Forescout and Phoenix Contact Security Solutions

Industrial Switching Platform with Integrated Forescout eyeInspect for Enhanced Security and Simplified Deployments

Overview

As IT and OT networks converge, the increase of cyber threats is a growing concern within Mission Critical Networks (OT environments) such as Power Utility, Nuclear, water utilities, Oil and Gas, and more. 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 must deploy security measures to protect against the new risks of interconnectivity with IT networks and third parties, new IoT devices and increasing cyber threats. OT environments are characterized by harsh environmental conditions, are remote and inaccessible in some instances and security measures may not interfere with operations.

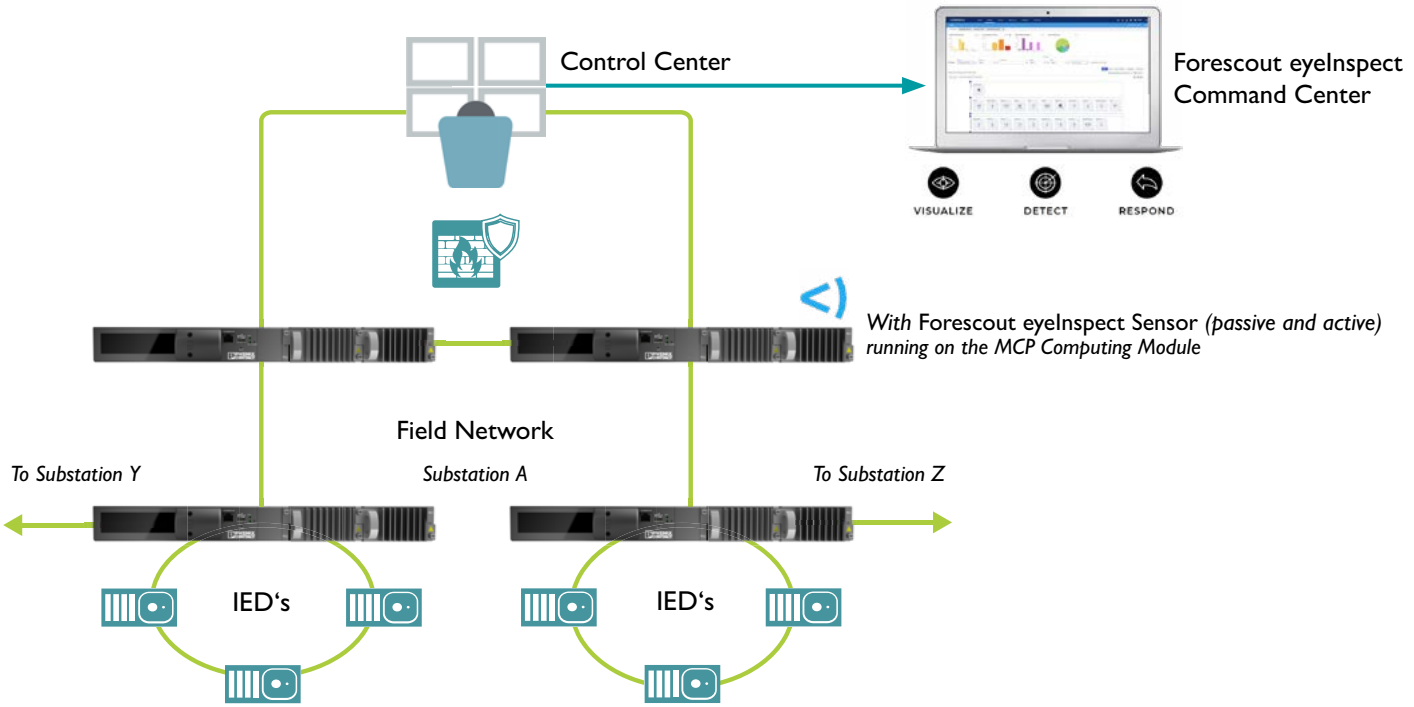
Phoenix Contact and Forescout have established a strategic technology integration to address the challenges of cyber threats by integrating Forescout's OT network monitoring solution, eyeInspect, into Phoenix Contact's leading edge Raptor series L2/L3 multi service platform. This solution will enable customers to provide a single appliance for OT Applications to enable communications and manage risk for their field devices.

Benefits	• **Singular multiservice platform solution with network communications, device visibility and risk management for OT environments on a single appliance** • **Robust Industrial Design, compliant with IEC61850 and IEEE 1613 standards** • **Ease of implementation – Simplified management, smaller footprint, single power source, simple integration** • **Supports passive and active eyeInspect sensors**

Solution

The Raptor 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 Forescout eyeInspect, Raptor will enable industrial applications to have "best in breed" OT security solutions with ease. This will include real-time device visibility, rich contextual situational awareness, both cyber and operational threat detection as well as streamlined risk and compliance management specific to OT environments.

Figure 1: Network Topology example for electric substations



Forescout eyeInspect

Forescout eyeInspect enables organizations to:

- Auto-discover and classify OT, IoT and IT devices using passive Deep Packet Inspection and active queries, and assess security and operational risks and regulatory compliance
- Automatically establish a baseline of admissible network behavior
- Detect security and operational threats using thousands of ICS/OT-specific threat indicators, behavioral checks and passive vulnerabilities assessment
- Aggregate thousands of alerts and millions of logs according to their risk level and cause

Visualize	**Detect**	**Respond**
Visualize thousands of devices in a single view:	Detect threats and manage risks intelligently:	Respond with the world's most intelligent and scalable OT security solution:
• Passively obtain an accurate, real-time asset inventory without disrupting operations • See IP-enabled and serial connected OT and IoT assets, including HMIs, SCADA, PLCs, IEDs and building management systems (BMS) • Prioritize alerts and view logs according to various parameters, including time, devices, network location and alert type	• Detect known and unknown cyberthreats using thousands of ICS/OT-specific threat checks and indicators of compromise (IOC) • Detect cyber and operational risks and prioritize them according to the level of urgency and potential impact on the business • Detect noncompliant assets and policies throughout the network • Detect and track changes, including new devices and irregular operational activity	• Leverage intuitive risk scores to respond to cyber and operational threats which simplifies response decisions • Automated workflows, rules, and remediation actions enable real-time response to threats as they emerge • Respond to compliance changes with asset baseline- defined rules, parameters, and reports

Performance

Maximum sustained monitoring speed with no packets dropped on Phoenix Contact hardware appliances: 210Mbps

Related Products

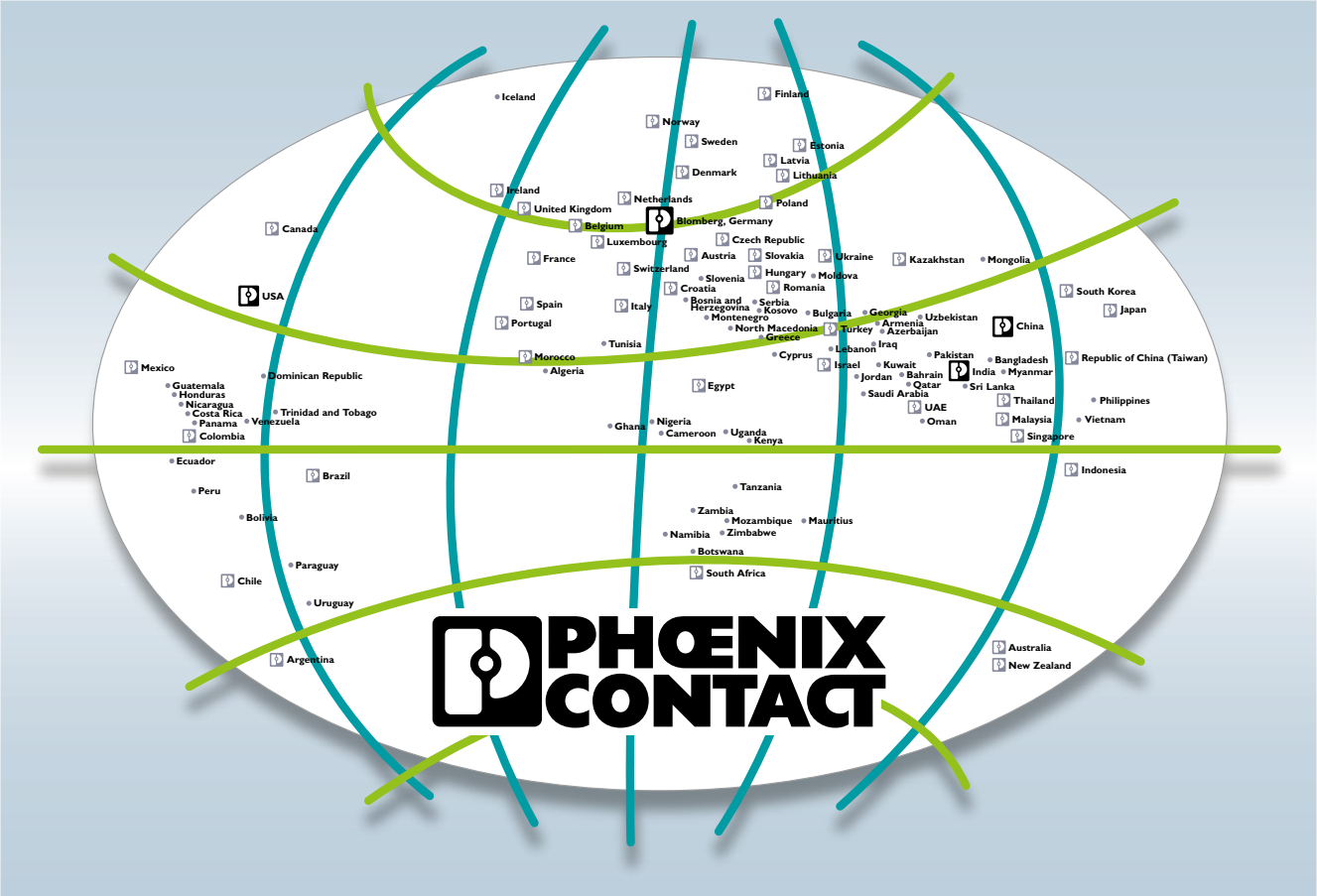
Chassis	Description	Designation	Item No.
	FL SWITCH EP7400 Series Chassis. IEC 61850-3 / IEEE 1613, Layer 2/3 Switch, -40°C to +85°C Operating Range. Supports up to 28 ports total.	FL SWITCH EP7428R-L3F1	1144353
	FL SWITCH EP7400 Series Chassis. IEC 61850-3 / IEEE 1613, Layer 2/3 Switch, -40°C to +85°C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

Details of the related Forescout products are available at: https://www.forescout.com/solutions/ot-security

About Forescout Technologies Inc.

Forescout Technologies, Inc., a global cybersecurity leader, continuously identifies, protects and helps ensure the compliance of all managed and unmanaged cyber assets – IT, IoT, IoMT and OT. For more than 20 years, Fortune 100 organizations and government agencies have trusted Forescout to provide vendor-agnostic, automated cybersecurity at scale. The Forescout Platform delivers comprehensive capabilities for network security, risk and exposure management, and threat detection and response. With seamless context sharing and workflow orchestration via ecosystem partners, it enables customers to more effectively manage cyber risk and mitigate threats.

For more information, visit: https://www.forescout.com/company/



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

phoenixcontact.com

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