



Database Access Auditing: Usage Management



Product Benefits

- Improve business performance and user experience
- Comply with service level agreements
- Increase efficiency
- Control costs
- Identify hot spots of usage
- Find dormant or redundant data
- Track applications being used
- Free up system resources during peak usage
- Identify security issues
- Know when to develop new summary tables and indexes
- Assure data privacy and regulatory compliance
- Identify user training needs

Data Drives Business Today

In business, data is paramount. Your company relies on quick access to critical data to process transactions and, more importantly, make informed business decisions. But that data is frequently distributed across multiple transaction databases, data warehouses/ data marts, and departmental databases. In addition, server upgrades, new users, company and department reorganizations, and ever-increasing demands for information create a constantly changing—and increasingly complex—data environment.

As an IT Director, you already know you need to monitor your databases to ensure uptime, access and performance—not to mention user satisfaction. But *traditional* monitoring is no longer enough—IT Directors clearly need to do more than just understand the internal functioning of the database management system.

You Need A View of How Your Business Uses Data

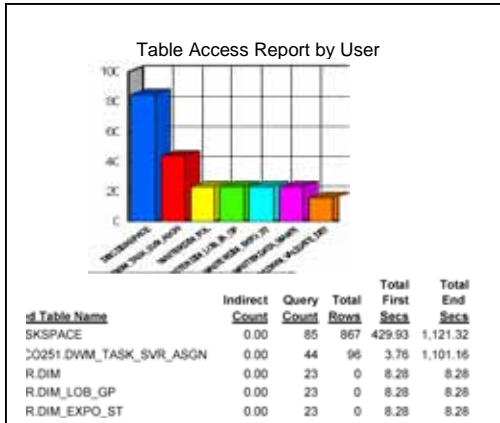
In today's world, where the only constant is change, you need a comprehensive view of how your business uses its data. You need real-time and historical insight into who is using the data, when, where, how and for how long. You need to take actions necessary to manage the usage of your data. And you need to make regular improvements that will ensure peak performance of your database and mission-critical applications across the enterprise.

Proactively Manage your Data Environment with Ambeo

Ambeo's innovative suite of Database Access Auditing products allows you to move beyond monitoring and proactively manage your data environment—no matter how complex. You can make truly informed decisions to manage your data and assure optimal performance.

Ambeo Database Auditing software products include two client applications - **Activity Tracker™** and **Usage Tracker™**. These applications include a *standard set of monitoring templates* with Activity Tracker and a *standard set of reports* with Usage Tracker. Other third party reporting tools can be used to view the usage data stored in the Ambeo Usage Tracker Repository.

Ambeo also offers the **NetServer**, a self-contained hardware/software package that brings all the power of our Database Access Auditing Solutions software together in one easy-to-install network appliance solution.



Usage Tracker is a software solution that audits, measures and benchmarks all interaction between your users and the multiple databases throughout your organization. By tracking historical access to your data, you can understand who is using what data, when, from where, how and with what application, giving a comprehensive view of data usage across the enterprise.

Usage Tracker identifies:

- What data is being used?
- Who is using the data?
- When are they using it?
- Where are the accesses coming from?
- What kinds of changes are being made?
- What kinds of activities are occurring?
- What data is not being used?

Usage Tracker works by “listening” to every SQL query or database request submitted by the end user, excluding those that you are not interested in tracking. Information about the queries is then stored in an Ambeo repository. Usage Tracker reports on data usage activity down to the table and column level, and provides a broad range of statistical information, including, for example, database user names, query source network ID, response times, number of rows and bytes returned, and applications used.

The Ambeo Usage Tracker contains a set of standard reports that allow you to track or summarize usage on a daily, weekly, or monthly basis, and you can analyze activity by end-user department or work location. Because the Ambeo usage data is stored in relational tables, you have the flexibility to use the Ambeo provided reports or other third party reporting tools to view the usage data stored in the Ambeo Usage Tracker Repository.

The Usage Tracker standard reports allow you to:

- Identify where to create summaries, add indexes, restructure your data, or manage hot spots.
- Find opportunities to archive dormant or unused data.
- Monitor application utilization for end user training and software license management.

Comprehensive Database Access Auditing Solutions

Whether used alone or in conjunction with Activity Tracker for real time query monitoring, Usage Tracker is an essential tool to proactively and cost-effectively manage your database environment.

Typical Applications:

- Table/Column Usage Patterns
- Index Analysis
- Aggregation Analysis
- Application Identification
- Query Performance
- Query Activity Trends
- Capacity Planning
- Peak Usage Trends
- Data Privacy Audits

Examples of Standard Reports:

- Query Response Times
- Query Status
- Most Active Users
- Key Commands by User
- Applications Used By User
- Longest Running Queries
- Daily Usage
- Hourly Query Activity
- Most Frequently Selected Tables and Columns
- Most Frequent Table Joins
- Unused Tables/Columns
- Many more....



Activity Tracker



Typical Applications:

- Service Level Compliance
- Streamlining Queries and Reports
- Unauthorized Access Monitoring
- Performance Improvement
- Help Desk-Tier 1 Support and Triage

Sample Activity Tracker Metrics:

- Query Text
- Query Status
- Query Time
- Query Command
- Session ID
- Session Status
- Rows Returned
- Bytes Returned
- Packets Returned
- Queries Started
- Queries Running
- Queries Finished
- Client and Database User ID
- Client and Database Node ID

Activity Tracker is a real-time software solution that audits, measures and benchmarks the interactions between your users and all of the databases throughout your enterprise. With the continuous flow of information that Activity Tracker provides, you can quickly gain visibility into business usage and data access to determine the best ways to ensure seamless operations, improve IT planning and cost-effectively allocate resources.

Activity Tracker provides real-time and recent history information on an interactive, configurable console about data activity including:

- Who is using the data?
- What thresholds are being exceeded?
- What SQL statements are running?
- How long have queries been running?
- How much data is being returned?

Activity Tracker provides the following features:

Continuous Monitoring and Playback

Activity Tracker is non-intrusive so it can be used on-demand or can be left running all the time. You can track activity in real-time or use the playback feature to review recent activity. You can also pause and resume to review activity on the fly without losing any data.

Configurable Display

The information that Activity Tracker gathers is displayed on the Activity Tracker Console, a highly configurable display. It can show any of the monitored activities in a variety of graphical and tabular formats and thresholds can be configured to alert support staff or perform various other actions. In addition, alerts and other data can be output to log files for easy reference.

Dynamic Aggregation

Activity Tracker dynamically aggregates data usage statistics in real-time, letting you slice and dice the usage patterns by user, database, DBMS-type, command-type, and many other dimensions.

Advance Notification of Problems

Activity Tracker can identify and provide advance notification of problems such as slow database performance before users even know there is a problem. If thresholds are about to be exceeded, Activity Tracker can notify you by email or pager, or activate programs, helping you to focus quickly on analyzing and resolving the specific problem. Its shareable templates also allow for clearer communication between the help desk and the data support staff for quicker resolution to end user problems.

Comprehensive Database Access Auditing Solutions

Whether used alone or in conjunction with Usage Tracker for historical trending and reporting, Activity Tracker is an essential tool to proactively and cost-effectively manage your database environment.



NetServer

Operating Environments

Databases Supported:

- Oracle
- Teradata
- DB2/UDB
- Informix
- Sybase ASE
- Sybase IQ
- MS SQL Server

Platforms Supported:

- HP-UX
- HP Tru64
- IBM UNIX
- NCR MP-RAS
- SUN Solaris

NetServer for True Zero Overhead™

The Ambeo NetServer is a self-contained, low-cost hardware/ software package that provides database access auditing and data usage monitoring for many popular DBMS types.

Each NetServer is pre-configured and optimized to run Ambeo's **Usage Tracker™** and **Activity Tracker™** software, providing several benefits over software-only deployments, including:

- Processing is offloaded from more expensive hardware platforms
- Installation is quick and easy
- Simplified software management using a browser-based management console

The NetServer audits and monitors database usage by listening to all network traffic to and from one or many database servers. The NetServer obtains the traffic using:

- Monitoring network taps, or
- Monitoring network switches, or
- Bridging through the NetServer.

Many monitoring solutions slow down your systems, taking up valuable system resources and reducing performance to unacceptably low levels. The NetServer requires no system resources to monitor SQL activity and provides a **True Zero Overhead™** solution for privacy and regulatory compliance management.

Database Access Auditing Solutions Summary

Ambeo Database Access Auditing Solutions provide real-time and historical insight into who is using your data, when, and from where. A comprehensive view of how your business uses its data and making that information easy to understand is critical—and *that's* what Compliance, Security and IT management get with Ambeo.

About Ambeo

Since 1997, Ambeo's solutions have provided database access auditing for data privacy, regulatory compliance, and usage management to Fortune 1000 companies with some of the largest database environments in the world. Ambeo's True Zero Overhead™ solutions provide information about how users actually interact with data, the crucial element of any IT compliance strategy. Compliance, Security and IT management now have the visibility required to confirm regulatory compliance, protect data privacy, reduce risk of unauthorized data access, proactively manage data environments, and maximize database investments.

For more information contact:

Ambeo

5353 N. Union Blvd., Suite 103
Colorado Springs, CO 80918

phone: 719.548.7400

email: sales@ambeo.com

website: www.ambeo.com