leverage advanced SQL Server features to deliver the latest performance and scalability technologies:

- Partitioned clustered columnstore indexes (CCI) to increase performance and reduce storage requirements and overhead
- In-Memory OLTP to increase telemetry data ingestion without throughput or bottleneck issues

As an example, a SQL Sentry customer in the healthcare industry is monitoring more than 800 SQL Server instances with the SQL Sentry monitoring database on a virtual machine, with only 16 CPUs and 88GB of RAM.

Additional benefits realized by implementing these advanced technologies in SQL Sentry include:

- Reduced I/O
- Decreased storage and memory
- Reduced compute requirements

LOW OVERHEAD

The SolarWinds team has gone to great lengths to produce consistent and realistic load tests and to analyze the stresses SQL Sentry monitoring can place on CPU, memory, network, and I/O while a typical load is running against several monitored SQL Server instances.

Our strict adherence to engineering for the lowest possible overhead allows us to capture more data points with higher granularity than any other system without becoming the cause of performance issues. To determine the optimal timing of data collection, our SQL Server experts put careful thought and consideration into:

- What data is truly actionable based on real-world scenarios?
- How will the data pro use the information?
- How often does the data change?
- What is the inherent overhead in collecting the data?

SQL Sentry uses this information to determine the optimal intervals for collecting various types of data, taking into consideration the volatility and relevance of a data point such as CPU usage or memory.

5X SCALABILITY KEEPS DATABASES AT PEAK PERFORMANCE

The result of our team's engineering efforts is a monitoring solution that can scale to handle the highest-volume workloads in the industry with one repository—about five times the capacity of our competitors.

“Not only do customers save time on traditional database maintenance, but they love the fast query response time—about 9 to 10 times faster than before.”

—Melissa Connors, SolarWinds Senior Information Developer in the customer story on [Microsoft.com](https://www.microsoft.com)