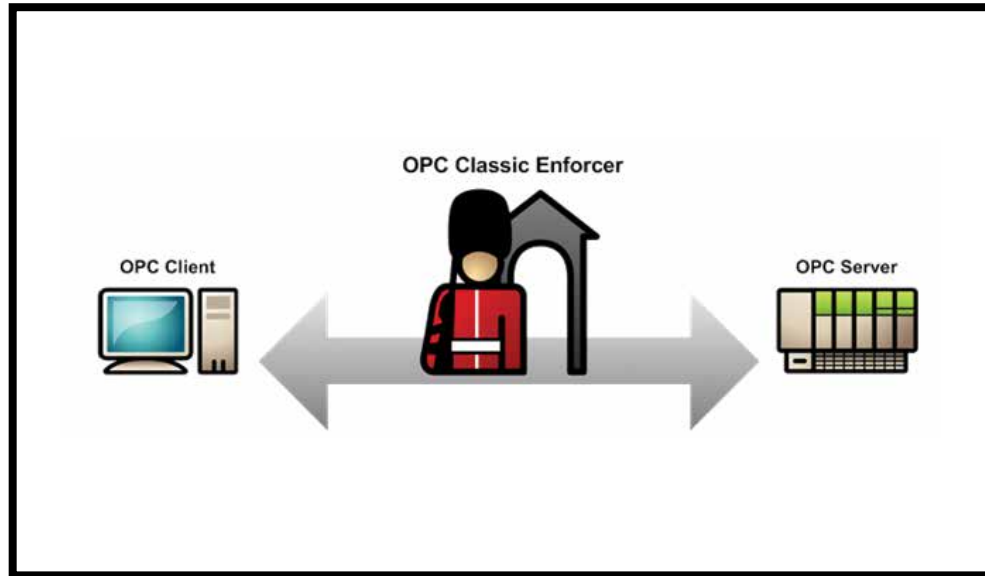


PB 1088TAG

Tofino™ OPC Classic Enforcer Loadable Security Module (LSM)

A plug-in Deep Packet Inspection (DPI) module that provides real-time validity checking and connection management for OPC DA, HDA, and A&E traffic.



The Tofino OPC Classic Enforcer LSM inspects, tracks, and secures every connection that is created by an OPC application.



Advanced Cyber Security for OPC Classic Communications

OPC Classic, based on Microsoft COM/DCOM technology, is widely used in control systems as an interoperability solution, interfacing control applications from multiple vendors. But the DCOM technologies underlying OPC Classic were designed before network security issues were widely understood. As a result, OPC Classic is almost impossible to secure using a conventional firewall.

The Tofino OPC Classic Enforcer 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 Classic 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
- Secures OPC DA, HDA, or A&E
- Automatically tracks TCP ports assigned by OPC servers for data connections and dynamically opens those ports in firewall
- Protocol '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 using the Tofino Configurator's graphical user interface

Applications

- Manage all network traffic on systems that use OPC DA, HAD, or A&E
- Secure data transfers to and from data historians and supervisory applications
- Protect safety instrumentation systems

Be certain.

Tofino OPC Classic Enforcer LSM

Features and Specifications

Type	Description
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 Classic 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 OPC 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 on all OPC connection attempts Packet fragmentation controls Maximum time to wait for data connection to start
Configuration method	Simple configuration using the Tofino Configurator
Operating modes	All standard Tofino modes supported: <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 security alerts to a syslog server and to non-volatile memory on a Tofino Security Appliance
Certifications	Tested for OPC protocol compliance using OPC Foundation test suite
System requirements	<ul style="list-style-type: none"> Tofino Security Appliance Tofino Firewall/Event Logger LSM Tofino Configurator
Ordering information	Part number: 942 016-117 Name: Tofino™ OPC Enforcer LSM For additional information, visit www.belden.com/resourcecenter

Tofino™ OPC Enforcer LSM is a component of the Tofino 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:** Monitors and secures industrial network traffic
- Modbus, OPC, and EtherNet/IP Enforcers:** Ensure compliance, manage connections, and restrict ICS/SCADA commands
- NetConnect:** Provides secure remote configuration over any IP-based network
- Event Logger:** Reliably logs security events and alarms

Tofino Configurator

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

