



FairWarning Relies on MySQL to Automate HIPAA Healthcare Security Compliance



Healthcare

OS: Red Hat Enterprise Linux

Application Server: Tomcat

Database: MySQL Embedded Server

Language: Java

"We tested multiple database solutions. Based on price, performance and functionality, there were no databases that could compete with MySQL."

Kurt Long

CEO and Co-founder
FairWarning, Inc.

FAIRWARNING®

FairWarning Overview

FairWarning® is the world's leading supplier of healthcare privacy auditing solutions for Electronic Health Records (EHR). When the U.S. Department of Health and Human Services (HHS) introduced the Health Insurance Portability and Accountability Act (HIPAA), it established standards for healthcare providers to protect the confidentiality and security of patient information in EHRs. FairWarning's solutions are helping healthcare organizations across the United States like MemorialCare®, Saint Luke's Health System, and Columbus Regional Hospital not only pro-actively detect medical security violations but also save them millions of dollars by automating the manual processing of audit logs across a wide range of applications and systems. FairWarning relies on MySQL to process terabytes of medical records audit data to identify security breaches such as medical identity theft and record snooping.

The Business Challenge

HIPAA mandates the protection of private patient health information by requiring healthcare organizations to audit transactions from all systems which access protected health information, as well as implement procedures to prevent, detect and correct security violations. Without an automated privacy auditing solution, these manual activities are incredibly time consuming and tedious to conduct. Healthcare providers are under increasing pressure beginning in early 2008 when the U.S. HHS started to proactively audit healthcare organizations on site. Without an automated auditing solution, this can cost an organization 10,000 hours per year amounting to millions of dollars in overhead expenses. These compliance requirements apply to healthcare providers of all sizes, so FairWarning needed to find a solution that was both affordable for the smallest healthcare provider and would scale to meet the demands of the largest providers with dozens of hospitals and facilities.

The MySQL Solution

FairWarning's flagship product, FairWarning Essentials is a turnkey appliance for EHR auditing, enabling organizations to detect and investigate suspicious medical record snooping activity and to automate HIPAA audit requirements. FairWarning Essentials continuously collects audit logs from a range of applications including GE, Cerner, Epic Systems and McKesson and relies on MySQL as a high performance and scalable database to continuously aggregate, search and report on terabytes of patient data. This allows auditors to quickly research incidents, as well as employee access to private health information. MySQL handles millions of database inserts per day and enables FairWarning Essentials to process over 1 billion rows of data containing patient record activity. After evaluating multiple database solutions, FairWarning found that no other database offering could compete with MySQL's price, performance and functionality. This enabled FairWarning to provide a cost-effective solution that would also meet the high scalability demands of the largest healthcare providers.

MySQL Embedded Server for OEMs, ISVs, and VARs

MySQL Embedded Server is a full-featured, zero administration database that enables ISVs and OEMs to bring their applications and solutions to market faster. MySQL's small footprint, zero administration and support for 20+ platforms gives ISVs and OEMs ultimate flexibility to ship a highly reliable SQL compliant, transactional database with just about any software application or hardware appliance.

MySQL Embedded Server enables OEM/ISV/VARs to:

- **Reduce COGS and improve profitability** by embedding a cost-effective database without artificial license restrictions on CPU, memory, and servers
- **Bring applications to market faster** by embedding a proven database rather than building and maintaining a proprietary database in-house
- **Deliver a differentiated solution** that can capture, store and report on data with speed and granularity by embedding a full-featured, relational database
- **Win competitive comparisons** using a SQL compliant, relational database with superior performance and reliability
- **Deliver a Zero Administration solution** so that their customer don't have to hire dedicated DBA resources
- **Make reporting and analysis easy** using a cost-effective open source reporting solutions like Jasper for MySQL: OEM Edition.

MySQL Embedded Server is Ideally Suited for:

Software Applications

- Network & Performance Management
- Monitoring Systems
- CRM & ERP
- Educational Software
- Email, Anti-spam software
- VoIP & Online Messaging
- Healthcare & Practice Management
- Biotech

Hardware Appliances

- Networking Equipment
- Routers & Traffic Controllers
- Security Appliances
- Retail Kiosks
- Point-of-Sale (POS) Systems
- Diagnostic Instruments
- Sensory Devices
- And more...

About MySQL

MySQL is the most popular open source database software in the world. Many of the world's largest and fastest-growing organizations use MySQL to save time and money powering their high-volume Web sites, critical business systems, and packaged software. At **www.mysql.com**, Sun provides corporate users with commercial subscriptions and services, and actively supports the large MySQL open source developer community.



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