

The Complete Performance Solution for Microsoft SQL Server



SQLSENTRY **PerformanceAdvisor**® *for Analysis Services*

- Powerful SSAS Performance Dashboard
- Innovative Workload and Bottleneck Profiling
- Capture of all Heavy MDX, XMLA and DMX
- Aggregation, Partition, and Dimension Activity by Query
- SSAS Cache and Storage System Monitoring

SQLSENTRY **PerformanceAdvisor**® *for SQL Server*

- SQL Server + Windows Performance Dashboard
- Real-Time and Historical Performance Analysis
- Disk Activity, Latency, and Capacity Monitoring
- Top SQL Analysis Highlights Heaviest Queries and Execution Plans
- Graphical Blocking and Deadlock Analysis

SQLSENTRY **EventManager**®

- Schedule Management for SQL Server, SharePoint, Windows Task Scheduler, and Oracle
- Calendar Views of Top SQL, Blocks, Deadlocks, Jobs, SSAS, SSIS, and SSRS Events
- Easy Job Chaining and Queuing
- Robust Alerting and Response System

Free Trial Download:
sqlsentry.net

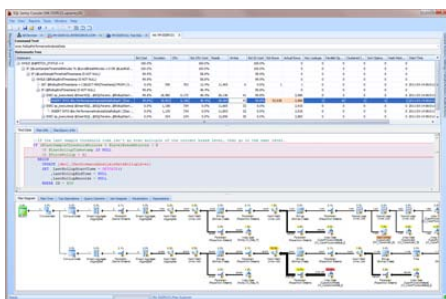
855-SQL-SPEED toll-free
(855-775-7733)



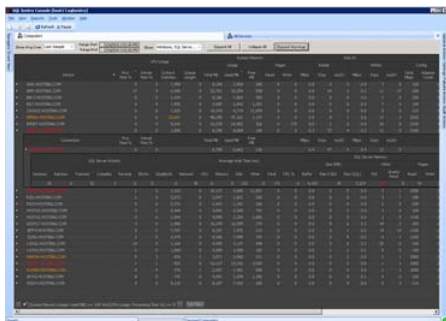
SQL Sentry PerformanceAdvisor® for SQL Server



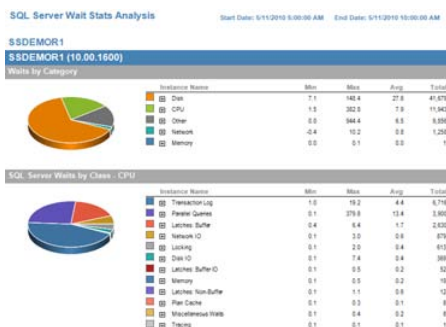
**Real-Time and Historical
Performance Analysis**



**Takes Query Plan Analysis
to a NEW Level**



**Global SQL Server and Windows
Performance View**



**Powerful SSRS-Based
Performance Reporting**

Performance Dashboard

- Monitors and displays the most important Windows and SQL Server performance metrics, side-by-side, in a single view.
- Real-time and historical modes to view performance metrics for any point in time or date range.
- SQL Server resource utilization is integrated into the Windows network, CPU and memory charts.
- Wait Type analysis shows both high-level and detailed resource utilization, giving you an instant profile for the SQL Server so you can monitor exactly which resources or subsystems may be causing slowdowns.
- The Windows Process Activity viewer shows CPU, paging, and other I/O metrics on a server with a single-click.
- Network utilization is broken down by SQL Server instance and by network adapter.
- Disk latency charts show you exactly how long reads and writes are taking for each disk and database file.
- New metrics are presented front and center for an instant warning of potential performance issues, including bookmark lookups, forwarded records, and I/O statistics for backup and restore operations.

Query Plan Analysis (SQL Sentry Plan Explorer)

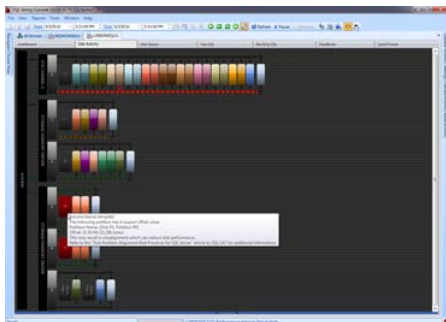
- The integrated Plan Explorer takes SQL query plan performance analysis to a level never before possible.
- Cost information is color-scaled so highest cost operations are instantly obvious.
- Improved layout algorithms render more of the plan in view, making navigation much easier even for large, complex plans.
- Plan information is continuously captured for heavy, slow-running, and poorly-performing T-SQL, providing a record of all plan changes so you can see how different plan versions impact SQL query performance.
- Plan CPU and I/O metrics are shown alongside operation totals, including lookups, scans, parallelism, sorts and more, so you can quickly find the heaviest plans.
- Plan Tree, Top Operations, and Query Column views are synchronized with the graphical plan diagram, letting you quickly view a plan from different angles.
- Instant access to important details previously buried in the plan XML make the query optimization process much more efficient.

Global Server Status View

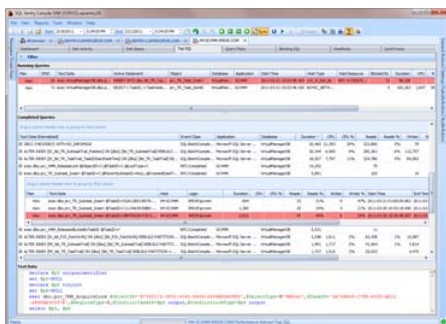
- View key performance metrics for all Windows, SQL Server, and SSAS servers across your enterprise in one view.
- Metrics and servers change color based upon predefined warning and critical ranges.
- Set custom filters for any metric or combination of metrics to show only servers requiring attention.
- See Windows resources consumed by each SQL Server and SSAS instance for network, CPU, and memory.

Performance Reporting

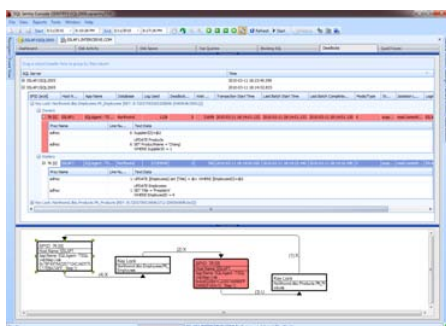
- Powerful SSRS-based performance reporting, including Global Server Status, Wait Stats Analysis, Disk Space, Database File Size, Top SQL, High VLFs, Misaligned Partitions, and many more.
- Custom Reporting:
 - o Performance Counter History report lets you report on any combination of servers, performance counters, and instances.
 - o Date Range Comparison report lets you compare performance across two different date ranges, using any metrics.
- Custom reports aren't limited to only Windows counters -- report on data collected from DMVs, WMI, and even internally calculated metrics like Waits by Category!
- Report on any date range, from 3 minutes to 3 years or longer.
- Easily save custom reports for future reference.
- Deploy reports to an SSRS instance, and create subscriptions to auto-email reports for any frequency, including daily, weekly and monthly.
- Export reports to PDF, Excel, XML, and other formats.



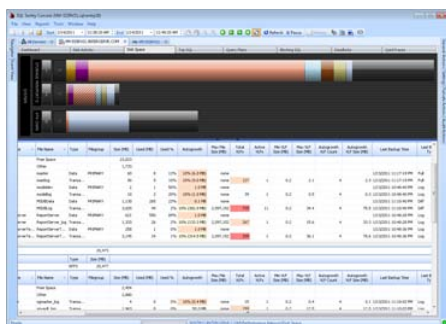
Disk Activity, Latency and Capacity Monitoring



Top SQL Analysis Highlights Heaviest Queries



Graphical Blocking and Deadlock Analysis



First Tool to Highlight Virtual Log File (VLF) Issues

SQL Server Disk Activity

- Patent-pending graphical view of server disk topology and activity.
- Highlights performance bottlenecks at the database file, physical disk, or controller level for SAN, NAS or direct attached storage.
- View disk bottlenecks in real-time mode, or historical mode for any date range.
- Identifies configuration problems, such as mixing busy data files and transaction logs.
- Mount Points and Fusion-I/O drives displayed alongside all other disks.

Top SQL

- Captures high impact stored procedures, batches and statements.
- Low-overhead tracing can be run 24/7 without impacting performance.
- Multiple executions of the same SQL are automatically normalized and aggregated to show which SQL is having the greatest impact.
- Runtime graphs show the recent trends of a particular query.
- View Top SQL on the SQL Sentry calendar alongside other events.
- Email and pager alerts whenever a query exceeds a threshold or contains specific text.
- Running queries are shown, auto-growth events are captured, and query plans can be viewed for running and completed queries. Blocked and failed queries are highlighted, and error information is provided.

Blocking and Deadlocks

- Hierarchical, comprehensive display of all blocking chains.
- Automatic resolution of Wait Resources provides instant view of the tables or indexes in contention.
- Graphical display of deadlock types, synchronized with a grid-based display.
- Deadlock nodes contain concise information to quickly visualize the deadlock and determine the root cause, as well as the order in which the locks were taken.
- View Blocks and Deadlocks on the SQL Sentry calendar alongside other events.
- Alerts whenever a block exceeds a specific duration, a deadlock occurs, or a blocking query or deadlock victim contains specific text.

Quick Trace®

- Instant picture of exactly which processes and applications are consuming the most resources.
- Automatically correlates trace and process activity data together.
- Totals are provided for CPU, I/O, network, batches, transactions, cache misses, recompiles, cursor operations, and more.
- Eliminates continual starting and stopping of Profiler, refreshing Activity Monitor, and tedious manual calculations.
- Automatic execution in response to many different conditions.

Calendar View

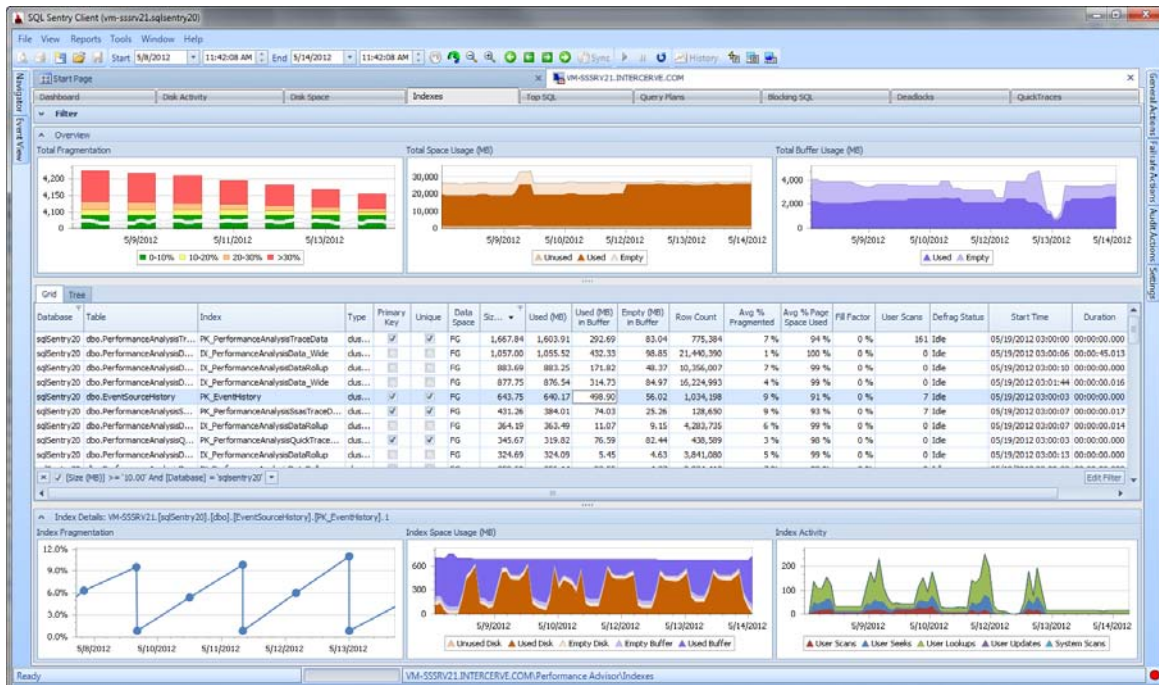
* Event Manager License Required

- See Top SQL, Blocking, and Deadlocks on the Outlook-style SQL Sentry Event Manager calendar, alongside SQL Agent jobs and other events.
- Chronological display of these types of events provides unparalleled insight into how they can impact each other and SQL Server performance which simply can't be ascertained from grids alone.
- Quickly jump back and forth between Performance Advisor and Event Manager via context menus and toolbar buttons.

SQL Server Disk Space

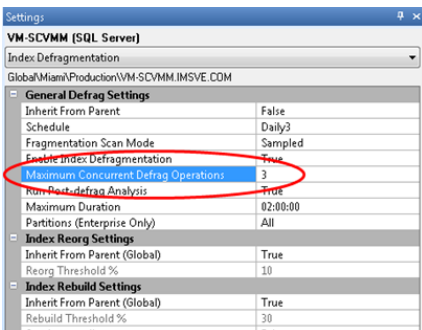
- Graphically displays disk space utilization by database and file.
- Monitor SQL Server disk capacity issues and understand where various database files reside on the disk I/O sub-system for SAN, NAS or direct attached disks.
- Too many transaction log virtual log files (VLFs) can be a significant hidden drain on SQL Server database performance. VLF statistics are shown alongside disk space usage, and problematic auto-growth and backup settings are highlighted.

SQL SENTRY® Fragmentation Manager

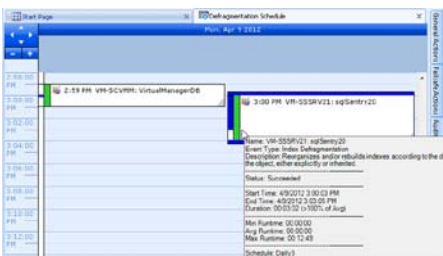


Automated Defrag

- Quickly and easily set up automated defrag schedules across your environment via point-and-click and drag-and-drop.
- Set specific schedules for different servers and databases, down to the individual table or index level as needed.
- Use different schedules for very large indexes that need to be analyzed and defragged separately.
- With full support for partitioning sliding window scenarios, selectively defrag only the max partition, or all others.
- Three alerting conditions keep you informed about the status of your defrag operations: Defrag Started, Completed, and Failure.



Multiple Concurrent Operations Speeds up Defrag Tasks



Calendar with Drag-and-Drop Rescheduling of Defrag Tasks

Index and Fragmentation Reports

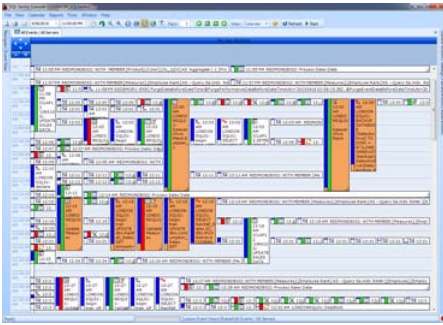
- Displays index-related statistics, from the computer level down to the individual index level, allowing you to quickly identify trends and diagnose problems.
- Displays the state of fragmentation on a server and helps you make good decisions about how and when to defrag indexes, adjust fill factors, or change index definitions.
- Multiple charts show used and wasted space, for both disk and buffer, at the table and index level.
- Index Space Usage shows you exactly how much of an index is on disk and in buffer over time, and how much disk and buffer space is wasted due to non-full pages.

Defrag Performance

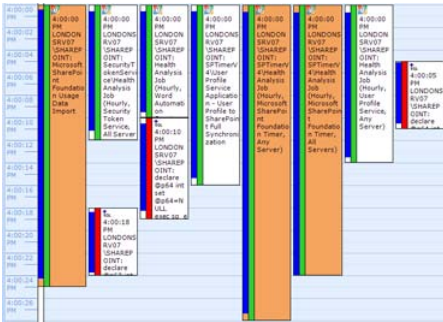
- By allowing more than one concurrent defrag operation, SQL Sentry Fragmentation Manager can dramatically speed up your defrag tasks, thereby reducing the maintenance window required for defrag.
- With the Performance Advisor dashboard and Disk Activity views, you can easily assess the impact of concurrency.

Defrag Calendar

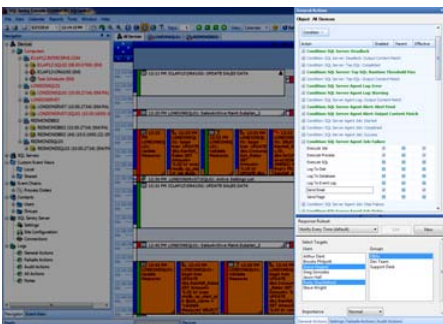
- Defrag events show up alongside any other scheduled events on Event Manager calendars, allowing you to correlate these operations with other events on your servers.
- You can also use drag-and-drop to reschedule future defrag tasks.



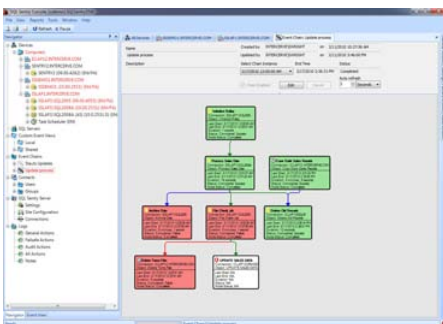
Calendar Views of Top SQL, Blocks, Deadlocks, Jobs, SSAS, SSIS & SSRS



SharePoint Timer Job Management



Robust Alerting and Response System



Easy Job Chaining and Queuing

Visual Schedule Management

- See your complex event schedules in a whole new light with Event Manager's robust, Outlook-style visual calendar with drag-and-drop rescheduling for SQL Server, SharePoint, Windows Task Scheduler, and Oracle.
- The flexible interface allows simultaneous display of multiple calendars and graphs, and supports both full and split screen modes.
- Slice and dice schedules across servers with the Global Calendar, Group Calendars, and Custom Event Views.
- Easily assess contention levels across shared resources such as file storage areas, tape libraries, and network segments.

Alerting and Response System

- Event Manager employs the most comprehensive and reliable notification system available today for SQL Server, SharePoint and Oracle.
- Provides a wide variety of response actions to any event status, runtime or performance condition.
- You can even generate notifications for Windows Task Scheduler, Reporting Services, and other event sources.

SSIS and DTS Support

- Enable detailed logging for both SSIS and DTS packages with a few clicks.
- View the results on the SQL Sentry calendar and history list views alongside any other events on a server.
- Accessing error details for failed package steps has never been simpler.

Chaining and Queuing

- Easily enforce dependencies between SQL Server, Oracle and Windows Scheduler across your environment.
- Event Manager is the first system enabling automation and integration across different scheduling systems, ensuring precise control over which events run and when.

Cross-Platform Support

- Using a plug-in architecture, Event Manager Enterprise Edition seamlessly integrates event data from SQL Server, Oracle, Windows Scheduler and others together in one console, so you get the full picture.
- Event Manager doesn't replace your existing schedulers, it makes them work better.

Reporting Services Support

- Provides complete scheduling, monitoring and notification features for SQL Server Reporting Services.
- Enables a DBA to view all Reporting Services events on the Event Manager calendar, monitor their impact on performance and set notifications ensuring awareness of any issue.
- Maps the awkward job GUIDs to friendly report names, and performance counters can be linked to any Reporting Services task, including individual subscriptions and report execution snapshots.

Schedule Performance Monitoring

- Link any Windows performance counter directly to an event or custom view and see the impact any combination of events is having on Windows servers or shared resources.
- Counters are instantiated as needed for minimal server and network overhead.

Schedule Reporting

- Event runtime graphs enable quick trend analysis.
- Gantt-style performance graphs highlight the events competing for resources and causing end user performance problems.
- Event history and other list views can be easily exported to .HTML, .XML, or .CSV format.



**Captures and Aggregates
All High Impact SSAS Commands
(MDX, DMX and XMLA)**

Performance Dashboard

- Dashboard for SSAS with both Windows and SSAS performance metrics side-by-side, providing a full picture of how SSAS is utilizing available network, CPU, memory and disk resources for any interval or over any date range.
- Easily see how querying and processing tasks are utilizing and competing for the same resources, leading to reduced querying or processing performance.
- Innovative performance profiling highlights bottlenecks in the formula engine, storage engine, or elsewhere over any date range.
- Captures and aggregates all high impact SSAS commands (MDX, DMX and XMLA), showing top commands by CPU and I/O usage.
- Pinpoint problems with SSAS queries, and see exactly how much formula and storage engine time each query is using, as well as the most heavily used partitions and aggregations.
- Generate alerts for SSAS commands and runtime deviations.
- View SSAS internal cache activity, including hit ratios for all cache lookup types, as well as cache growth/shrinkage.
- View SSAS-related disk activity and system file cache usage, including file cache hit ratios.
- View SSAS commands on the Event Manager calendar, side-by-side with all other jobs and performance events on a server.
- Create custom calendars combining all SSAS, SQL Server, SSIS, and SSRS events for a data warehouse.
- Monitoring and alerting for SSIS data warehousing jobs and SSRS reports

SQL Sentry BI Suite

The SQL Sentry BI Suite provides a complete performance monitoring and optimization solution for the entire Microsoft BI platform by combining SQL Sentry Event Manager, Performance Advisor for SQL Server and Performance Advisor for Analysis Services .

