FORTRA

SOLUTION BRIEF (TRIPWIRE)

Leveraging the Power of File Integrity Monitoring Using Tripwire Enterprise to Detect Change and Make it Actionable

With pressure on IT departments to remain lean and efficient, comply to policies and regulations, and also provide reliable 24/7 service, it is imperative that companies large and small adopt solutions and processes to ensure a known and trusted state at all times. With the reliance on technology to conduct business, interact with customers, and meet auditing requirements, "store doors" need to remain open at all times. That's why thousands of organizations worldwide have turned to Fortra's Tripwire for IT security and compliance automation solutions that detect and identify the changes that can jeopardize compliance, security and operations.

Do You Know What Changed, Who Changed It, and When?

File integrity monitoring (FIM) is a method for tracking every change made across the data center. Some IT managers may wonder why it is important to know about every change, especially given that most systems experience hundreds, thousands, or even tens of thousands of changes every week. To auditors, tracking every change is crucial, as uncontrolled change means risk. A handful of risky changes that can cause system failure, and just one illadvised change can lead to compliance degradation, security vulnerabilities and service availability issues.

With FIM, there is complete visibility to all change, a record of who made changes, and an audit trail that gives you the data to quickly troubleshoot problems—suspect changes can be quickly identified and resolved. Being able to quickly pinpoint problem changes and streamline the troubleshooting process is one of the most effective uses of change auditing. But as Tripwire's customers have discovered, the benefits an IT organization receives from their security and compliance automation solutions are much more far-reaching. "Tripwire Enterprise acts like a radar gun, constantly on the alert for unauthorized and undocumented change. It's nice to know I don't have to worry about unknowns. All I have to do is look at the Tripwire report."

> -**VML,** Full-service digital marketing agency

Tripwire: The Pioneer in File Integrity Monitoring

Tripwire provides software solutions to help you achieve and maintain the integrity of all your IT configurations. File integrity monitoring makes change visible by detecting all changes across the breadth and depth of the data center, including virtual environments. It scans systems to create a baseline report, then compares subsequent scan results to that baseline and reports changes, resulting in a verifiable audit trail and version history of each system's state.

Tripwire® Enterprise accommodates a broad range of userdefined policy criteria to enable its automated filtering of changes. Authorized changes can be defined in a variety of ways: those made within specified time windows, made by authorized users, correlated to change tickets and/or matching pre-tested changes, etc. Tripwire Enterprise also takes into account that not all changes are equal. It can enforce specific criteria based on the type of change (e.g., "Business As Usual" vs. Emergency) and type of system (e.g., a SOX server vs. email server).

Those customers wishing to complement their change and configuration automation tools with Tripwire Enterprise do so by using Tripwire's integrations with popular enterprise change ticketing systems, such as BMC Remedy and HP OpenView. A flexible API is also available to facilitate integration with home-grown solutions. Tripwire's standard integration methods, including Tripwire Reconcile Express, make it easy to align security and compliance automation with your existing processess.

The Role of Change Audit in Security, Compliance and IT Operations

High performing IT organizations know that to help avert data center problems, they must have complete visibility of change. This visibility helps them maintain a known and trusted state for compliance, security and IT operations.

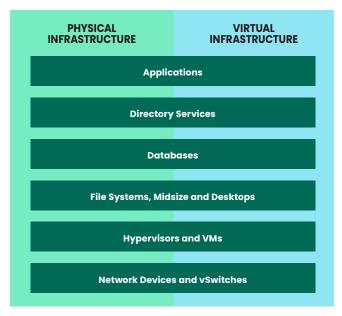
Security

Security professionals widely recognize that IT configuration integrity is fundamental to a sound security strategy. FIM is core to a security plan since intrusions may occur for an indefinite amount of time without change auditing actively monitoring the enterprise. Tripwire Enterprise not only tracks every change made across the IT infrastructure, in both physical and virtual environments, it lets you know what changed and who made the change. This information is provided through Tripwire reports and dashboards, which can be customized to your needs (such as severity of risk). Knowing who made the changes can also be used to review access privileges.

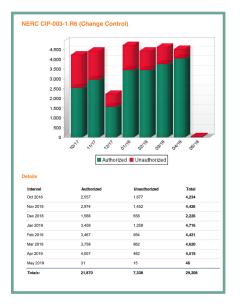
CHALLENGE	HOW TRIPWIRE ENTERPRISE HELPS
80% of unplanned downtime is caused by unauthorized change	Tripwire Enterprise tracks every change across the data center, alerting you to unauthorized or suspect changes that can cause downtime. Tripwire file integrity monioring is completely tunable to your processes.
80% of the time taken to restore services is spent discovering what changed	Tripwire Enterprise lets you know what changed, when it changed and who made the change. This drastically reduces firefighting, troubleshooting and mean time to repair.
Intrusions may occur for an indefinite amount of time without notice	Tripwire's file integrity monitoring automatically and actively monitors the enterprise for suspect changes, alerting staff for immediate investigation and remediation.
Change and configuration management processes are frequently circumvented, leading to unauthorized change that increases the risk of system compromise	Tripwire Enterprise ensures that all changes are made through expected tools and processes by automatically correlating changes with other configuration and change automation systems in order to better identify authorized and unauthorized change.
Auditors are increasingly aware that strong IT controls are predicated on strong change and security controls	Tripwire Enterprise's automated change detection, ongoing documentation of change history and online reporting capabilities provide preventive and detective controls that continuously ensure safeguards are in place and working effectively.
Auditing processes are now frequent and numerous, eating up resources and increasing IT costs	Auditors recognize Tripwire Enterprise and its reputation as a proven automated control, and consequently spend less time questioning and inspecting. They know that with Tripwire Enterprise in place, there is proof whether or not change is properly managed.

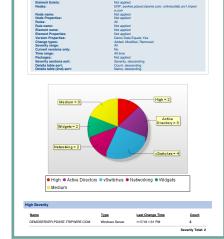
Compliance

Compliance can no longer be considered a once a year event, but rather an ongoing, continuous process. With Tripwire's FIM capabilities, the audit process is automated and streamlined, expedited through detailed change history and reporting. Because all change is tracked and an audit trail created, auditors can quickly be given proof of how changes are managed. When combined with Tripwire Enterprise's compliance policy management capabilities, each change is proactively tested to ensure it is within internal and/or external policy. Tripwire makes this powerful information actionable by alerting you when a change does not meet policy and can go as far as to create a new incident request within your existing change management system so it can be investigated further. Whether you are facing PCI, SOX, FISMA, NERC, Basel II, JSOX, GLBA or internal audits, Tripwire's market-leading solution can make the process easier, more accurate and cost effective.

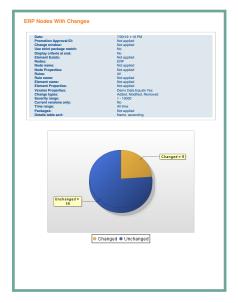


Tripwire's file integrity monitoring capabilities ensure that all changes are detected across the entire datacenter, no matter the source. From businesscritical applications to operating systems, databases, network devices, virtual environments and hypervisors, one point of control provides the visibility and control necessary to automate compliance, mitigate security risks and increase operational efficiency.





ERP Changes By Severity



The **Change Process Compliance report** identifies authorized and unauthorized changes to nodes over time, showing effectiveness of change process controls. The **Changes by Severity report** identifies configurations that have deviated from baseline by user-defined severity levels.

The **Nodes with Changes report** provides a quick overview of authorized vs. unauthorized changes.

IT Operations

80% of unplanned downtime is caused by unauthorized change and 80% of the time taken to restore services is spent discovering what changed in the first place. Therefore, system availability is dependent upon how well an organization manages change. Tripwire Enterprise tracks every change across the data center—and identifies who made each change. This enables organizations to enforce a zero-tolerance for unauthorized change, thereby quickly eliminating the number one source of downtime. If a system outage does occur, FIM can help the organization immediately pinpoint the problem and inform rapid remediation.

Summary

Change is necessary not only to keep up with day-to-day operational evolution, but also to enable IT to transform the organization. As the business continues to demand change, it's in its own best interest to get control of the changes that pose potential risk. Tripwire's file integrity monitoring empowers IT professionals with the capability to improve and enforce change and configuration management policies and procedures to ensure compliance with internal governance, external regulatory requirements, and industry best practices. By adopting Tripwire IT security and compliance automation solutions, organizations achieve a known and trusted state by automating compliance, mitigating security risk and improving operational efficiency. "Now, instead of spending as many as 28 man-days over a year providing manual proof of change control, we simply review our Tripwire Enterprise implementation and show evidence of compliance across the infrastructure with Tripwire reports. As a result, we now spend about an hour per audit answering questions about our change processes. That's a reduction of nearly 90%!"

-EdFinancial Services

INTERESTED IN LEARNING MORE ABOUT FIM?

For more on Tripwire's marketing-leading FIM technology, read <u>Meeting the True</u> <u>Intent of File Integrity Monitoring</u> and visit <u>tripwire.com</u>

About Fortra



Fortra is a cybersecurity company like no other. We're creating a simpler, stronger future for our customers. Our trusted experts and portfolio of integrated, scalable solutions bring balance and control to organizations around the world. We're the positive changemakers and your relentless ally to provide peace of mind through every step of your cybersecurity journey. Learn more at fortra.com.