



## Database Access Auditing: Data Privacy and Regulatory Compliance

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### Product Benefits

- Assure data privacy
- Provide proof of regulatory compliance
- Reduce the risk of unauthorized access and use of your data
- Monitor, track and audit all data accesses, and changes to your data and database
- Gain real-time and historical insight into every access to your data

### Is Your Data At Risk?

Your company faces a dilemma: your people need quick and easy access to data to make informed business decisions, but your company needs to assure data privacy to prevent fraud, misuse, and unauthorized exposure of personal information. Data loss disrupts operations, affects your credibility with customers, and creates legal liability, not to mention affecting the financial performance of your business.

You already know that you need to protect sensitive data, so you have safeguards in place such as user authentication and access controls. Such conventional safeguards are necessary—but *not sufficient*.

Would you know if an unauthorized person were looking at your data? Could a password have gotten into the wrong hands? Could an *authorized* user access sensitive data from a remote location after hours?

Data can be compromised and the risk comes primarily from current or former insiders. You need to know who has been looking at your data and what has been done.

Comprehensive, non-intrusive database access auditing is the only way to reduce risk, assure privacy, detect data theft, and provide proof of regulatory compliance.

### How Can You Know Who Is Using Your Data?

You need a solution that monitors every access to your sensitive data—one that watches and records all accesses for audit purposes and brings “unusual” accesses to your attention. When you are aware of who is viewing and changing your data, you know the integrity of your data is being preserved.

Ambeo Database Access Auditing Solutions for data privacy and regulatory compliance provide you the assurance that your data is secure and being used correctly.

### Proactively Protect Your Data Environment

Ambeo’s innovative suite of Database Access Auditing products allows you to proactively manage and protect your data environment—no matter how complex. By monitoring, auditing, recording, and reporting on each access to your sensitive data, and identifying any access issues, you can assure only authorized use of your data.

Ambeo Database Access Auditing Solutions consist of two software products—**Usage Tracker™** and **Activity Tracker™**. These products include real-time alerting for unusual query activity and a comprehensive set of reports for analysis of data usage and end-user access. Ambeo also offers the **NetServer**, a self-contained hardware/software package that brings all the power of our Database Access Auditing software together in one easy-to-install network appliance solution.



### Typical Applications:

- Regulatory Compliance Audits
- Confirm Adequacy of Security Measures
- Identify Possible Fraudulent Use of Legally Protected Data
- Data Privacy Audits
- User Identification

### Examples of Standard Reports:

- Most Active Users
- Table Accesses by User
- Column Accesses by User
- Commands by User
- Applications Used by User
- Longest Running Queries
- Daily Usage
- Hourly Query Activity
- Most Selected/Accessed Tables and Columns
- And more....

Usage Tracker is a software solution that audits, measures and benchmarks the historical interaction between your users and the multiple databases throughout your organization. By tracking historical access to your data, you can determine who is using your data, when and from where, how and with what application, to make strategically sound security, privacy and compliance decisions.

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?

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, logon attempts/failures, type of access, timestamp, and table or columns accessed.

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 database instance, database type, type of access, end-user department and more. 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 unusual accesses to your data
- Identify unauthorized users
- Identify suspicious data access
- Audit who is touching your data
- Verify appropriate changes to data

### **Comprehensive Database Access Auditing Solution**

Whether used alone or in conjunction with Activity Tracker for real time query monitoring, Usage Tracker is an essential element of any IT privacy and compliance strategy.



## Activity Tracker



### Typical Applications:

- Unauthorized Access Monitoring
- Data Privacy Auditing
- Regulatory Compliance Confirmation
- Data Protection

### 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 User ID
- Database User ID
- Database Node ID

Activity Tracker is a real-time software solution that audits, measures and benchmarks the real-time interaction 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 data access to determine the best ways to assure data privacy, audit and prove regulatory compliance, protect your data and identify who is using what data.

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 queries have 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 reviewing 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 privacy or compliance officers of possible unauthorized activities. 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 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 for quicker identification of possible privacy problems.

### **Comprehensive Database Access Auditing Solution**

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 the protection of your data.



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 usage management 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 database access and usage tracking.

### Database Access Auditing Solutions Summary

Ambeo's suite of Database Access Auditing Solutions software provides 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 to protecting your data—and *that's* what you get with Ambeo.

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### 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.