

# MetaDefender Industrial Firewall & IPS™

## Device Level Intrusion Protection

Many industrial OT environments are built around a flat network design with very little practical segmentation. Simple user names and passwords are in widespread use and shared across operations teams and across multiple points of physical connectivity.

As a result, many OT networks lack internal security controls, putting OT assets at risk from unauthorized/ hostile use and unintended misuse. MetaDefender Industrial Firewall & IPS establishes a crucial line of defense for OT hardware assets to protected OT networks, and without disrupting the work procedures of business stakeholders.

MetaDefender Industrial Firewall & IPS is an industrial security appliance and intelligent Intrusion Prevention System (IPS) that sits in front of industrial endpoints to protect mission-critical PLC, VFD, DCS, and other network connected devices. Operating as a transparent OSI Layer-2 bridge, MetaDefender Industrial Firewall & IPS automatically learns and enforces the normal operations of your plant environment and eliminates threats in real time.

It protects industrial assets from unauthorized config changes, device resets, device reads, logic updates, and message values. OPSWAT offers an MetaDefender Industrial Firewall & IPS Standard and MetaDefender Industrial Firewall & IPS Lite versions. The MetaDefender Industrial Firewall Standard appliance support up to 15 industrial device and the Lite version supports 3.



## Easy and Automated Protection

MetaDefender Industrial Firewall & IPS installs easily at the cabinet level and self-learns your OT network subnets. No IP address is needed (except for management) and no reconfiguration of your existing network segmentation and subnet address scheme.

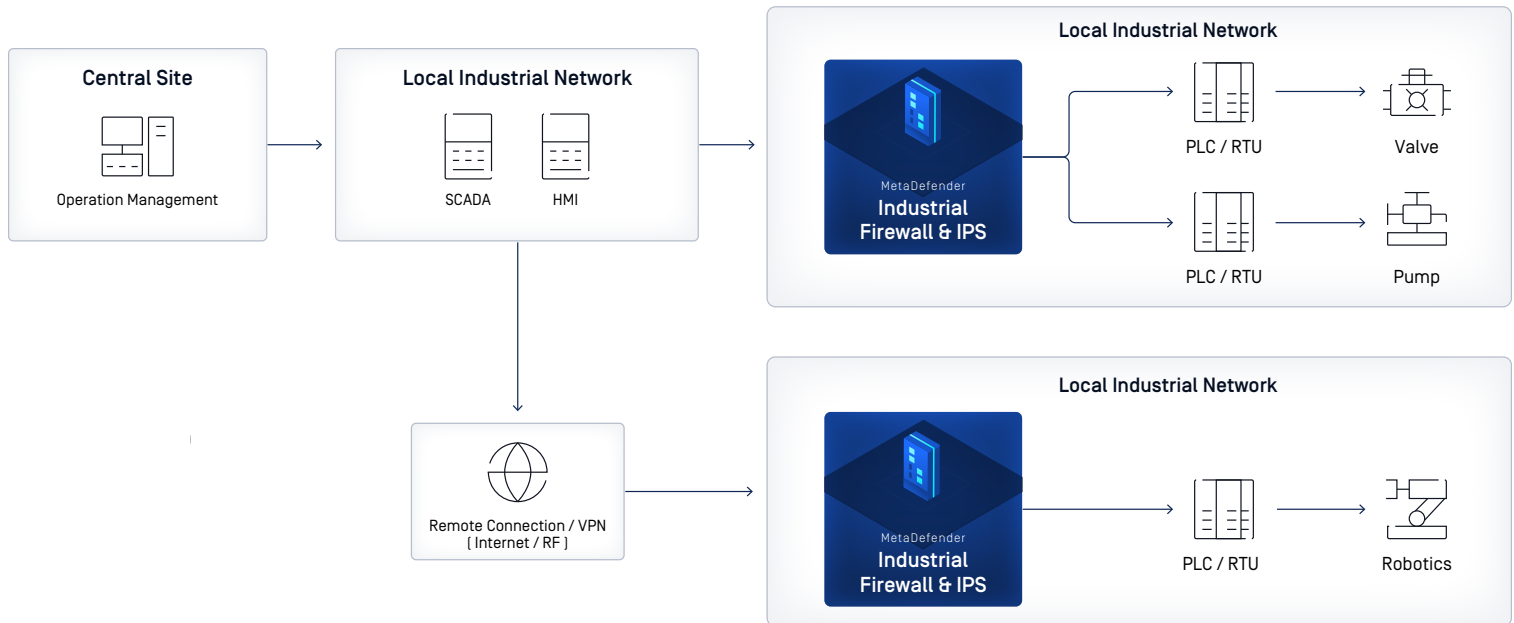
In real time, the appliance controls who is permitted to communicate using what protocol and command types and when.

As such, MetaDefender Industrial Firewall & IPS supports the implementation of IEC62443-3 standard for segmentation and controlling the traffic flows between different zones in the industrial environment.

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## Protecting iFIX and Cimplicity Networks

MetaDefender Industrial Firewall & IPS GE is an industrial network security appliance specifically engineered to understand and self-learn iFIX protocol communication patterns and prevent unauthorized communications from reaching GE iFIX assets. The appliance governs access to iFIX 6.x HMI and SCADA systems and maximizes protection for all the iClients in use across your deployment, making sure that unauthorized nodes cannot interact with the rest of the site.

MetaDefender Industrial Firewall & IPS GE does the same for industrial networks whose HMI and SCADA systems use the GE Cimplicity communication protocol.

## MetaDefender Industrial Firewall & IPS GE Cybersecurity Features

OPSWAT provides five essential security controls to protect iFIX and Cimplicity HMI, SCADA, clients and view nodes as they interact with each other and the broader OT/IT network.



MetaDefender Industrial Firewall & IPS GE

Network Risks	Real-time Security Protection	Control
<b>Unknown nodes or clients</b>	Alert and block attempt to add any node that interacts with or modifies iFIX system behavior	Rogue Node Detection
<b>Unauthorized scanning or communication</b>	Prevent network activity from detecting protected nodes	Reconnaissance Detection/Prevention
<b>Unintentional reconfiguration or update</b>	Permit only read-type function codes on native iFIX or Cimplicity protocols except during admin-defined timeframe	Scheduled Maintenance Enforcement
<b>Very high message rates (DoS)</b>	Block IPs that exceed normal message rates	DoS/DDoS Protection
<b>Fake devices</b>	Direct enforcement of known IP and MAC addresses for trusted iFIX or Cimplicity SCADA nodes and clients	IP Spoofing Protection

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## Application and Protocol Support

<b>Supported Protocols</b>	TCP, UDP, MODBUS, ETHERNETIP, S7COMM, SLMP, FINS, VNETIP, BACNET, DNP3, EGD
<b>GE SCADA / HMI Software</b>	CIMPLICITY, iFIX
<b>GE Proprietary Protocols</b>	DICOM, GE-ADL, GE-SDI, GE-SRTP, IEC60870, MMS

## Specifications

	MetaDefender Industrial Firewall & IPS Standard, MetaDefender Industrial Firewall & IPS GE	MetaDefender Industrial Firewall & IPS Lite
<b>Hardware Manufacturer</b>	Lanner	CompuLab
<b>Number of OT devices supported</b>	Up to 15	Up to 3
<b>CPU</b>	ATOM (E3845)	Celeron J3455
<b>RAM</b>	8GB	4GB
<b>Storage</b>	128GB	64GB SATA SSD
<b>Usb Interfaces</b>	2 (1x2.0; 1/3.0)	4 (2x2.0 + 2x3.0)
<b>Power Inputs</b>	2 voltage inputs (redundant power)	1 twist lock input
<b>Input Power Range</b>	12-36 VDC power input	9-24V DC
<b>Serial (Console)</b>	✔	1 (optional, requires special cable)
<b>Ethernet Ports</b>	2/4 3 Gigabit	2 GbE
<b>Bypass Pair {Qty}</b>	✔	✘
<b>Operating Temp Range</b>	Standard: -40°C to +75°C	-20°C to +40°C
<b>Digital</b>	✘	✘
<b>Dimensions</b>	146H/127D/78W (MM)	112H/84D/34W (mm)
<b>Weight</b>	1.45 kg	350 grams
<b>Tandard Certificates and Declarations</b>	CE/FCC Class A/RoHS/ UL / C1 div II	UL lister for USA and Canada
<b>Vibration 60068-2-6, test Fc</b>	✔	IEC TR 60721-4-7
<b>EMC Interference Certification</b>	EN55032:2015+AC:2016 Class A: EN55024:2010	✘

OPSWAT.

Protecting the World's Critical Infrastructure