Industrial Defender and Phoenix Contact Security Solutions

Industrial Switching Platform with Integrated Industrial Defender sensor for Simplified Security Deployments for OT

Overview

With the convergence of IT and OT networks, the increase of cyber threats is a growing concern. Operators of Mission Critical Networks (OT environments) such as Power Utility, Nuclear, water utilities, Oil and Gas, must deploy security measures to protect intrusions from the IT Enterprise network. Security controls against these new and existing cyber threats need to be tightly integrated within the network and communications architecture of these connected systems. OT environments are characterized by harsh environmental conditions and are remote and inaccessible in some instances.

Phoenix Contact and Industrial Defender have established a strategic technology partnership to help OT asset owners address cyber threats by integrating the Industrial Defender Platform into Phoenix Contact's leading edge Raptor series L2/L3 multi service platform. This solution creates a single appliance for OT Applications to enable communications and manage risk for their field devices.

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Benefits	• **Simplified deployment of the Industrial Defender Platform in ICS/OT environments with a low-footprint sensor.** • **Reduce the need for dedicated hardware for Industrial Defender Platform deployments with Phoenix Contact Raptor switches.** • **Comprehensive OT asset data in a unified security & compliance platform.** • **Provides deeper-level asset data and vital endpoint information, along with historical context and change detection.** • **Tightly integrate ICS/OT asset management with network infrastructure, reducing need for SPAN/ Mirror ports and reducing operational latency.**

The Solution

The EP Series Raptor switch is an intelligent cybersecure hardware platform with 64 Gb/s full line speed with up to 4 x 10Gb/s + 24 1Gb/s ports running a feature rich embedded OS. The Raptor embedded OS is an all-encompassing operating system that supports L2/L3 switching and routing on a single platform. Its modular system of field replaceable modules, redundant hot-swappable power supplies, and ability to run third party software applications makes it a very flexible platform for today and the future. Combined with Industrial Defender, Raptor will enable industrial applications to have "best in breed" OT security solutions. This will include OT asset management based on deeper-level asset data, change and configuration management, vulnerability management, and policy compliance.

The EP switches enable reliable and safe operation in extreme ambient conditions. The managed switch portfolio meets the stringent requirements of IEC 61850-3 and IEEE 1613 standards and is ideal for critical infrastructure and power supply applications. The EP switches combine security, reliability, and flexibility in one device with built-in, comprehensive security functionalities on a hardened modular platform.

Figure 1
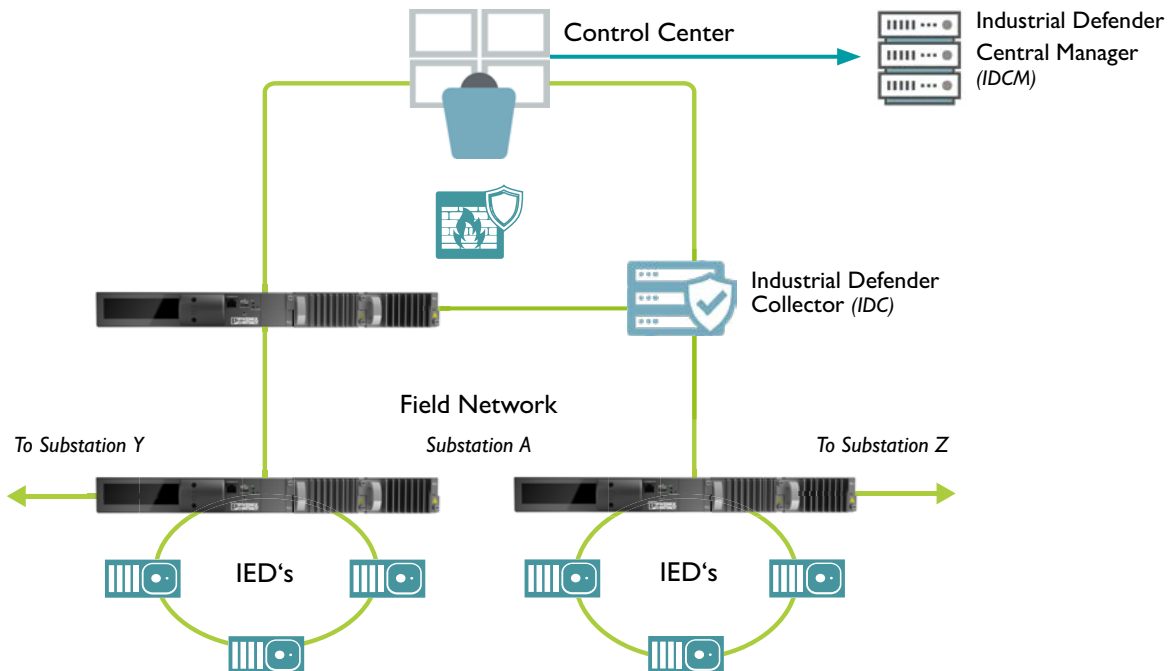
Industrial Defender Platform Capabilities

- OT Asset Management: OT Asset Management (OTAM) extends beyond visibility, providing asset owners and operators with comprehensive insights into their environment, including information that's not accessible over the network or through passive monitoring alone. Industrial Defender's integrated data collection approach supplies the necessary details to manage settings, changes, and risks of all OT assets, including those that are hard-to-reach or offline. By centralizing and automating data collection from various sources, OTAM offers a unified and reliable solution for identifying, monitoring, and managing OT assets across your environments.

- Change and Configuration Management: Change and configuration management is a crucial process that ensures the secure configuration of systems and evaluates any changes for potential security risks and compliance issues. The Industrial Defender platform automates the collection, normalization, and reporting of changes across OT systems. Users can easily create asset baseline configurations that our change detection engine compares with actual configuration data, including ports and services, users, software, and patches and firewall rules.

- Vulnerability Management: When assessing vulnerabilities in ICS/OT operational environments, a different approach is required compared to traditional IT. Industrial Defender recognizes the unique design, context, and critical nature of OT assets, offering an operationally safe method for identifying vulnerabilities. Our platform provides an accurate, complete, and up-to-date view of known vulnerabilities across your OT environment. Additionally, Industrial Defender enables intelligent prioritization of patching efforts, employing risk-based scoring tailored to your specific environment.

- Policy Compliance: Industrial Defender streamlines the process of collecting and reporting compliance data. With its comprehensive data collection capabilities and the ability compare historical data, the Industrial Defender platform is uniquely equipped to meet leading OT standards and regulations. The platform facilitates audit-ready reporting for a variety of industry frameworks, including NIST, NERC CIP, CMMC, NIS2, and Australia's CIRMP Rules/AESCSF.

Advantages of The Integrated Phoenix Contact and Industrial Defender Platform Solution Include:

- More efficient security operations by integrating technologies

- Simplify the monitoring of East-West network traffic for OT networks for improved visibility to monitor, detect and respond to threats

- Reduces the need for dedicated hardware by leveraging edge computing deployments with a low-footprint appliance for passive network monitoring

- Reduce risk while ensuring operations of critical infrastructure and business continuity

Performance

System Capacity on Phoenix Contact MCP Computing Module: 250 assets

Related Products

Chassis	Description	Designation	Item No.
	FL SWITCH EP7400 Series Chassis. IEC 61850-3 / IEEE 1613, Layer 2/3 Switch, -40°C to +85°C Operating Range. Supports up to 28 ports total.	FL SWITCH EP7428R-L3F1	1144353
	FL SWITCH EP7400 Series Chassis. IEC 61850-3 / IEEE 1613, Layer 2/3 Switch, -40°C to +85°C Operating Range, Supports up to 24-ports PoE, 28 ports total.	FL SWITCH EP7428R-L3F1P	1539668

Chassis	Description	Designation	Item No.
	FL SWITCH EP7500 Series Chassis Security enabled. IEC 61850-3 / IEEE 1613, Layer 2/3 Switch, -40°C to +85°C Operating Range. Supports up to 28 ports total.	FL SWITCH EP7528R-L3F1	1539667

MCP Computing Module	Description	Designation	Item No.
	MCP Computing Module , Ubuntu, 256GB storage	FL SWITCH EP7400-MCP-L-256GB	1539661
	MCP Computing Module , Ubuntu, 512GB storage	FL SWITCH EP7400-MCP-L-512GB	1539663
	MCP Computing Module , Ubuntu, 1TB storage	FL SWITCH EP7400-MCP-L-1TB	1539665
	MCP Computing Module , Ubuntu, 2TB storage	FL SWITCH EP7400-MCP-L-2TB	1539666

About Industrial Defender

Industrial Defender is the single best source of OT asset data. For more than decade, Industrial Defender has been solving the challenge of safely collecting, monitoring, and managing OT asset data at scale, while providing cross-functional teams with a unified view of security. Our mission is to protect our customers' reputations and competitive edge as the cyber-physical landscape evolves. U.S. based and established in 2006, we have built a reputation as trusted cybersecurity and compliance partners to the largest industrial and critical infrastructure operators in the world. Learn more at www.industrialdefender.com
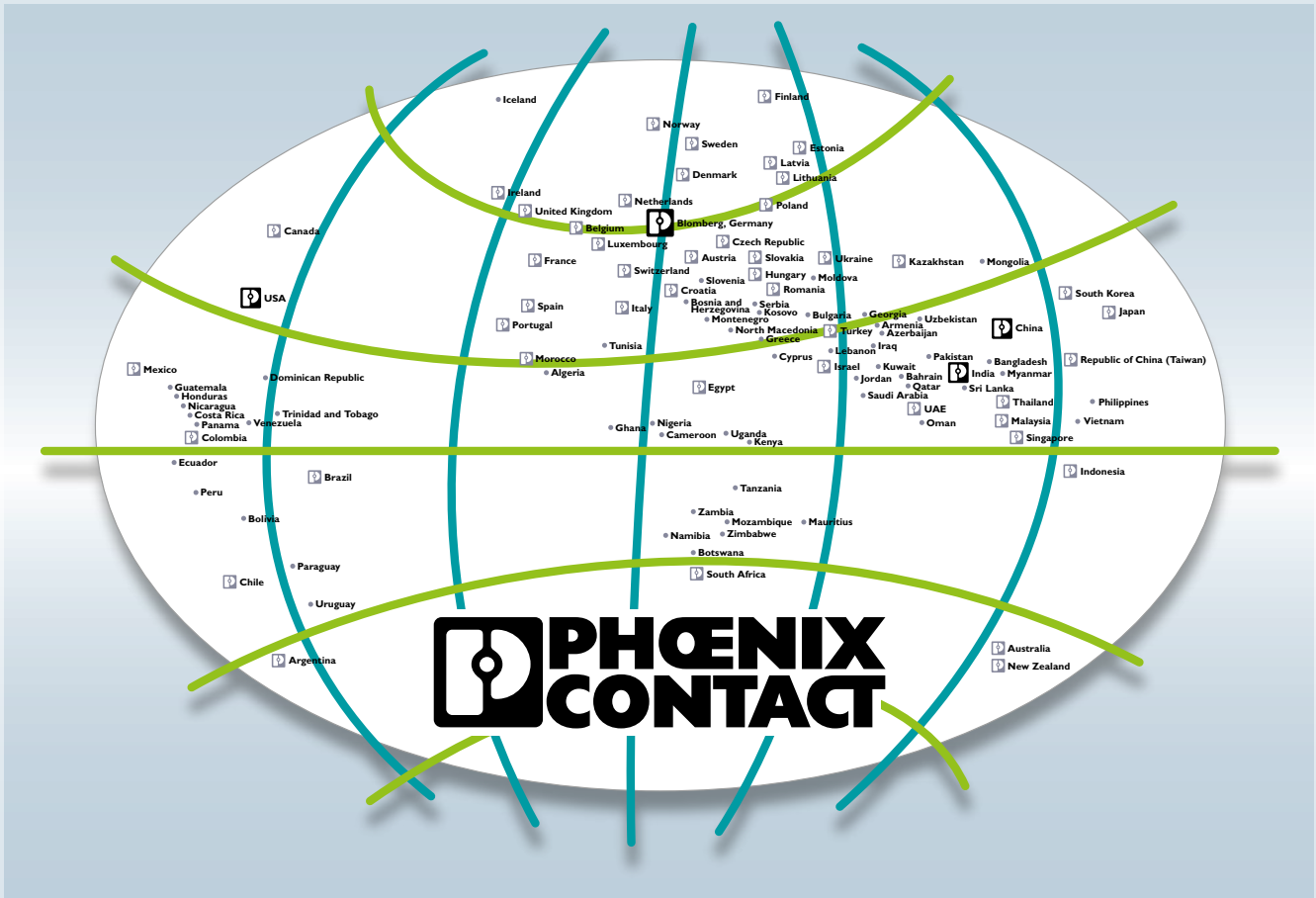
Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing future-oriented products and solutions for the electrification, networking, and automation of all sectors of the economy and infrastructure. With a global network reaching across more than 100 countries with over 22,000 employees, we maintain close relationships with our customers, something we believe is essential for our common success.

Our wide range of innovative products makes it easy for our customers to implement the latest technology in a variety of applications and industries. This especially applies to the target markets of energy, infrastructure, industry, and mobility.

You can find your local partner at

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