



Industrial Cybersecurity Solution Brief

The OT Security Challenge

Modern-day industrial and critical infrastructure organizations rely heavily on operational technology (OT) environments to produce goods and services. Beyond traditional IT operations that utilize servers, routers, PCs and switches, these organizations also rely on OT, such as programmable logic controllers (PLCs), distributed control systems (DCSs) and human machine interfaces (HMIs) to run physical plants and factories. While OT devices have been in commercial use since the late 1960s, major changes are underway to modernize OT operations.

The Convergence Initiative

Today, an increasing number of organizations are considering—and adopting—convergence in their IT and OT environments. Others have no intention to converge IT and OT, however, even under the most favorable circumstances, this isolation is nearly impossible to maintain. The introduction of one seemingly harmless variable into a sterile environment can permanently destroy the most stringently enforced air-gap. This is known as “accidental convergence”.

Industry 4.0

Many organizations are rapidly adopting Industry 4.0 technology. In industrial and critical infrastructure environments, this can translate into thousands of devices connected via the Industrial Internet of Things (IIoT).

Both of these initiatives can result in substantial efficiencies and cost savings, but they are not without risk. Without proper OT security, you can introduce new attack surfaces and vectors and can put your OT infrastructure and operations at risk.

Comprehensive OT Cybersecurity

Tenable.ot protects industrial and critical infrastructure from cyber threats, malicious insiders and human error. From threat detection and mitigation to asset tracking, vulnerability management, configuration control and adaptive assessment checks, Tenable’s industrial control systems (ICS) security capabilities maximize your operational environments visibility, security, and control.



Visibility

Gain full visibility and deep situational awareness across your converged IT/OT environment.



Security

Protect your industrial network from advanced cyber threats and risks posed by hackers and malicious insiders.



Control

Take full control of your operations network by tracking ALL changes to any ICS device.

Tenable.ot offers comprehensive security tools and reports for IT security personnel and OT engineers. It provides unmatched visibility into converged IT/OT operations, and delivers deep situational awareness across all sites and their respective OT assets—from Windows servers to PLC backplanes—in a single pane of glass.

ABOUT TENABLE

Tenable®, Inc. is the Cyber Exposure company. Over 27,000 organizations around the globe rely on Tenable to understand and reduce cyber risk. As the creator of Nessus®, Tenable extended its expertise in vulnerabilities to deliver the world's first platform to see and secure any digital asset on any computing platform. Tenable customers include more than 50 percent of the Fortune 500, more than 25 percent of the Global 2000 and large government agencies. Learn more at www.tenable.com.

- **Configuration Control**

With Tenable.ot, you can track malware and user-executed changes made over your network or directly on a device. Tenable.ot provides a full history of device configuration changes over time, including granularity of specific ladder logic segments, diagnostic buffers, tag tables and more. This enables administrators to establish a backup snapshot with the “last known good state” for faster recovery and compliance with industry regulations.

Tenable.ot Components

Tenable.ot's solution is comprised of several components:

- **Core Platform**

Collects and analyzes network traffic either directly from the network (via a span port on the switch to which it is connected or through a network tap) and/or using the data feed (of captured network traffic) from the sensors.

- **Sensors**

You can deploy small optional rack mount or DIN rail, sensors on layered or complex network segments that need monitoring. They are typically connected to one sensor per managed switch.

Integrations

Tenable.ot integrates with the larger Tenable product portfolio including:



Gain full visibility of all vulnerabilities that include both your IT and OT assets. You'll know which vulnerabilities take priority with a Vulnerability Priority Rating (VPR) score with each and every alert.



For distributed environments or locations that cannot accommodate additional physical gear, leverage to power of the cloud with all of the intelligence gained from Tenable.ot being send to Tenable.io for a “zero footprint” OT security solution.

For More Information:

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