



technical datasheet

Tofino™ OPC Enforcer LSM

Tracks and secures OPC connections



Advanced cyber security for OPC/DCOM Communications.

OLE for Process Control (OPC) is widely used in SCADA and control systems as an interoperability solution, interfacing control applications from multiple vendors. But the DCOM technologies underlying OPC were designed before network security issues were widely understood. As a result, OPC is almost impossible to secure using a conventional firewall.

The Tofino OPC Enforcer Loadable Security Module (LSM) inspects, tracks and secures every connection that is created by an OPC application. It dynamically opens only the TCP ports that are required for each connection, and only between the specific OPC client and server that created the connection. It's simple to use – no configuration changes are required on the OPC clients and servers – and offers superior security over what can be achieved with conventional firewall or tunneler solutions.

Your OPC clients and servers are vital to the operation of your plant. Protect them now with the Tofino Security Appliance and Tofino OPC Enforcer LSM.

Saves you money through:

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

Unique capabilities:

- First-ever application of connection tracking technology to industrial protocols
- Automatically tracks TCP ports assigned by OPC servers for data connections and dynamically opens those ports in firewall
- 'Sanity Check' blocks any OPC requests not conforming to the DCE/RPC standard

- Programmable data connection delay period to shut down unused connections
- Supports multiple OPC clients and servers
- Simple configuration and monitoring using the Tofino CMP

Applications

- Manage all traffic on systems that use OPC DA, HDA, A&E, DX or XML-DA
- Secure data transfers to and from data historians and supervisory applications
- Protect safety instrumentation systems
- Combine with Tofino VPN LSM for secure remote OPC connections

TOFINO®

MM-DS-OPC-LSM Rev1-M 280310

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Features and Specifications

Supports all variations of DCOM-based OPC	Data Access (DA), Historical Data Access (HDA), Alarms and Events (A&E), Data eXchange (DX), and XML Data Access (XML-DA)
Supports multiple connections	Multiple OPC clients and servers can be protected by a single Tofino Security Appliance running the OPC Enforcer LSM
Default filter policy	Deny by default including: <ul style="list-style-type: none"> • Any attempted OPC traffic that is not between defined OPC client and server pairs will be blocked and reported • Any attempted TCP connection that was not successfully negotiated between a valid OCP client and server will be blocked and reported
User-settable options	The following options may be set: <ul style="list-style-type: none"> • Sanity check enable/disable • Maximum time to wait for data connection to start
Configuration method	Simple configuration using the Tofino Central Management Platform (CMP)
Operating modes	<ul style="list-style-type: none"> • All standard Tofino modes supported: • Passive: all traffic allowed, no alerting • Test: all traffic allowed; alerts generated as per user rules • Operational: traffic filtered and alerts generated as per user rules
Security alerts	Reports security alerts to the Tofino CMP via Tofino Exception Heartbeats and via syslog (provided Event Logger LSM is installed)
Certifications	Tested for OPC protocol compliance using OPC Foundation test suite
System requirements	<ul style="list-style-type: none"> • Tofino Security Appliance • Tofino Firewall LSM • Tofino Central Management Platform (CMP)
Ordering information	Part number: 9520-OPC Name: Tofino OPC Enforcer LSM Visit: www.mtl-inst.com/tofino for ordering information on all products

The Tofino™ OPC Enforcer 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

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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