

Tripwire and Eaton

Simplified NERC CIP Compliance and Security Hardening

Transmission and Distribution asset owners have to juggle disconnected or disparate tools to satisfy NERC CIP and internal cybersecurity requirements. Specifically for substation automation applications, monitoring the various intelligent electronic devices (IEDs) like relays, RTUs, and connected I/O can prove difficult and time consuming.

Tripwire and Eaton offer a unique combination of complementary capabilities that automate data collection, cybersecurity auditing and NERC CIP compliance reporting for complex environments. The integration makes it simple for utility companies to streamline their environments.

How Does Eaton IMS Address NERC CIP?

The Eaton IED Manager Suite (IMS), one of Eaton's grid automation system solutions, provides reliability, security and compliance for utility automation systems. Vendor agnostic, it helps utilities manage configuration settings, passwords and firmware of the IEDs used in substation and distribution automation systems. It also reduces maintenance costs through secure remote access and helps with NERC CIP compliance.

How Does Tripwire Address NERC CIP?

Tripwire provides industry-leading NERC CIP compliance through configuration management, task automation, reporting for proof of compliance, and more. Tripwire® Enterprise assesses configurations, detects and analyzes changes, and reports on when, what and who made changes to ensure the integrity systems. The Tripwire NERC

CIP Solution Suite is built on patented award-winning technology that dramatically reduces the time and effort for power and utility companies to pass audits. Refer to the table below to find Tripwire and Eaton's coverage of NERC CIP requirements.

How Tripwire and Eaton Work Together for You

As a Technology Alliance Partner, Eaton collaborates with Tripwire to efficiently secure substation environments with the Tripwire Enterprise and Eaton IMS integration.

Eaton IMS maintains a structured database of IED configuration settings and detects changes. The database can consist of thousands of valuable attributes, such as password changes, firmware versions, protection settings, Syslog destinations, IP addresses, model and serial numbers, and more. Tripwire Enterprise can automate data collection from that library, eliminating the manual process of entering information for each asset into GRC tools,

establishing additional communication paths to IEDs, and potential human data entry errors. With this data, Tripwire Enterprise displays consolidated reports against NERC CIP and custom policies in

a single user interface. This partnership allows you to cover an extended range of platforms and native utility protocols (e.g. DNP3, Modbus, IEC 61850, etc.) while receiving actionable data from one

central location to maintain compliance. You can also take advantage of other capabilities from both partners, such as Eaton's Password Manager and the Tripwire Enterprise integration with ServiceNow.

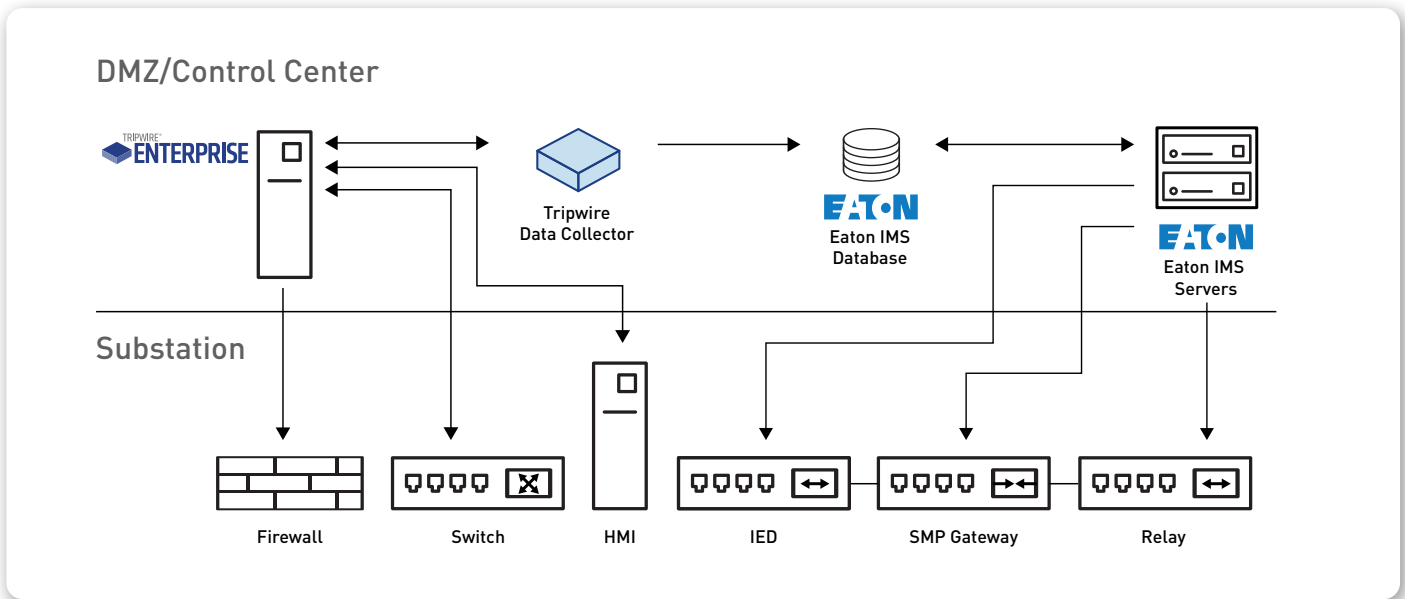


Fig. 1 Tripwire Enterprise and Eaton IMS integration

| | CIP-002 | CIP-003 | CIP-004 | CIP-005 | CIP-006 | CIP-007 | CIP-008 | CIP-009 | CIP-010 | CIP-011 | CIP-013 |
|---|--|---|-----------------------------------|--------------------------------------|--|-----------------------------|---|--|---|------------------------------------|-----------------------------|
| | BES CYBER SYSTEM IDENTIFICATION AND CATEGORIZATION | SECURITY MANAGEMENT CONTROLS | TRAINING AND PERSONNEL SECURITY | ELECTRONIC SECURITY PERIMETER | PHYSICAL SECURITY OF BES CYBER SYSTEMS | SYSTEMS SECURITY MANAGEMENT | INCIDENT REPORTING AND RESPONSE PLANNING | RECOVERY PLANS FOR BES CYBER SYSTEMS | CONFIGURATION CHANGE MANAGEMENT AND VULNERABILITY ASSESSMENTS | INFORMATION PROTECTION | |
| 1 | BES CYBER SYSTEM IDENTIFICATION | CYBER SECURITY POLICY FOR HIGH/MEDIUM SYSTEMS | AWARENESS | ELECTRONIC SECURITY PERIMETER | PHYSICAL SECURITY PLAN | PORTS AND SERVICES | CYBER SECURITY INCIDENT RESPONSE PLAN | RECOVERY PLAN SPECIFICATIONS | CONFIGURATION CHANGE MANAGEMENT | INFORMATION PROTECTION | RISK MANAGEMENT PLAN |
| 2 | REGULAR APPROVAL | CYBER SECURITY POLICY FOR LOW SYSTEMS | TRAINING | INTERACTIVE REMOTE ACCESS MANAGEMENT | VISITOR CONTROL PROGRAM | SECURITY PATCH MANAGEMENT | CYBER SECURITY INCIDENT RESPONSE PLAN IMPLEMENTATION AND TESTING | RECOVERY PLAN IMPLEMENTATION AND TESTING | CONFIGURATION MONITORING | BES CYBER ASSET REUSE AND DISPOSAL | PROOF OF IMPLEMENTATION |
| 3 | | IDENTIFICATION OF SENIOR MANAGER | PERSONNEL RISK ASSESSMENT PROGRAM | | MAINTENANCE AND TESTING PROGRAM | MALICIOUS CODE PREVENTION | CYBER SECURITY INCIDENT RESPONSE PLAN REVIEW, UPDATE, COMMUNICATION | RECOVERY PLAN REVIEW, UPDATE AND COMMUNICATION | VULNERABILITY ASSESSMENTS | | CIP SENIOR MANAGER APPROVAL |
| 4 | | DELEGATION OF AUTHORITY | ACCESS MANAGEMENT PROGRAM | | | SECURITY EVENT MONITORING | | | TRANSIENT CYBER ASSETS AND REMOVABLE MEDIA | | |
| 5 | | | ACCESS REVOCATION PROGRAM | | | SYSTEM ACCESS CONTROLS | | | | | |

Legend:
 TRIPWIRE alone
 TRIPWIRE and EATON

Table 1 Tripwire NERC Solution Suite and Eaton IMS coverage of NERC CIP requirements



Eaton is a power management company with 2018 sales of \$21.6 billion. We provide energy-efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. Eaton is dedicated to improving the quality of life and the environment through the use of power management technologies and services. Eaton has approximately 100,000 employees and sells products to customers in more than 175 countries. For more information, visit Eaton.com.



Tripwire is the trusted leader for establishing a strong cybersecurity foundation. Partnering with Fortune 500 enterprises, industrial organizations and government agencies, Tripwire protects the integrity of mission-critical systems spanning physical, virtual, cloud and DevOps environments. Tripwire's award-winning portfolio delivers top critical security controls, including asset discovery, secure configuration management, vulnerability management and log management. As the pioneers of file integrity monitoring (FIM), Tripwire's expertise is built on a 20+ year history of innovation helping organizations discover, minimize and monitor their attack surfaces. [Learn more at tripwire.com](http://tripwire.com)

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As a Belden company, Tripwire is uniquely positioned to bridge the cybersecurity gap between your IT and OT environments. Tripwire solutions integrate seamlessly with the industrial products you already have in play, like Tofino firewalls and Hirschmann switches.