

SECURE GRID ACCESS WITHOUT EXPOSURE

ZERO-TRUST ACCESS FOR MODERN UTILITY OPERATIONS

Introduction

Evolving Grids Demand Modern Access

As electric grids modernize, utility operators must confront new operational realities:

- Aging infrastructure paired with increasing digitization
- Third-party access requirements and expanding OT/IT convergence
- A surge in cyberattacks targeting remote access and legacy tools

The electric grid is evolving—and so are the threats. With growing cyberattacks, regulatory pressures, and distributed energy integration, utilities can no longer rely on legacy tools like VPNs and jump servers for remote access.

Outdated VPNs and jump servers were not designed for today's grid—and leave operators vulnerable to ransomware, lateral movement from cyber-attackers, and compliance failure.

GE Vernova Grid Solutions and Xona have partnered to deliver a modern, zero-trust solution for secure access across substations, control centers, and field assets—enabling operational continuity without increasing risk.

The Solution: GE Vernova + Xona

GE Vernova's Grid Solutions business and Xona have partnered to deliver a next-generation secure access solution tailored for grid infrastructure.

By integrating Xona's zero-trust, browser-based access platform with GridBeats™ automation and cybersecurity offerings, utilities gain a proven way to secure, manage, and monitor access across substations, control centers, and field assets—without increasing complexity.

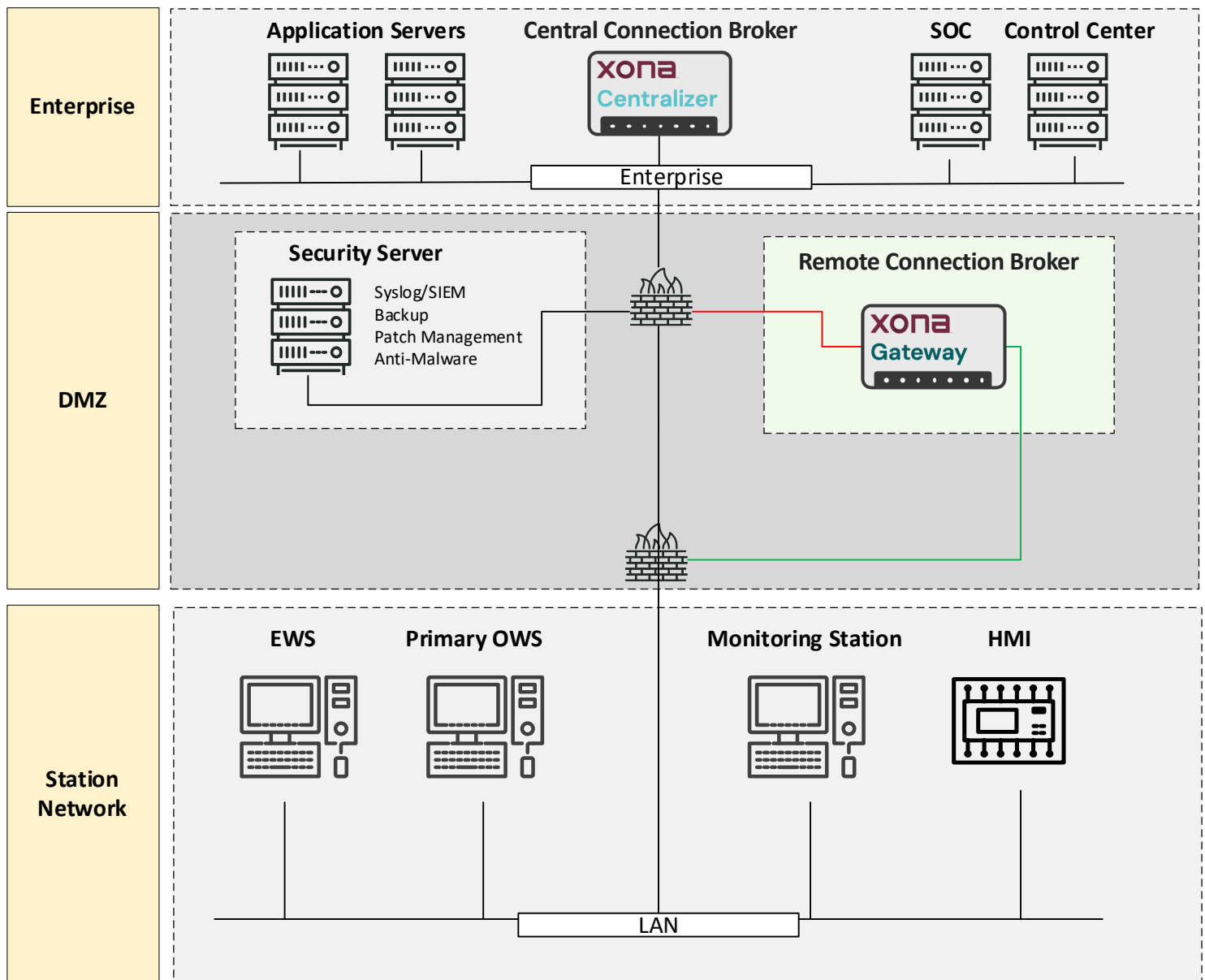
The joint solution delivers:

- **Protocol-Isolated Access** to GE Vernova's GridBeats™ systems, ensuring user endpoints never directly connect to critical grid infrastructure.
- **Browser-Based, Zero-Footprint Deployment** for remote engineers, field crews, and OEM technicians—no clients, agents, or VPNs required.
- **Full Real-Time Oversight of every user session**, empowering utilities to monitor, supervise, and audit all access activity.
- **Compliance-First Architecture** aligned with NERC CIP, IEC 62443, TSA SD2, and emerging grid cybersecurity mandates.
- **Just-in-Time and Role-Based Controls** for internal and third-party users, ensuring secure access is tightly governed across all touchpoints.

Joint Solution Highlights

- **No VPNs, No Jump Servers:** Protocol-isolated access via browser—no software installs, no tunnels, no open endpoints.
- **Rapid Deployment at Scale:** Deploy at a site in 20 minutes; works in air-gapped, low-bandwidth, or hybrid environments.
- **Real-Time Oversight and Governance:** Shadow or take over sessions, auto-record video, enforce time- and role-based access.
- **NERC and IEC Compliance, Built-In:** Aligns with NERC CIP, IEC 62443, TSA SD2, and other regulatory mandates
- **Supports Remote, Mobile, and 3rd Party Access:** Works across the entire grid operations workforce—internal, external, on-site, and remote

The Xona Platform Deployment



- **There are 2 Xona components:** The Xona Gateway (CSG) and the Xona Centralizer (XCM).
- **One Xona Gateway** is required per customer site or network security zone.
- **One Xona Centralizer** is optional and used for centralized user access and solution management and control.
- **Both the Gateway and Centralizer** can be deployed as hardware or as virtual appliances.
- **The Centralizer is available** in a 1U server hardware form factor or as a virtual appliance.
- **The Gateway is available** in a DIN rail mountable appliance, a 1U server hardware form factor, or as a virtual appliance.

Built for the Grid

Designed for Operational Realities

The joint solution supports GE Vernova’s GridBeats™ automation suite and integrates with existing industrial technology and operations cybersecurity offerings—forming a critical layer of the overall GE Vernova secure operations framework.

- **Browser-Based Access** – No clients, agents, or plugins required
- **Supports RDP, SSH, VNC** – Access legacy and modern OT systems
- **No Architectural Changes** – Overlay design fits any grid network
- **Multi-Identity Support** – Integrates with Active Directory, LDAP, SAML, and more
- **Deployable Form Factors** – 1U rack, DIN-rail, or virtual appliances

“As utilities modernize, they need secure access that keeps pace with operational and cybersecurity requirements. By expanding our partnership with GE Vernova to include Grid Solutions, we’re giving grid operators the tools they need to work without exposure, enabling secure, compliant access from anywhere, without disrupting operations.”

Roark Pollock
CMO and Strategic Alliances at Xona

“In the era of electric utility modernization, secure and compliant remote access is no longer optional - it's a strategic imperative for operational resilience, security, and regulatory compliance. GE Vernova’s GridBeats™ Cybersecurity solutions, through its partnership with Xona, empower utilities to achieve secure, anywhere access that meets the highest cybersecurity standards, safeguards continuity, and accelerates digital transformation without disrupting mission critical operations.”

Rusty Gavin
GridBeats™ Cybersecurity Product Line Leader at Grid Automation, GE Vernova

Modernize Grid Operations Without Compromise

Legacy VPNs and Jump Servers

Leave broad network security exposures

Agent-based, IT dependent

Complex to manage and scale

No user session awareness

Regulatory compliance limitations

GE Vernova + Xona Joint Solution

Endpoint isolation / no direct connection

Browser-based, zero footprint access

Centralized policy and identity control

Real-time monitoring and full session recordings

Designed for NERC CIP and IEC 62443

Industries Covered



ELECTRIC



OIL & GAS



MANUFACTURING



GOVERNMENT



BLDG AUTO SYS



CHEMICAL



PHARMACEUTICAL



WATER



FOOD & BEV



MINING



TRANSPORTATION

Why Choose GE Vernova + Xona?



Best-in-Class Secure Access: Zero-trust architecture keeps your critical systems safe against threats from insecure devices—so you have operational continuity and confidence that your most vital assets are always secure.



Works Across the Entire Grid Operations: Unifies identity administration across decentralized OT-IT identity stores, simplifying access management and policy enforcement for all employees, 3rd party contractors, and remote users.



Proven Track Record: Trusted globally by energy, oil & gas, manufacturing, and critical infrastructure organizations to simplify compliance with NERC CIP, IEC 62443, TSA SD2, NIS 2, and other security mandates.

Take the Next Step

Find out how GE Vernova and Xona can help you strengthen your secure remote access strategy while simplifying administration and compliance.

- Schedule a Consultation: Speak with our experts to discuss your specific security challenges.
- Experience a Live Demo: See the platform in action through a guided demonstration.
- Test the Technology: Deploy a trial version to experience the benefits firsthand.

Contact us today to learn more about how GE Vernova and Xona can transform your secure access!



GE VERNOVA

GE Vernova GE Vernova Inc. (NYSE: GEV) is a purpose-built global energy company that includes Power, Wind, and Electrification segments and is supported by its accelerator businesses. Building on over 130 years of experience tackling the world's challenges, GE Vernova is uniquely positioned to help lead the energy transition by continuing to electrify the world while simultaneously working to decarbonize it. GE Vernova helps customers power economies and deliver electricity that is vital to health, safety, security, and improved quality of life. GE Vernova is headquartered in Cambridge, Massachusetts, U.S., with approximately 75,000 employees across 100+ countries around the world. Supported by the Company's purpose, The Energy to Change the World, GE Vernova technology helps deliver a more affordable, reliable, sustainable, and secure energy future. For more information, please visit GE Vernova's [website](#) and connect on [social media](#).



Xona 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. Learn more at www.xonasystems.com.