

BMC SOFTWARE

Meeting Sarbanes-Oxley Compliance with IPLocks

In today's environment of increasing government regulations, battling to meet compliance regulations can be arduous and time consuming. Auditors have high expectations for IT controls and reporting across the enterprise. Like most companies, BMC Software struggled to find a cost-effective way to meet auditor expectations. BMC chose IPLocks to help them strengthen IT controls for security and SOX compliance.

Challenge: Stronger Controls for Sarbanes-Oxley Compliance

BMC needed to establish stronger controls and business processes in order to fulfill Sarbanes-Oxley (SOX) requirements. BMC had relied on time-consuming manual processes for tracking database changes and finding security policy violations. BMC's manual processes could not guarantee the completeness and accuracy required in support of SOX compliance. While BMC never had a major security breach or material deficiency, the lack of automated database monitoring was a risk BMC wanted to address.

Solution: IPLocks Audit Center

BMC chose IPLocks Audit Center to improve the strength of internal controls for database change management and database security. The first step of the implementation process was to determine BMC's most critical business databases as they related to SOX. These databases included a large Oracle Financials implementation, a Siebel Sales system, and custom databases to manage expense reporting and professional services data.

BMC determined that these systems were at the greatest level of risk for fraud and malicious acts since they contained highly sensitive data and, if a security breach ever occurred, there could be a significant and adverse impact on BMC's business. While other databases existed, BMC used IPLocks to secure these critical databases.

BMC Monitors Database Changes and User Activity

IPLocks Audit Center enables BMC to automatically identify and record changes to tables, stored procedures, and other metadata as well as monitor end-user activity for potential security breaches.

BMC's large databases may have thousands of changes. For example, more than 900 BMC employees have

BMC Software is a \$1B+ Fortune 1000 company and a leading provider of enterprise management systems.



access to the sales and customer databases. To deter fraud and prevent misuse, BMC needs to closely monitor changes to database access privileges and database schema updates (ex - a stored procedure is changed; a table is altered). The volume of activity requires results to be filtered according to the level of risk. Important changes are flagged for review while routine processes are filtered out.

BMC also relies on IPLocks to keep vigilant watch for unusual user activity. IPLocks continuously monitors data access to ensure there are no security breaches and that BMC employees follow security policies. Security personnel are immediately alerted upon detection of any unusual activity, like a suspiciously high number of users connecting with the same user name and password.

“IPLocks enables us to proactively manage database risks and automate data collection procedures required by auditors for Sarbanes-Oxley compliance.”

Randy Sheers
Manager, Database Administrators

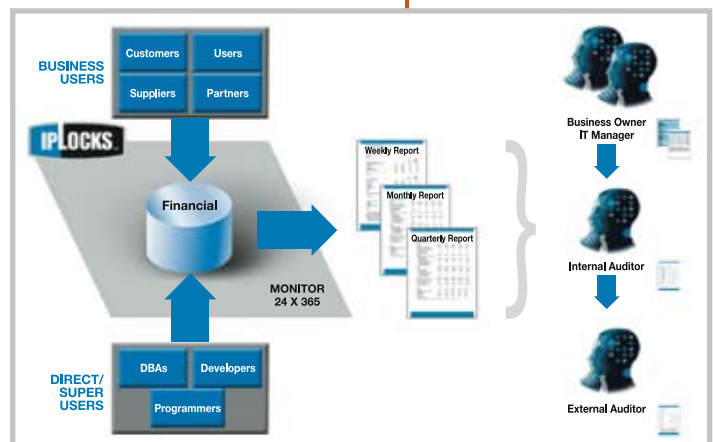
Stronger Controls without Application Changes

Because of IPLocks non-intrusive architecture, these enhanced internal controls were implemented without any changes or risk to existing applications. BMC chose to use Oracle Audit in conjunction with IPLocks. The resulting performance and resource overhead was an inconsequential amount -- less than three (3%) percent.

Creating and Simplifying the SOX Audit Trail

For the new internal controls and compliance policies, all alerts and policy violations are stored in IPLocks, providing an independent repository of audit data. BMC distributes IPLocks reports to business managers who review the activity and approve each report. Managers must note whether or not remediation actions should be taken. This process ensures that management are informed and actively involved in improving security and compliance levels.

BMC’s focus has been on SOX compliance. Moving forward, BMC plans to improve security and create additional sustainable compliance controls, such as implementing IPLocks Vulnerability Assessment to harden databases against attack and build trendlines for database security. This will improve BMC’s security and compliance and demonstrate progress to auditors.



Summary

For companies like BMC, who undergo expensive annual audits for SOX compliance, reducing the cost and improving the value of internal controls is a top priority. Initially, SOX requirements seemed overwhelming and time consuming, but automating IT controls and business processes with IPLocks was a cost-effective way to make IT more efficient and accountable. Through the inherent separation of duties and stronger IT controls, IPLocks Database Security and Compliance solution is helping BMC to win the SOX compliance battle.