



# Tofino™ Firewall LSM

Directs and controls industrial network traffic



### Take control of your network traffic

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' defined by your control engineers. Any communication that is not on the 'allowed' list will be blocked and reported by the Tofino Firewall.

Traffic rules are created using terms and concepts that are already familiar to control specialists. And, the unique 'test' mode of Tofino lets you test your rules without any risk to plant operation.

### Saves you money through:

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

### Unique capabilities:

- Traffic rules are defined by your control team, specifying which devices may communicate using what protocols
- Rule definition is simple using a graphical drag-and-drop editor
- Traffic that does not match the rules is automatically blocked and reported

- Over 50 pre-defined IT and industrial communication protocols
- Over 25 pre-defined controller templates
- Pre-defined 'special rules' for advanced traffic filtering and vulnerability protection

### Applications

- Isolate critical devices from threat sources
- Separate control networks into security 'zones', restricting communications between zones
- Protect controllers with known vulnerabilities

# TOFINO®

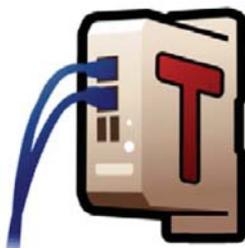
## Features and Specifications

<b>Protects multiple devices</b>	Master and slave devices are supported, with unique direction and permission settings for each client/server connection
<b>Filter policy</b>	Deny by default: any network traffic that is not on the 'allowed' list is automatically blocked and reported
<b>State tracking</b>	Stateful Packet Inspection (SPI)
<b>User-settable options</b>	IP-based protocols: <ul style="list-style-type: none"> <li>• <i>Source device</i>: specific IP address, network, or 'any'</li> <li>• <i>Destination device</i>: specific IP address, network, broadcast, multicast, or 'any'</li> <li>• <i>Application protocol</i>: any combination of single, list, and/or range of port numbers</li> <li>• <i>Direction</i>: incoming, outgoing, bidirectional</li> <li>• Both IP-based and non-IP protocols</li> <li>• <i>Permission</i>: allow, deny, allow/log, deny/no log</li> </ul>
<b>Transport protocols</b>	TCP, UDP and non-IP protocols supported
<b>Configuration method</b>	Simple configuration using the Tofino Central Management Platform (CMP)
<b>Operating modes</b>	All standard Tofino modes supported: <ul style="list-style-type: none"> <li>• <i>Passive</i>: all traffic allowed, no alerting</li> <li>• <i>Test</i>: all traffic allowed; alerts generated as per user rules</li> <li>• <i>Operational</i>: traffic filtered and alerts generated as per user rules</li> </ul>
<b>Security alerts</b>	Reports blocked traffic to the Tofino CMP via Tofino Exception Heartbeats
<b>Certifications</b>	<ul style="list-style-type: none"> <li>• MUSIC 2009-1 security certified (Foundation level)</li> <li>• Certified Modbus compliant by Modbus-IDA</li> </ul>
<b>System requirements</b>	<ul style="list-style-type: none"> <li>• Tofino Security Appliance</li> <li>• Tofino Central Management Platform</li> </ul>
<b>Ordering information</b>	Part number: <b>9520-FW</b> Name: <b>Tofino™ Firewall LSM</b> Visit: <a href="http://www.mtl-inst.com/tofino">www.mtl-inst.com/tofino</a> for ordering info for all products.

The Tofino™ Firewall LSM is a component of the Tofino™ Industrial Security Solution

### Tofino Security Appliance

Hardware platform that creates Plug-n-Protect™ zones of security on control and SCADA networks



### Loadable Security Modules

Firmware modules that customize the security features of each Tofino SA:

- **Firewall**: Directs and controls industrial network traffic
- **Modbus TCP Enforcer**: Content Inspection and connection management for Modbus and OPC
- **Secure Asset Management**: Tracks and identifies network devices
- **VPN**: Secures remote communication
- **Event Logger**: Reliably logs security events and alarms

### Tofino CMP

Software that provides coordinated security management of all Tofino Security Appliances from one workstation or server



The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.



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