tenable®

Tenable.ot for Waterfall

WATERFALL®
Stronger Than Firewalls

Business Challenge

Industrial control systems (ICS) are the bedrock of manufacturing processes and critical infrastructure. It is essential that these systems, which operate on operational technology (OT) networks, execute flawlessly and without fail. One of the major and more recent threats to this goal is the increase in security-related issues that specifically target your industrial network. The combination of an increased attack surface and attack vectors forces organizations to re-examine their entire security posture.

Convergence of your IT and OT environments is one of the larger factors that contributes to the increase in your attack surface and vectors. What you once physically air-gapped, now requires technology to view and manage IT and OT activity and threats without creating new ones.

Solution

Tenable.ot protects industrial networks from cyber threats, malicious insiders and human error.

From threat detection and mitigation to asset tracking, vulnerability management, configuration control and active query checks, Tenable.ot's capabilities maximize the safety and reliability of your operational and critical infrastructure environments.

Tenable.ot delivers comprehensive situational awareness across all sites and respective OT assets—from Windows servers to PLC backplanes—in a single pane of glass. With today's emerging threats, you need full visibility, security and control between your IT and OT environments, and where appropriate, you should separate your OT network from your IT network. In such cases, you should deploy the Waterfall USG in your OT network, where you need 360-degree monitoring.

By integrating Waterfall USG with Tenable.ot, you can trust that your internal and critical network is physically inaccessible from your external network while Tenable.ot monitors your sensitive network.

Technology Components

- Tenable.ot
- Waterfall Unidirectional Security Gateway (USG)

The Challenge

- IT and OT convergence increases the attack surface and attack vectors for your OT networks
- Achieving a comprehensive view in a single pane of glass
- Legacy OT systems are not specifically architected with built-in security
- Increased complexity and distribution of networks makes security and control of your environment difficult
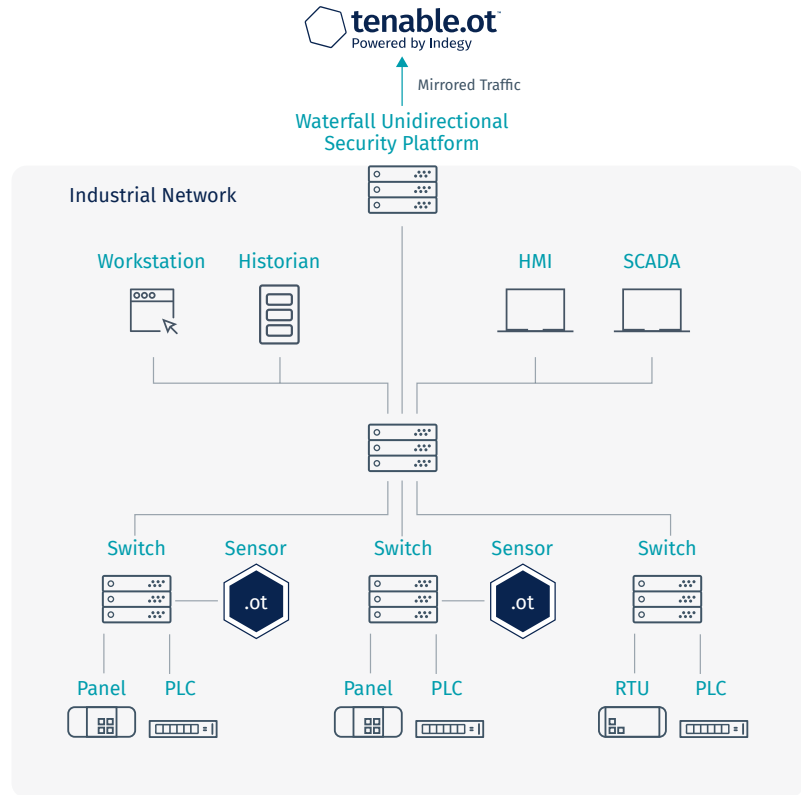- Increased targeting of manufacturing and critical infrastructure

Key Benefits

- Enables visibility, security and control of your OT network without introducing the risk of lateral threats
- Data can securely flow between different elements on different network segments without introducing risk
- An integrated solution makes it easy to configure and deploy network sensors in any part of your network architecture
- Tenable.ot detects threats that Waterfall Unidirectional Gateways block or stop
- Waterfall Unidirectional Gateways provide physical protection for industrial networks while allowing critical data and authorized data to flow between IT and OT segments for improved visibility, security and control.
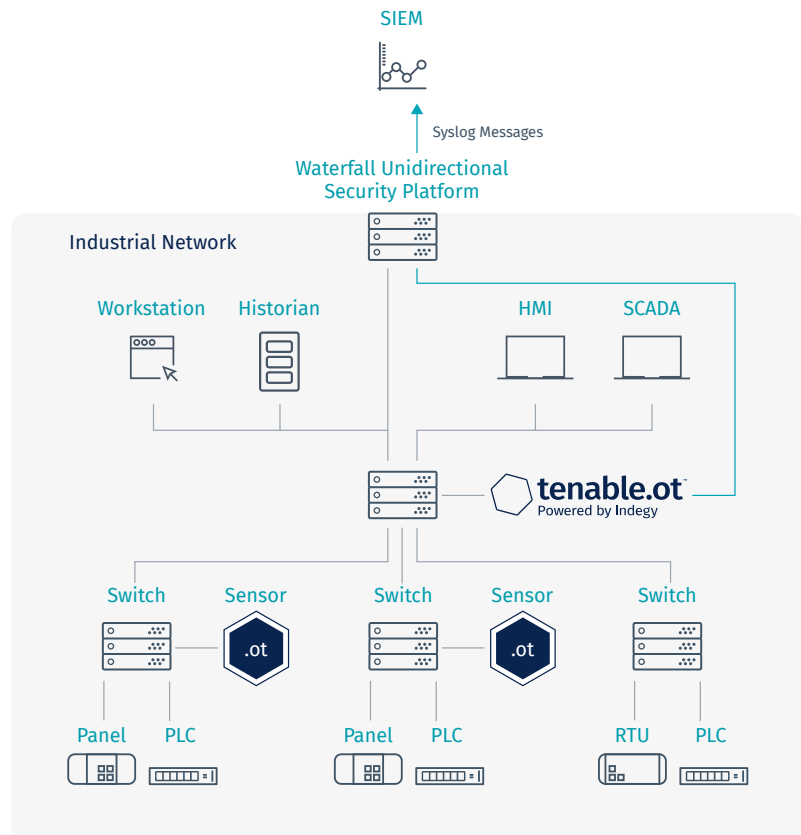
Key Components

There are three key scenarios where Tenable.ot and Waterfall work together to pass needed data while ensuring a diode-based air-gap between networks:

1. A sensor is located on the critical/OT network and forwards captured traffic to Tenable.ot, which resides outside of the OT network. A Waterfall USG protects your industrial network and the sensor so authorized traffic can securely pass through the gateway.

tenable.ot
Powered by Indegy

↑ Mirrored Traffic

Waterfall Unidirectional Security Platform

Industrial Network

Workstation   Historian   HMI   SCADA

Switch   Sensor   Switch   Sensor   Switch
          .ot   .ot

Panel   PLC   Panel   PLC   RTU   PLC

2. Tenable.ot, which is part of your critical network, will send alerts/syslog messages to a SIEM, which resides outside of your critical network.

SIEM

↑ Syslog Messages

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ABOUT TENABLE

Tenable®, Inc. is the Cyber Exposure company. Over 30,000 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 30 percent of the Global 2000 and large government agencies. Learn more at **www.tenable.com**.

ABOUT WATERFALL SECURITY

Waterfall Security Solutions is the global leader in industrial cybersecurity, protecting critical industrial networks since 2007. Our mission is to revolutionize how entire industries protect physical assets and industrial processes from cyber attacks. Waterfall's patented, unidirectional products enable safe IT/OT integration, remote monitoring and diagnostics, cloud connectivity and tamper-proof forensics, without the vulnerabilities that always accompany firewalled connectivity.

Learn more: **waterfall-security.com**
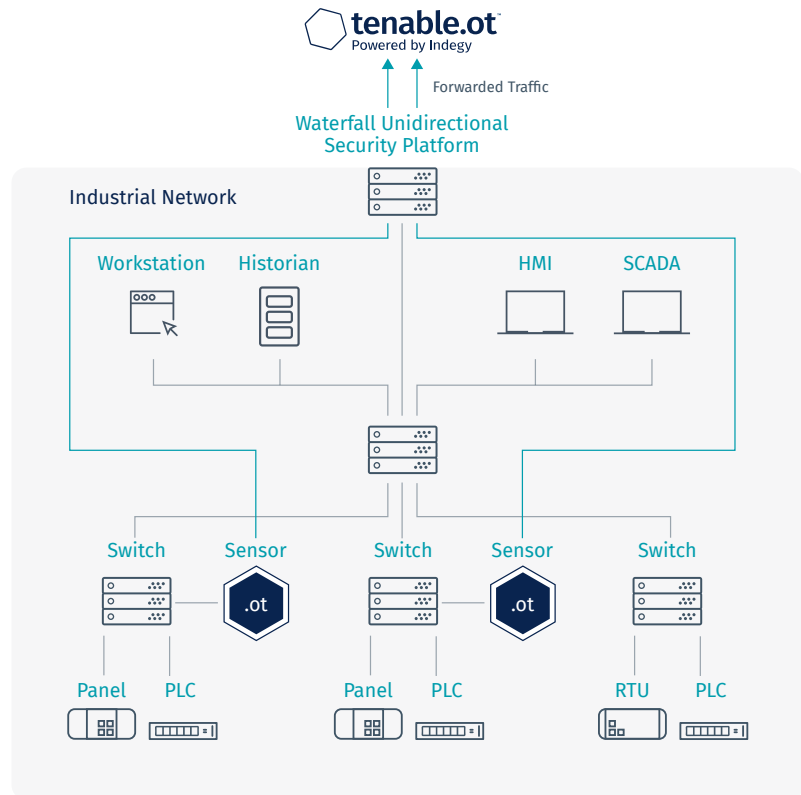
3. The Waterfall USG captures traffic from your critical network through a local mirror or SPAN port and makes that traffic available directly to an ICP (located outside of the critical network) for analysis.

More Information

For support please contact: **support@tenable.com**