



Preventing Insider Fraud at Healthcare Insurers & Providers

The Insider Threat

Healthcare Insurers and Providers around the world are facing a growing threat to their assets and brand from within – their own management and employees. Fraud and information leakage committed by knowledgeable and capable employees who utilize their knowledge of IT systems and controls to manipulate internal systems can cause much greater damage than third parties. The various inside fraudulent activities include manipulating financial statements, misappropriating assets, selling patient private data, and others. Beyond fraud, there could also be noncompliant transactions in the form of errors or intentional overrides.

The HIPAA Security Rule

The HIPAA Security Rule requires healthcare organizations to "Implement hardware, software, and/or procedural mechanisms that record and examine activity in information systems that contain or use electronic protected health information." (Section 164.312). This requirement is challenging, especially for organizations that rely on heterogeneous platforms including legacy systems as these systems typically do not provide sufficient application access logging. Developing such a mechanism, involves tremendous effort and cost, potentially altering thousands of programs. Mechanisms that track changes to corporate databases are not sufficient, as they typically track update transactions but do not capture critical "read-only" access to data. In addition database monitoring solutions typically lack the ability to capture the actual user-id who accessed the information, as most applications use generic user-id when accessing the database.

The Intellinx Cross-Platform Solution for Internal Fraud Detection

Intellinx presents a breakthrough in insider threat detection and prevention. It provides a first-of-its-kind cross-platform surveillance system for unparalleled visibility of end-user activity in corporate applications across the enterprise. The Intellinx Solution provides a critical infrastructure for combating internal fraud and information leakage, making authorized users accountable for their actions. Intellinx is the only product on the market today that provides the following:

- **Unparalleled Visibility to End-User Activity** - Complete visibility into end-user activity is provided with visual replay of every screen and keystroke and client/server message in every application across all major platforms. All actions are visible, including update and read-only actions. All types of end-users are tracked including privileged end-users such as System Administrators and Database Administrators that may pose a higher risk as they have higher authorization levels.
- **Complete Audit Trail** - Intellinx records the full user activity 24x7, not just events detected as suspicious in real time. This is crucial for making end-users accountable for their actions. Regardless of whether appropriate rules are in place at the time of an event, post-event replay enables forensic investigation at a later time.
- **Cross Platform Search including Legacy** - Intellinx provides a unique solution for tracking user activity across all major platforms including mainframe, iSeries, Web, Client/Server and more. It allows you to search for any specific value displayed on any user screen across multiple platforms from one simple query screen. The Intellinx rules track cross-platform business processes. For example, a business process tracked by Intellinx may start on iSeries, continue in a client-server application and end on the web.
- **User Behavior Profiling at the Application Level** - Intellinx is the only solution on the market that analyzes the user activity at the application screen level (not at the network or database level). Intellinx rules track all user keystrokes and the flow of screens accessed by the user, detecting the relevant business process including each field value accessed or updated. This information is correlated in real-time with the activity of other end-users, with previous activity and other types of information generating alerts on suspicious behavior near real-time.

The Challenges

Following are several examples:

Identity Theft

A healthcare provider employee browses through hundreds of customer accounts and photographs them with his mobile phone camera, then sells this information on the market. How can you detect it in real-time?

Disclosure of Sensitive Health Information

A hospital employee searches for an HIV diagnosis of specific patients according to their names, copies this information and sells it to private detectives. How do you stop it?

Leaking Information of Celebrities

A high ranking army general had a nervous breakdown and was hospitalized at a sensitive time and the information is leaked to the media. How do you find who did it?

Privileged User plants a Logical Bomb

A disgruntled programmer plants malicious code which sporadically deletes customer accounts. To cover his traces he compiles the program, removes the malicious code from the program source, then saves the clean source. How do you reveal what he did?

Double Billing

A hospital employee double bills both Medicare or Medicaid and the recipient for the same health care service, then diverts one of the payments received to a third party. How do you detect it?

Intellinx Out-of-the-Box

Intellinx provides exceptional business value out-of-the-box. Immediately following installation (which typically takes just a few hours), Intellinx begins capturing all cross-enterprise user activity, allowing internal auditors to perform thorough investigations with complete visual replay. Security officers can immediately search for all user screens in which specific values appeared during a specific timeframe in any application across any platform in the enterprise. Organizations begin benefiting from Intellinx without delay, with no need for time-consuming integration with any of the organization's systems or application-related configurations.

Who?

Did What?

When?

To Which Data?

From Where?

How?

Unique Business Value

Intellinx provides a unique business value to leading healthcare corporations around the world:

- Deter potential fraudulent users just by knowing that all their actions are recorded.
- Protect the Corporate Brand and market value from damage caused by bad publicity following cases of information leakage and identity theft.
- Reduce Internal Fraud Losses by detecting fraud and other malicious activity in real-time. The US Association of Certified Fraud Examiners estimates in its 2006 report that companies in the US lose on average 5% of their annual revenues to occupational fraud, most of it performed by the companies' employees. Saving even a fraction of it thanks to Intellinx, justifies the investment in implementing Intellinx.
- Comply with HIPAA and other regulations by generating a detailed cross-platform audit trail of any access to protected health information including queries without changing a single line of code.
- Improve internal audit effectiveness by alerting on suspicious user behavior and providing full visibility for the internal auditors of all the actions of each specific suspicious end-user, as if looking over his or her shoulder.
- Enforce corporate security policies by detecting security breaches and exceptions.

About Intellinx

Intellinx Ltd. is the innovative leader in end-user behavior tracking solutions for safeguarding against insider fraud and other types of fraud. The Intellinx solution enables organizations to address the challenge of internal fraud and information leakage committed by legitimate end-users who are authorized to access internal business applications. Intellinx Ltd. was formed in January 2005 from Sabratec Ltd., a leading provider of legacy integration solutions. Following the acquisition of Sabratec Ltd. by Software AG in January 2005, the Intellinx division, which was not part of this acquisition, was recreated as an independent company. Intellinx Ltd. products are sold and supported directly by the company, its US-based subsidiary Intellinx Software, Inc., as well as through its worldwide network of partners. Intellinx is recognized by leading analyst firms including Gartner and IDC as an innovative leader in the area of insider threat solutions. Gartner listed Intellinx as a "cool vendor" in 2 categories in 2006: 'Security & Privacy' and 'Application Development'.



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