

Phoenix Contact and Xona Security Solution

Industrial Switching Platform with Integrated XONA Critical System Gateway (CSG) for zero-trust user access for remote and mobile operations and simplified deployments



Overview

An increasing shortage of qualified Operational Technology (OT) professionals combined with geopolitical and pandemic risks have created an urgent need for simple, secure and compliant remote and mobile operations. In addition, cyber threats are a growing concern within critical infrastructure networks (OT environments) such as power utility, nuclear, water utilities, oil and gas, and more. The security architecture needs to protect critical communications while providing frictionless user access to control systems around an industrial site or remotely.

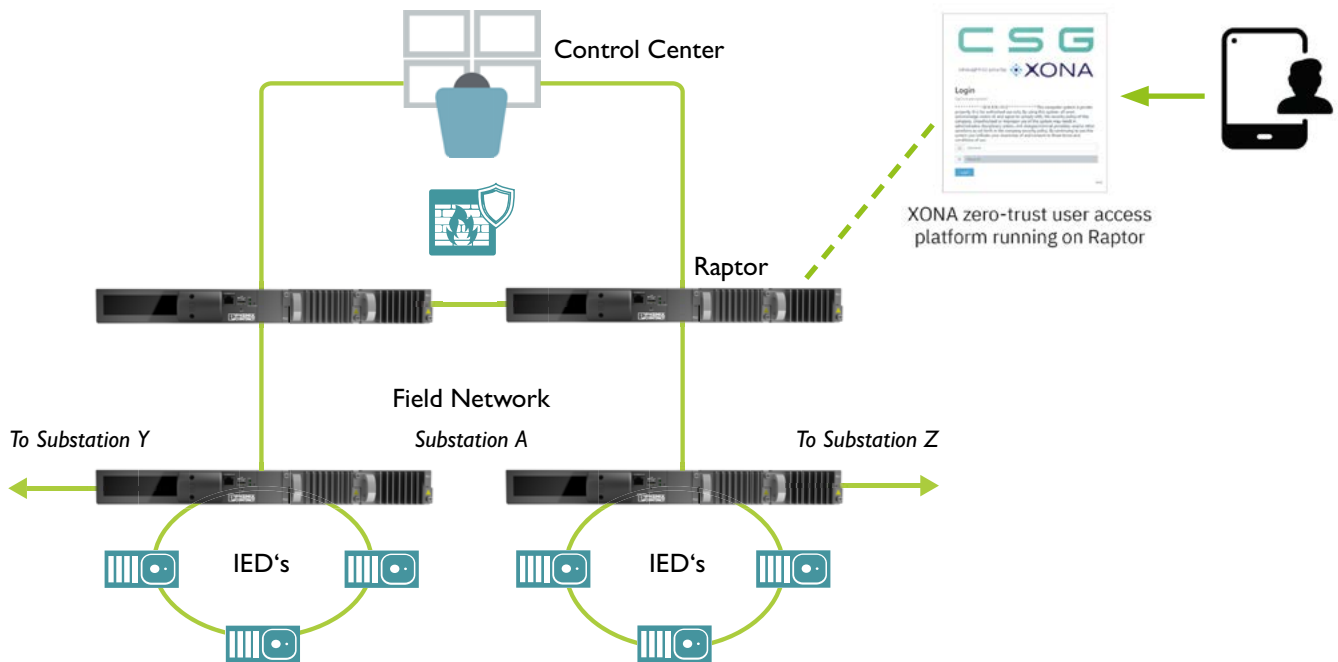
Phoenix Contact and XONA have established a strategic technology integration to address the challenges of cyber threats by integrating XONA's OT user access platform, CSG, into Phoenix Contact's leading-edge Raptor series L2/L3 multi-service platform. This solution will enable customers to provide a single appliance for zero-trust remote and mobile OT operations.

Benefits	<ul style="list-style-type: none">• Singular multiservice platform solution with network communications and zero trust access management on a single appliance• Robust industrial design, compliant with IEC61850 and IEEE 1613 standards• Ease of implementation – simplified GUI management, smaller footprint, single power source, simple integration
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Solution

The Raptor is an intelligent cybersecure hardware platform with 64 Gb/s full line speed and 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, including HRR and PRP. 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 XONA CSG, Raptor will enable zero-trust remote and mobile operations of OT assets. This will include multi-factor authentication (MFA), clientless browser-based user access, asset and protocol isolation, secure file transfer as well as user access session logging and recording to meet risk and compliance objectives specific to OT environments.





XONA Benefits:




- Frictionless engineer, contractor and vendor access management via clientless browser-based access.
- OT communication protocols protected through protocol isolation – only allowing pixels to traverse back to remote user. No direct access to OT systems.
- Simple and flexible user access implementation for OT with integrated user management or through integrations with AD/LDAP and SAML. Support for SSO and MFA.
- CSG provides operational efficiencies for mobile plant operations (i.e. enabling mobile device control room HMI view while “walking around” the plant).
- Screen recording of user sessions for security, forensic or training purposes.
- Time and role-based access limits technician operations to specific functions.
- “Wait lobby” Access approval workflow feature for remote access ensures plant-level asset control during maintenance operations.

Performance

Individual hardware appliances scale from 25-250 users each. Virtual instances also available. Central manager allows aggregation of multiple appliances.

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



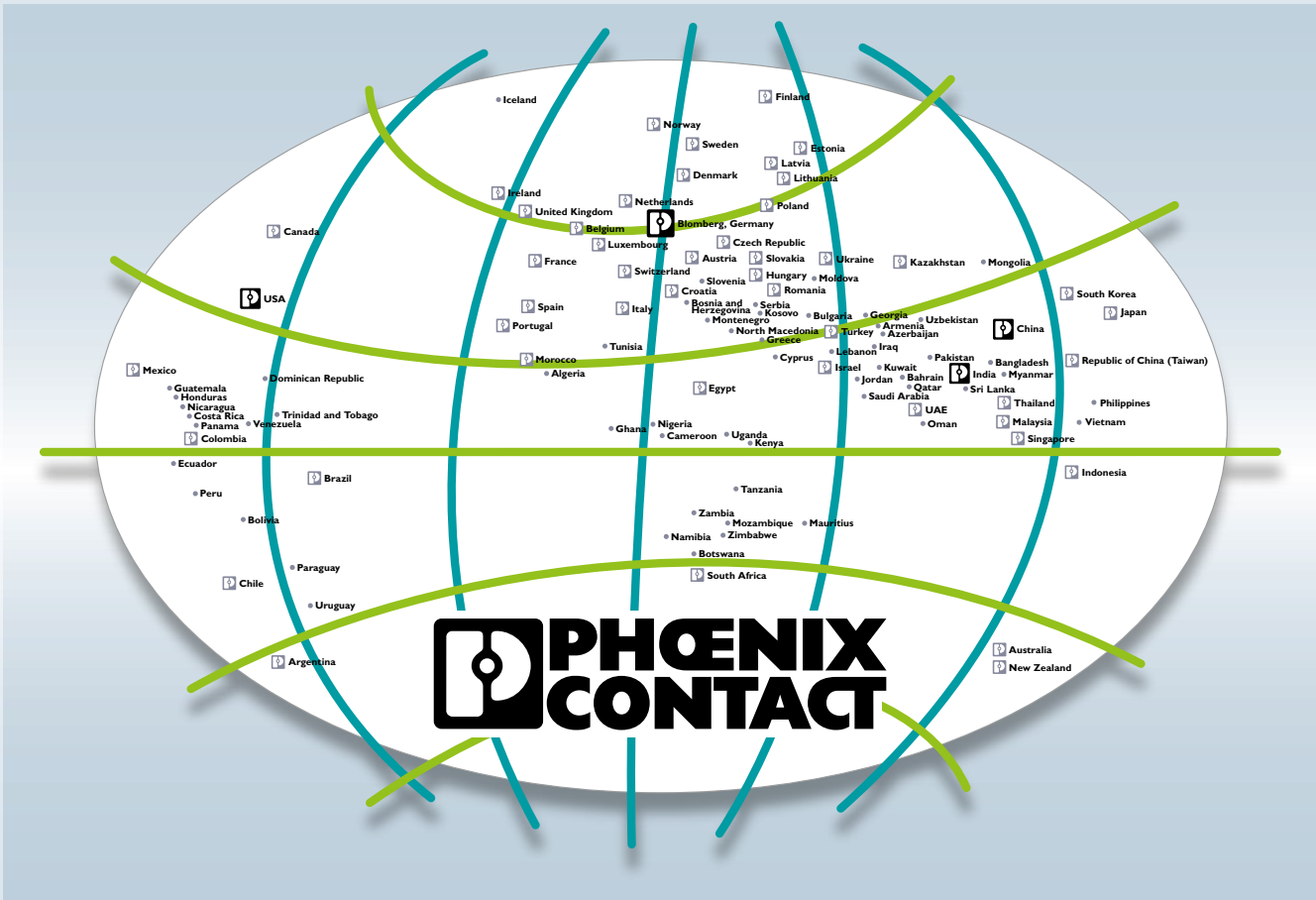
Product	Part Number	Product Name	Product Description
CSG	XON-SFTW-CSG	Gateway (CSG) Annual Software Subscription with SAML v2 SSO Enterprise	XONA Gateway (CSG - Critical System Gateway) Software (SW) for unlimited number of users and 10 asset connections on a single device. Features include SSH, VNC, RDP Protocol Support, Web Protocol, Relay Connection Firewall, Live User Connection Monitoring, Connection Session Logging and Screen Recording, Moderated Secure File Transfer (SFT) module, SAML v2 SSO capable.
ACP	XON-SFTW-ACP	Gateway (CSG) Annual Asset Connection Pack (ACP)	XONA Gateway (CSG) Asset Connection Pack - ACP are for the purchase of additional asset connections. ACP subscription is for 10 additional asset connections.
XCM	XON-SFTW-XCM	Centralizer (XCM) XONA Central Manager Annual Software Subscription	XONA Centralizer (XCM) offers a central access and authorization point for a network of CSGs. License is per CSG.

About XONA

Xona Systems is a leading provider of secure access solutions for critical systems and operational technology environments. By combining unmatched security with ease of deployment, Xona helps organizations reduce their attack surface and comply with industry regulations while offering the best user experience on the market. Trusted by industry leaders across energy, manufacturing, and utilities, Xona's solutions protect critical systems around the world.

Website: <https://www.xonasystems.com>

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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