



# Tripwire Enterprise

## COMPONENTS AND SPECIFICATIONS

### DATASHEET

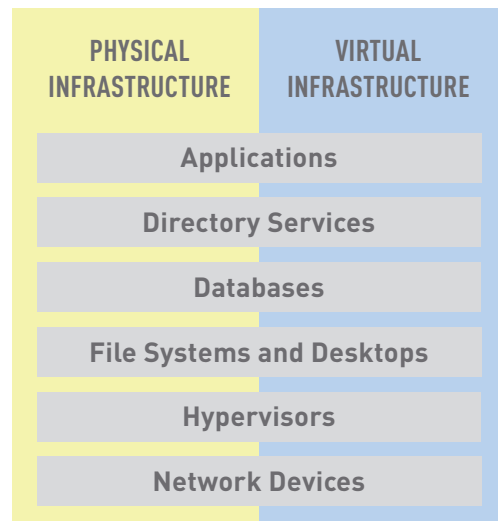
Today's dynamic business environment challenges IT with securing and operationally optimizing both physical and virtualized computing environments, and complying with regulations and industry standards. A data security breach or improperly executed system change can expose sensitive customer data or cause expensive service disruptions. To minimize risk and consistently deliver quality services, IT leaders must take a proactive approach to controlling and managing the system configurations in their IT infrastructure. High-performing organizations do this by relying on a powerful configuration control solution to achieve and maintain a known and trusted state.

### Configuration Assessment and Change Auditing with Tripwire

Tripwire® Enterprise is the leading configuration control solution, relied upon by thousands of organizations worldwide to proactively get their IT infrastructure into a known and trusted state, ensuring continuous operational, regulatory and security compliance. Regardless of your approach to configuration assessment and change management, Tripwire Enterprise delivers immediate value—and confidence.

Whether you just need to keep watch over mission-critical servers or the entire IT infrastructure—including virtualized environments—Tripwire Enterprise provides the capability to assess, validate and enforce policies and detect all change, no matter the source. Tripwire Enterprise assesses configuration settings and detects configuration change to server and desktop file systems, databases, middleware, directory services, applications, hypervisors, guest OSes, and a broad range of network devices.

Tripwire Enterprise ships with the policies organizations need to get the configurations of their physical and virtual IT infrastructure into a known and trusted state. Organizations assess current configurations against these policies to identify and remediate out-of-policy settings. Tripwire then performs continuous change monitoring that detects unauthorized and unplanned change so the organization can maintain compliance with internal policy and external standards.



Tripwire Enterprise Across the IT Infrastructure

## Tripwire Enterprise for File Systems and Desktops

This component assesses configurations of physical and virtual server and desktop file systems, including their security settings, configuration parameters, and permissions. Tripwire bases its policies on settings recommended by respected organizations such as CIS and NIST. When followed by Tripwire’s tunable change detection, IT has a single solution that ensures visibility and accountability for all configuration control activity on a wide range of platforms. And Tripwire’s agents are architected to achieve configuration control across the enterprise with minimal impact on network bandwidth.

### SPECIFICATIONS\*

#### Agent platform support

- Solaris (SPARC) 8, 9 & 10
- Solaris (x86) 10
- Windows 2000 Server
- Windows Server 2003 (incl. x64 Editions)
- Windows Server 2008 (incl. core and x64)
- Windows XP Professional
- Windows 2000 Professional
- HP-UX 11i v1, v2 & v3 (11i v2 & v3 on Itanium)
- AIX 5.2, 5.3 & 6.1
- Red Hat Enterprise Linux 3, 4 & 5 AS, ES & WS
- Red Hat Desktop Linux 3, 4 & 5
- SUSE Linux Enterprise Server 9 & 10
- Oracle Enterprise Linux 4 & 5
- CentOS 4.2
- Fedora Core 5 through 8

#### Virtual environment support

- VMware ESX 3.0, 3.5 & ESXi
- Solaris Zones

#### Agentless support for file systems

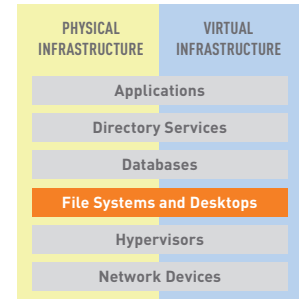
- POSIX-compliant operating systems (through Tripwire Enterprise/ND)

#### UNIX system properties monitored

- File adds, deletes, modifications
- Audit tracking
- File existence
- ACL (Access Control List)
- Installation package data
- User ID of owner, group ID of owner
- File and directory type, and file size
- Access, modification and change timestamp
- Growing attribute

#### Windows system properties monitored

- File adds, deletes, modifications
- Registry keys and values
- Event tracking
- Installation package data
- Flags: archive, hidden, offline, temporary, system, compressed
- Access, write and create time
- File and directory type, and file size
- Owner, Group, DACL, SACL, read-only
- Number and hashes of alternate data streams
- Growing attribute



Tripwire Enterprise for File Systems and Desktops in the IT Infrastructure

## Tripwire Enterprise for Network Devices

Tripwire Enterprise for Network Devices assesses configuration settings of the broadest range of network devices in the industry, including any device running a POSIX-compliant operating system. By testing configurations against industry-proven settings and then following up with continuous change auditing that identifies out-of-compliance changes, this component helps organizations achieve and maintain continuous compliance with security, regulatory, and operational measures. In addition, Tripwire generates an audit trail of all configuration control activities, so proving compliance in an audit is greatly simplified.

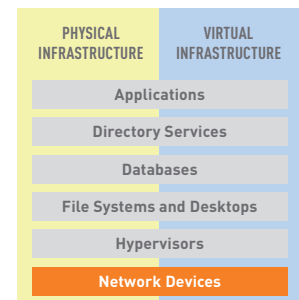
### SUPPORTED VENDORS & DEVICES\*

- Cisco IOS, CatOS & PIX OS
- Cisco VPN 3000 Series Concentrator
- Cisco Catalyst 1900/2820 Switch
- Alcatel OmniSwitch 6xxx/7xxx/8xxx
- Check Point Nokia IPSO Systems
- Extreme
- F5 BigIP
- Foundry

- HP ProCurve Series
- ISS Nokia IPSO Systems
- Juniper M/T Series
- Marconi ForeThought
- NetScreen
- Nokia IPSO OS
- Nortel Alteon & Passport
- Other devices using the included Universal Device Kit

#### Agentless support for file systems

- POSIX-compliant operating systems



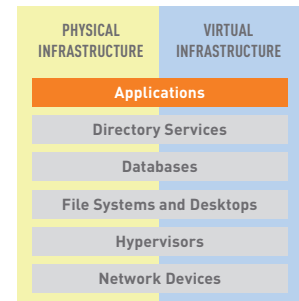
Tripwire Enterprise for Network Devices in the IT Infrastructure

## Tripwire Enterprise for Applications

**Mission-critical applications** are at the top of the IT infrastructure and enable the daily activities like email, web-based applications, and other critical applications that keep organizations moving forward. Tripwire Enterprise for Applications provides configuration assessment and change audit capabilities to help ensure that supported applications are configured properly for security, compliance, and optimal performance and availability. In addition to out-of-the-box policies for applications such as Microsoft Exchange and IIS server, Tripwire Enterprise lets IT easily create policies for other business applications, including custom applications.

### SUPPORTED APPLICATIONS\*

- Microsoft IIS
- Microsoft Exchange Server 2003
- Oracle Database 10g



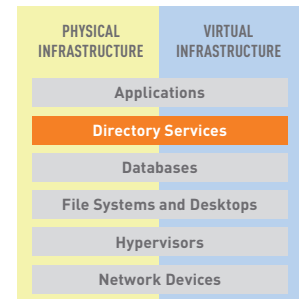
Tripwire Enterprise for Applications in the IT Infrastructure

## Tripwire Enterprise for Directory Services

**Tripwire Enterprise for Directory Services** provides independent configuration assessment for LDAP-compliant directory server objects and attributes, such as LDAP schema, password settings, user permissions, network resources, group updates, and security policies. Tripwire bases these assessments on CIS, NIST, DISA, SOX, and other industry standards and regulations to help ensure organizations can get their directory servers into a secure and compliant state. The component accelerates its deployment with pre-configured Active Directory, Sun Java System Directory Server and Novell eDirectory default settings that can be fully customized to specific enterprise environments.

### SUPPORTED DIRECTORY SERVERS\*

- Windows Active Directory
- Sun Java System Directory Server
- Novell eDirectory
- LDAP v2 & v3



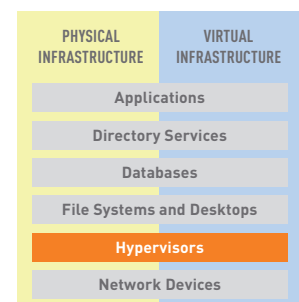
Tripwire Enterprise for Directory Services in the IT Infrastructure

## Tripwire Enterprise for VMware ESX

**Tripwire Enterprise for VMware ESX** provides visibility across the VMware virtual infrastructure, enabling continuous configuration control of virtual environments. This component provides out-of-the-box assessment tests for hypervisors, virtual containers, and vSwitches based on CIS security policies, DISA Security Technical Implementation Guide, and VMware's Infrastructure 3 Security Hardening guides. The included VirtualCenter integration auto-populates the same hierarchy of VirtualCenters, Clusters, Data Centers, Folders, Resource Pools and ESX hypervisors from VMware into Tripwire Enterprise, which enables auto-discovery, monitoring and reporting of changes among and within newly-created virtual infrastructure objects.

### SUPPORTED VMWARE ESX HYPERVISORS\*

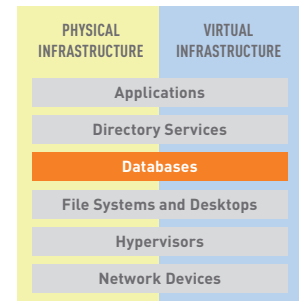
- VMware ESX 3.0, 3.5, ESXi



Tripwire Enterprise for VMware ESX in the IT Infrastructure

## Tripwire Enterprise for Databases

**Tripwire Enterprise for Databases** works in conjunction with Tripwire's file systems component to help organizations get their database server into a secure, high-performing state. Tripwire does this by assessing configurations of schema objects, application and configuration files, security and configuration parameters, access settings, and user roles and permissions against CIS and PCI guidelines for security. Once IT gets the database server into a known and trusted state, it keeps it there by ensuring all subsequent configuration changes are detected.



Tripwire Enterprise for Databases in the IT Infrastructure

### SPECIFICATIONS\*

<p><b>Tripwire Enterprise for Databases support</b></p> <ul style="list-style-type: none"> <li>• Oracle 9i &amp; 10g</li> <li>• Microsoft SQL Server 2000 &amp; 2005</li> </ul> <p><b>Oracle Schema Objects</b></p> <ul style="list-style-type: none"> <li>• Functions</li> <li>• Indexes</li> <li>• Procedures</li> <li>• Tables</li> <li>• Triggers</li> <li>• Views</li> <li>• Packages and package bodies</li> <li>• Sequences</li> <li>• Stored outlines</li> <li>• Synonyms</li> <li>• Types and type bodies</li> <li>• Libraries</li> <li>• Database Links</li> <li>• Clusters</li> </ul>	<p><b>Oracle Database Objects</b></p> <ul style="list-style-type: none"> <li>• Directories</li> <li>• Tablespace</li> </ul> <p><b>Oracle Security</b></p> <ul style="list-style-type: none"> <li>• System Privileges</li> <li>• Object Privileges</li> <li>• Audit Parameters</li> </ul> <p><b>Oracle Access Settings</b></p> <ul style="list-style-type: none"> <li>• Users</li> <li>• Profiles</li> <li>• Roles</li> </ul> <p><b>Oracle Database Software Files</b> <i>(using file system monitoring rules)</i></p>	<p><b>SQL Server Schema Objects</b></p> <ul style="list-style-type: none"> <li>• Tables</li> <li>• Indexes</li> <li>• Triggers</li> <li>• Views</li> <li>• Stored Procedures</li> <li>• Functions</li> <li>• User-defined types</li> </ul> <p><b>SQL Server Database Objects</b></p> <ul style="list-style-type: none"> <li>• Configuration Parameters</li> <li>• Databases</li> </ul> <p><b>SQL Server Security &amp; Access Settings</b></p> <ul style="list-style-type: none"> <li>• Logins</li> <li>• Server Roles</li> <li>• Database Users</li> <li>• Database Roles</li> </ul> <p><b>SQL Server Software Files</b> <i>(using system monitoring rules)</i></p>
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### ABOUT TRIPWIRE

Tripwire helps over 6,000 enterprises worldwide reduce security risk, attain compliance and increase operational efficiency throughout their virtual and physical environments. Using Tripwire's industry-leading configuration assessment and change auditing solutions, organizations successfully achieve and maintain IT configuration control. Tripwire is headquartered in Portland, Oregon, with offices worldwide.