

TOFINO XENON FOR ENERGY

TOFINO XENON FOR ENERGY DELIVERS AN ADVANCED INDUSTRIAL CYBER SECURITY SOLUTION TO SOLVE SOME OF THE MOST DEMANDING CHALLENGES



Easy to install and operate Tofino Xenon is a Layer 2 industrial security appliance designed to install with no downtime, no IP address, and no network change required



New IEC standard security enforcers such as DNP3, IEC104 and GOOSE assure energy, power and utilities have the protocol and network packet integrity needed to protect ICS/SCADA from cyber threats



Reduce risk at transmission substations and increase public safety with support for secure remote operations, legacy equipment and secure zones and conduits for communications, access and control



Increase NERC CIP audit efficiency and sustainability while reducing compliance cost, allowing ICS operations to focus on the core mission

Key Features

- Layer 2 operations – requires no IP address or network changes to infrastructure and is very secure
- Creates ISO/IEC 62443 secure zones and conduits
- Centralized management and configuration for network or manual (USB) methods
- Easy ICS operations control over security and configurations
- Deep Packet Inspection (DPI) available for Modbus, OPC, EtherNet/IP, DNP3, IEC 104 and GOOSE
- Plug and Protect™ installation with no downtime
- Self-learning automation for asset discovery and assisted rules generation with no network disruption
- Operates in passive mode (no network disruptions)
- Preventive intrusion protection against known and unknown threats (heuristic, not signatures-based)
- Lots of new easy-to-use features to improve efficiency and scale of deployment in large networks along with advanced configuration and change management solutions



The Tofino™ Xenon Industrial Security Appliance is a Layer 2 purpose-built device designed to protect ICS/SCADA against cyber threats. Now with several new energy-focused DNP3, IEC 104 and GOOSE Enforcer Loadable Security Modules (LSMs).

Be certain.
Belden.

TOFINO XENON FOR ENERGY

PROTECTING ELECTRIC UTILITY TRANSMISSION SUBSTATIONS

Benefits

Secure Complex Industrial Networks

Cyber threat protection for ICS/SCADA - New features for Tofino Xenon (updated software and firmware version 3.2) deliver multiple capabilities essential to secure industrial environments and assure public safety and operations reliability.

Secure Zones and Conduits (ISO/IEC-62443) are easily created using Tofino, relieving ICS engineering from having to create physical changes within the network, and allowing specified conduits between the secure zones.

Deep Packet Inspection (DPI) is the detailed inspection and evaluation of every packet in each protocol supported, allowing ICS operations to set and enforce security policy within industrial network infrastructure.

Securing access, permissions, logging, and alerts are all available with Tofino to determine who may access, what rights and permissions they have (read only, access only specific systems within the zone, read and write, etc) and will log and alert on any unauthorized or suspicious activity.

New Tofino Configurator 3.2 Reduces Costs

Tofino Xenons running the newest Tofino Configurator 3.2 software and firmware update will reduce cost and save time through centralized management and configuration.

- Tofino configurations can be created, modified, and pushed over the network remotely to Tofino Xenon appliances from a central configuration system.
- Diagnostics can be retrieved from remotely operating systems
- Automated asset discovery, assisted firewall rules-generation, and other features reduce errors, bring consistency across the network, and makes Tofino easy to manage for busy ICS control engineers and operations.

Applications

Tofino Xenon is designed for the harshest and most hazardous industrial conditions, and uniquely has the most difficult and critical certifications such as ATEX, ISA-12.12.01 Class 1 Div.2, EN 50121-4 and others.

Meets principal certifications, standards, and approvals

- Energy, power and utilities sectors: ISO/IEC-62443, IEC-60870-5-104, NERC CIPv5 and CIPv6
- Oil and Gas/Hazardous areas: ATEX ISA-12.12.01 Class 1 Div.2
- Transportation sector: EN 50121-4
- Shipping: Germanischer Lloyd (configuration-dependent)
- Adaptable to meet the needs of systems integrators, engineers, OEM machine builders, IT

Markets

Tofino for Energy is ideal for power and electric utilities, hydroelectric, water and waste water processing, oil and gas, process automation and transportation industries who use DNP3, IEC 104 and GOOSE as well as Modbus, OPC, and EtherNet/IP.

Legacy and out-of-support systems often need additional protection.

This is the case for many systems based on Windows, Linux, and Unix. Operating systems such as XP, XP Embedded, older versions of Windows OS, Windows Server 2003 are all known to be both vulnerable and without any further patching or easy upgrades.

