

Tofino™ Pre-defined Protocols, Controllers and Applications

Application Note #113

AN-113
Version 1.7

The Tofino Security Appliance can support virtually any controller, network device or communication protocol that uses Ethernet. The following is a partial listing of the controllers, servers, application programs, and communication protocols that have pre-defined profiles in the Tofino CMP software version 1.7.0 and later. If you do not see your application or control system listed, please contact us.

Company	Device Profiles	Servers & Applications	Protocols
ABB	<ul style="list-style-type: none"> AC400 AC800M 	<ul style="list-style-type: none"> Engineering Workstation Operator Workplace Controller Network Interface Server Network Interface Aspect Server Domain Controller Multisystem Integration Server 	<ul style="list-style-type: none"> ABB Time-sync Multicast MI - Multisystem Integration Protocol RNRP - Redundant Network Routing Protocol RemSys - Show Remote System Protocol
Allen-Bradley	<ul style="list-style-type: none"> CompactLogix ControlLogix PLC-5 SLC-5 		<ul style="list-style-type: none"> Ethernet/IP (CIP) Rockwell CSP (TCP and UDP) <p>Note: Includes special rules for vulnerability protection</p>
Byres Security		<ul style="list-style-type: none"> Tofino CMP 	<ul style="list-style-type: none"> Tofino CMP
COPA	<ul style="list-style-type: none"> Straton PLC 	<ul style="list-style-type: none"> Zenon Zenon Analyzer 	<ul style="list-style-type: none"> Zennetsrv Zensyssrv WebServer Zendbsrv ZenAdminsrv ZenLocsrv Zenvnc Driver Simulation ZrsConnector ZrsLicSrv Straton Event Port Stratonrt StratonWKB
Cisco	<ul style="list-style-type: none"> 1600, 1800, 2600, 2800, 3800 routers ASA & PIX firewalls Catalyst 29xx, 3750, 4500, 6500 switches 		<ul style="list-style-type: none"> CDP/VTP/DTP/PAGP/UDLD (Cisco Discovery Protocols) Configuration Test (Loop) Protocol Inter-System Link

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Digi International			<ul style="list-style-type: none"> • Digi Realport (Standard and SSL/TLS) • Digi Ethernet-to-Serial
Emerson	<ul style="list-style-type: none"> • DeltaV • Provox 		<ul style="list-style-type: none"> • DeltaV
GE	<ul style="list-style-type: none"> • 90-30 • 90-70 • VersaMax • VersaMax Micro • PAC8000 SafetyNet 		<ul style="list-style-type: none"> • GE QuickPanel Configuration Protocol • GE SRTP • MOST/PAC8000 API
Generic - Industrial		<ul style="list-style-type: none"> • Wonderware HMI 	<ul style="list-style-type: none"> • DNP3 • FF Fieldbus Message Specification • FF System Management • GOOSE - IEC61850 Interface • IEC MMS • IEC 60870-5-104 • IEEE 1588 Precision Time Protocol • ISO Network Layer Protocol • MRP - Media Redundancy Protocol (IEC 62439)OPC Classic - TCP

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Generic - IT			<ul style="list-style-type: none"> • DHCP (Client and Server) • DNS • FTP • HTTP (Web) • HTTPS • ICMP ('Ping') • IGMP • Intel NIC Teaming Protocol • IPv6 • Kerberos Authentication • LDAP • LLDP - Link Layer Discovery Protocol • LLMNR - UDP • NETBIOS Datagram • NETBIOS Name Resolution • NETBIOS Session Service • Network Time Protocol • Novell Netware Protocol • Remote Replication Agent • Reverse ARP • SMB • SNMP • SNMP Trap • Spanning Tree Protocol • SSH Secure Shell Protocol • Symantec AV • Telnet • TFTP • UPnP (TCP and UDP) • VRRP – Virtual Router Redundancy Protocol • WS-Discovery - UDP • WSUS
Hirschmann	<ul style="list-style-type: none"> • OpenRail Modular • RSR • MICE • BAT Wireless LAN • OCTOPUS • RS40 • MACH 100 • MACH 1000 • MACH 3000 • MACH 4000 • LION • Rail Video 		<ul style="list-style-type: none"> • Protocol Hirschmann HIPER Ring Protocol • Hirschmann Redundant Ring Coupling

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HIMA	<ul style="list-style-type: none"> HiMatrix PES HiMatrix RIO HiMax and HiMatrix PES SILworX HiQuad 	<ul style="list-style-type: none"> ELOP II ELOP II Factory X-OPC OPC DA OPC AE SILworX 	<ul style="list-style-type: none"> HIMA HiMAX-HiMatrix-(X)OPC HIMA HiMatrix RIO HIMA HiQuad-OPC-DA (and Token) HIMA ELOP II HIMA X-OPC Computer
Honeywell	<ul style="list-style-type: none"> C200 C300 		<ul style="list-style-type: none"> Honeywell CDA Honeywell FTE Honeywell Safety Manager PLANTSCAPE
Mitsubishi			<ul style="list-style-type: none"> Mitsubishi MELSCQNA
Omron			<ul style="list-style-type: none"> FINS (UDP)
OSISoft		<ul style="list-style-type: none"> PI Data Historian 	<ul style="list-style-type: none"> PI Data Historian
Schneider	<ul style="list-style-type: none"> Momentum Premium Quantum Twido Nano 		<ul style="list-style-type: none"> Modbus/TCP Modbus/UDP
Siemens	<ul style="list-style-type: none"> SIMATIC S7-200 SIMATIC S7-1200 SIMATIC S7-300 SIMATIC S7-400 SIMATIC S7-400FH SIMATIC S7-C 	WinCC STEP7	<ul style="list-style-type: none"> PROFINet Context Manager PROFINet Multicast PROFINet Unicast S7Com
Wago	<ul style="list-style-type: none"> 750-842 PLC 		<ul style="list-style-type: none"> Wago CoDeSys
Yokogawa	<ul style="list-style-type: none"> Centum Stardom 		<ul style="list-style-type: none"> Yokogawa Stardom Vnet/IP

The Tofino Industrial Security Solution includes the following components :

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 and OPC Enforcers:** 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



BYRES SECURITY INC.

TELEPHONE: 1 250 390 1333
TOLL FREE: 1 877 297 3799 (N. America)
EMAIL: sales@tofinosecurity.com

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