

XONA™ and iS5 Communications 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.

iS5Com 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 iS5Com'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.

iS5 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 GUI management, smaller footprint, single power source, simple integration**

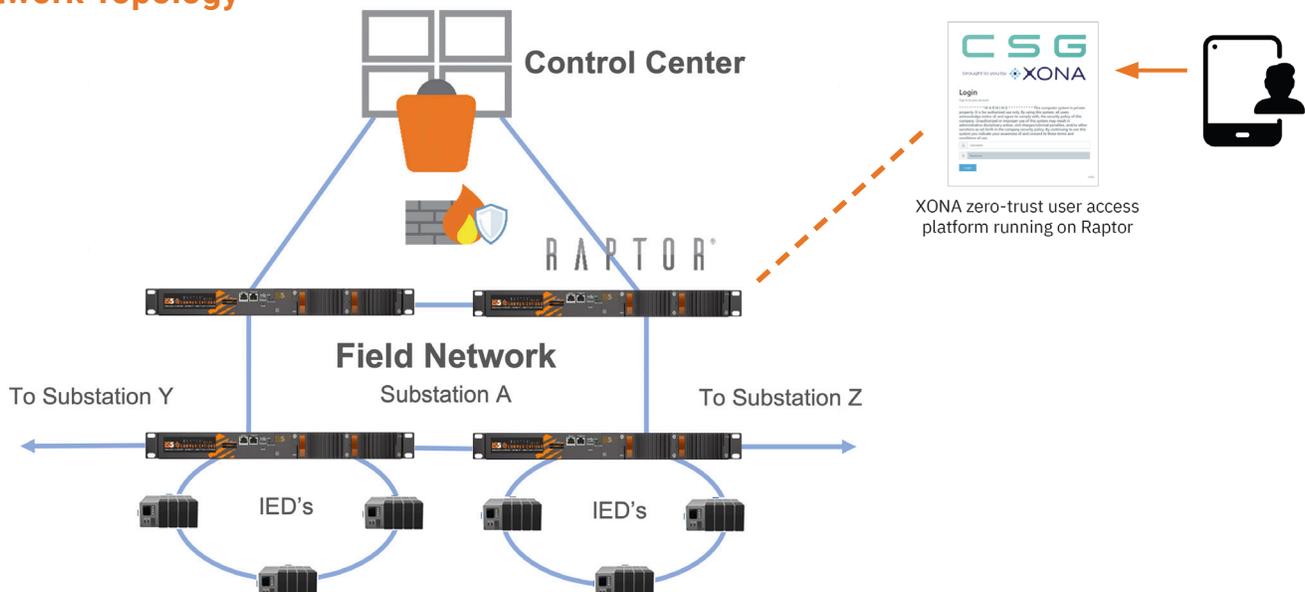
XONA BENEFITS

- 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
- Simple and flexible user access implementation for OT with no AD/domain controllers or cloud authentication requirement
- CSG provides operational efficiencies for mobile plant operations (i.e. enabling tablet 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” feature for remote access ensures plant-level asset control during maintenance operations

THE TECHNOLOGY

The RAPTOR is an intelligent cybersecure hardware with 64 Gb/s full line speed and up to 4 x 10Gb/s + 24 1Gb/s ports running the iBiome® OS. iBiome 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 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.

Network Topology



ABOUT XONA™

The XONA platform delivers the same operational capacity your workforce requires, plus the mobility and work-from-anywhere flexibility they demand. We help you make the most of reduced revenues and shrinking budgets by driving significant improvements in financial and resource management. Now more than ever, industrial organizations need the ability to remotely and securely access operational technology—anytime, anywhere, on any device. At XONA, we make that possible. We're trusted by GE, Baker Hughes, and other industry giants to deliver unmatched security without slowing the speed of work. Visit xonasystems.com to learn more.

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ABOUT iS5 COMMUNICATIONS INC.

iS5 Communications Inc. ("iS5Com") is a global provider of integrated services and solutions, and manufacturer of intelligent Industrial Ethernet products. Our products are designed to meet the stringent demand requirements of utility sub-stations, roadside transportation, rail, and industrial applications. iS5Com's services and products are key enablers of advanced technology implementation such as the Smart Grid, Intelligent Transportation Systems, Intelligent Oil Field, and Internet of Things. All products have the ability to transmit data efficiently without the loss of any packets under harsh environments and EMI conditions. Visit is5com.com to learn more.

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