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Tofino Firewall LSM

Traffic Control Cop for industrial networks

- Create, test and deploy network traffic rules
- Block and report unauthorized communications



The vast majority of control networks have little or no isolation between different subsystems. If a device misconfiguration, hardware failure or virus causes a problem in one part of the network it can spread throughout the entire network in seconds and bring your whole plant down. Even [redundant backup systems can fail simultaneously](#) if their network connections are not protected!

The Tofino Firewall LSM is like a traffic control cop for industrial networks, checking all communications on your control network against a list of traffic 'rules' that are defined by your control engineers. Any communication that is not on the 'allowed' list will be blocked and reported by the Tofino Firewall LSM.

Traffic rules are created using terms and concepts that are already familiar to control specialists. And Tofino's unique 'test' mode helps test traffic rules without any risk of accidentally blocking communications that are critical to plant operation.

Tofino provides pre-defined templates for over 25 families of popular industrial controllers, including rule definitions to protect devices with known vulnerabilities. These definitions are updated regularly to provide ongoing protection of your critical controllers.

The Tofino Event Logger LSM is included with the Firewall LSM. The Event Logger reliably monitors and logs security events and alarms that occur on industrial networks, which is critical for identifying network threats, better securing plants, and complying with standards. This event logging system was created specifically for the industrial world. It reliably records and protects security events and alarms information in **SCADA** and **process control environments**, and is designed to be effective even when communication links are sporadic. It can record external alarm and event logging to both a remote syslog server and the long-term memory in the Tofino SA.

Summary

Saves You Money Through:

- Reduced down time and production losses
- Simplifying compliance to safety and security standards
- Improved system reliability and stability

Features

- Traffic rules are defined by your control team, specifying which devices may communicate using what protocols
- Traffic that does not match the rules is automatically blocked and reported
- Simple configuration using the Tofino Configurator's graphical user interface
- Over 125 pre-defined IT and industrial communication protocols
- Over 180 pre-defined security templates for common controllers, drives, HMIs, and network products
- Pre-defined 'special rules' for advanced traffic filtering and vulnerability protection

Applications

- Isolate critical controllers from threat sources
- Separate control network into security 'zones', restricting communications between zones
- Protect controllers that exhibit known vulnerabilities

Specifications

Protects Multiple Devices	Hundreds of different device types are supported with unique rate control, direction, and permission settings for each allowed connection
Filter Policy	Deny by default: all network traffic that is not on the 'allowed' list is automatically blocked and reported
State Tracking	Stateful Packet Inspection (SPI)
User-Settable Options	<p>IP-based protocols:</p> <ul style="list-style-type: none"> • <i>Source device</i>: specific IP address, network, or 'any' • <i>Destination device</i>: specific IP address, network, broadcast, multicast, or 'any' • <i>Application protocol</i>: any combination of single, list, and/or range of port numbers • <i>Direction</i>: incoming, outgoing, bidirectional <p>Both IP-based and non-IP protocols:</p> <ul style="list-style-type: none"> • <i>Permission</i>: Allow, Deny, Enforce (requires appropriate Enforcer LSM) • <i>Logging</i>: Enabled, Disabled • <i>Rate limit controls</i>
Transport Protocols	TCP, UDP, and non-IP protocols supported
Configuration Method	Configure, manage, and audit all Tofino Security Appliances from one workstation using the Tofino Configurator software
Operating Modes	<p>All standard Tofino modes supported:</p> <ul style="list-style-type: none"> • <i>Test</i>: all traffic allowed; alerts generated as per user rules • <i>Operational</i>: traffic filtered and alerts generated as per user rules
Security Alerts	Reports blocked traffic to a syslog server and to non-volatile memory on a Tofino Security Appliance
Certifications	<ul style="list-style-type: none"> • MUSIC-2009-1 security certified (Foundation level) • Certified Modbus compliant by Modbus-IDA
Standards Compliance	ISA/IEC 62443 compliance
System Requirements	<ul style="list-style-type: none"> • Tofino Security Appliance • Tofino Configurator software
Ordering Information	Tofino™ Firewall LSM: Part number 942 016-110

Additional Information:



[Tofino Firewall LSM Data Sheet](#)

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