THE XONA PLATFORM

Secure, Effortless, and Reliable Access Control

Secure Access Management for Critical Infrastructure

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INTRODUCTION

In today's rapidly evolving digital landscape, critical infrastructure industries are more connected and complex than ever before. However, this connectivity brings significant risks as organizations face escalating threats to their operational technology (OT), industrial control systems (ICS), and IT environments. Traditional access methods like VPNs and jump servers fail to provide the necessary security, leaving critical systems exposed to ransomware, malware, and operational disruptions.

The Xona Platform is purpose-built to address these challenges. As a secure access management (SAM) solution, it empowers organizations to protect their most vital assets with simplicity, efficiency, and unmatched security. The platform leverages cutting-edge technologies like disconnected access (using protocol isolation) and zero-trust architectures to eliminate insecure endpoints, reduce attack surfaces, and ensure regulatory compliance.

Trusted by leading organizations across energy, oil & gas, manufacturing, and transportation industries, the Xona Platform provides seamless access for employees, vendors, and partners—without compromising security or operational efficiency.

CORE USE CASES

The Xona Platform provides tailored solutions to address the most pressing challenges in critical infrastructure environments. Its comprehensive capabilities span multiple core use cases, enabling secure, efficient, and compliant operations.

Security

Protecting critical infrastructures from insecure endpoints.

Attack surface management

- Identity based segmentation

VPN/jump server replacement

Access

Extending identity-based access management for all users.

Secure remote access (SRA)

- 3rd party vendor & OEM remote aceess
- Session collaboration

Privileged access management

- Role based access control (RBAC)
- Identity based segmentation
- Time based access control (TBAC)

Control

Improving audit, compliance and governance.

Session logging and recording

Address compliance requirements

Access analytics

1 Secure Remote Access

Xona enables seamless and secure remote access for both OT and IT systems, supporting employees, third-party vendors, and OEM partners. With its session collaboration feature, remote experts can assist onsite personnel in real time, reducing downtime and enhancing productivity. By isolating insecure endpoints, Xona ensures that critical systems remain protected from cyber threats during remote access sessions.

2 Privileged Access Management

The platform provides granular access controls through role-based access (RBAC), identity-based segmentation, and time-based (TBAC) mechanisms. This ensures that only authorized users can access specific systems, applications, or assets, reducing the risk of insider threats and unauthorized access. Xona's privileged access management capabilities are integral to maintaining a zero-trust environment for critical systems.

3 Attack Surface Management

Xona's disconnected access technology eliminates insecure endpoints and isolates critical system protocols, significantly reducing the attack surface of operational systems. This proactive approach minimizes entry points for ransomware, malware, and other cyber threats, safeguarding critical assets from breaches and operational disruptions.

4 VPN / Jump Server Replace

Xona replaces outdated and less secure solutions like VPNs, jump servers, and RDP gateways with its modern, zero-trust architecture. This eliminates the need for complex configurations and reduces reliance on insecure technologies that expose critical systems to potential threats.

5 Compliance, Audit, and Governance

Xona simplifies compliance and audit with built-in features like real-time session logging and video recording. Its governance tools enable organizations to manage, monitor, and audit user activity with ease, ensuring adherence to regulatory requirements and improving overall system accountability.

KEY FEATURES

The Xona Platform delivers secure, effortless, and reliable access to critical infrastructure with features purpose-built to address the unique challenges of OT and IT environments:

1. Identity-Based Access Management. Xona ensures secure access for all users—onsite employees, remote workers, third-party vendors, and OEM partners—through role, identity, and time-based controls. By granting granular access based on user roles and responsibilities, the platform helps operators take back control of who, what, when, where, and how users can access critical systems.

2. Disconnected Access. The platform helps eliminate 100% of insecure endpoints that connect to critical systems by isolating critical system protocols, such as RDP, SSH, and VNC, from untrusted, transient user endpoints. This approach helps eliminate the number one threat to critical infrastructure, protecting critical assets from ransomware, malware, and other evolving endpoint based cyber threats.

3. Moderated File Transfer. The platform features secure, policy-driven file transfer for critical infrastructure. Xona enforces strict oversight through real-time monitoring, authentication, and moderation so organizations can securely exchange files without compromising operational integrity. Feature includes administrative oversight, malware scanning and enforcement, access controls and auditability, and a seamless user experience.

4. Agnostic Overlay Design. Xona operates independently of existing network architectures, requiring no changes or reconfigurations for deployment. This flexibility enables seamless implementation across on-premise, cloud, or hybrid environments, allowing organizations to deploy the platform in under 30 minutes per site.

5. Zero Footprint, User-Friendly Access. With no need for clients, agents, or plugins, Xona provides secure access via any modern web browser. Users can connect to authorized systems in just 3-clicks, ensuring an intuitive, seamless experience that enhances productivity from anywhere.

6. Real-Time Auditability and Governance. The platform records every user session with detailed logging and video capture, offering complete visibility into system activity. This enables compliance with regulations like NERC CIP and IEC 62443 while simplifying troubleshooting, governance, and user training.

7. Built For Regulatory Compliance. Xona helps organizations meet stringent global cybersecurity standards, including NERC CIP, IEC 62443, NIST 800-53, and TSA directives. Its compliance-ready features streamline audit processes and ensure adherence to industry regulations and best practices.

8. Enterprise Integration-Ready. Xona integrates seamlessly with identity providers (e.g., Active Directory, LDAP, SAML), multi-factor authentication solutions, OT asset management systems, business intelligence and IT service management tools. These integrations ease enterprise adoption and improve operational workflows.

9. Rapid Deployment and Administration. Designed for simplicity, the Xona Platform can be deployed in less than 30 minutes per site without network reconfiguration. This reduces administrative complexity, saving valuable time for IT and OT teams while ensuring secure access is operational with minimal effort.

KEY CUSTOMER BENEFITS

Reduced Risk

Xona eliminates direct connections between insecure endpoints and critical systems, significantly reducing the attack surface. This protects critical assets from ransomware, malware, and unauthorized access, ensuring operational continuity and system integrity.

Simplified Administration

By streamlining access management and requiring no network reconfiguration, the platform saves valuable time for IT and OT teams. Its centralized management interface and rapid deployment allow administrators to focus on strategic priorities rather than complex configurations.

Enhanced Regulatory Compliance

Xona aligns with key global cybersecurity standards, including NERC CIP, IEC 62443, NIST 800-53, FIPS 140-2, RMF, TSA directives, Saudi NCA OTCC-1:2022, and others. Its features simplify audit processes, helping organizations meet regulatory requirements with confidence and ease.

Improved Operational Efficiency

With its zero-footprint design and browser-based access, Xona enables users to securely connect to critical systems from anywhere in just three clicks. This ensures that employees, vendors, and partners can work seamlessly without compromising security.

Strengthened Governance and Visibility

Xona provides real-time session logging, video recording, and access analytics, giving organizations complete visibility into user activity. These features facilitate governance, support incident response, and enable proactive troubleshooting and training.

Maximum Flexibility

Xona's technology-agnostic, overlay design works with existing infrastructure and integrates seamlessly with identity providers, MFA solutions, and asset management systems. This ensures the platform can adapt to diverse environments and unique business needs.

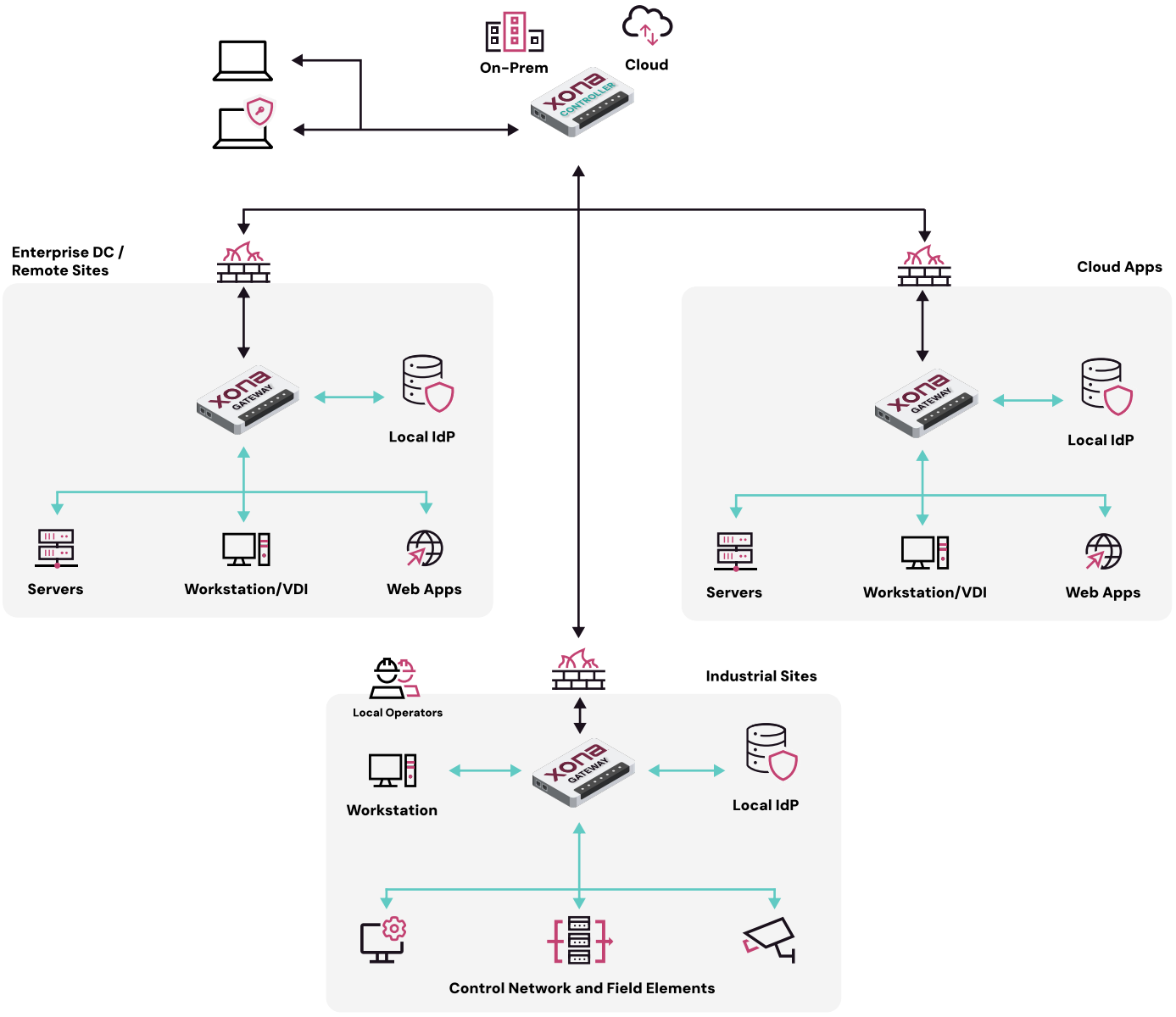
Cost Savings

By eliminating the need for legacy solutions like VPNs, jump servers, and RDP gateways, Xona reduces infrastructure costs and administrative overhead. Its lightweight deployment model also minimizes resource requirements, freeing up budgets for other priorities.

DEPLOYMENT OPTIONS

The Xona Platform deploys in 20 minutes and simplifies user access administration. Key deployment features include:

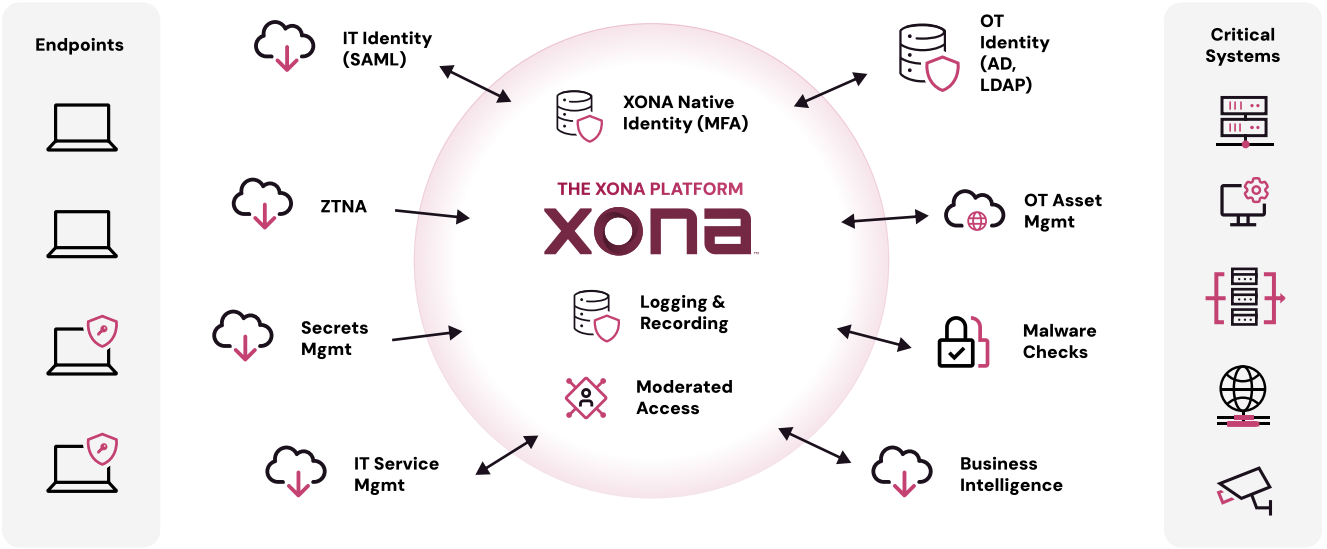
- No network architectural changes.
- Does not require cloud access.
- Deploys at different network layers.
- On-prem hardware includes 1U, and DIN rail options.
- Virtual appliances and cloud support.
- Multi-domain IdP integrations.



The Xona Platform

ENTERPRISE INTEGRATIONS

The Xona Platform seamlessly integrates with existing enterprise technologies, enhancing cybersecurity workflows and maximizing the value of your current investments. With support for a wide range of tools and systems, Xona ensures comprehensive and efficient access management across your IT and OT environments.



Xona Platform Enterprise Integrations

1. Identity and Access Management (IAM) Integration

Xona supports industry-standard identity providers (IdPs) such as SAML, Active Directory (AD), and Lightweight Directory Access Protocol (LDAP). These integrations enable streamlined authentication and authorization processes, ensuring secure access for all users.

2. Multi-Factor Authentication (MFA)

The platform integrates with enterprise MFA solutions to provide an added layer of security for user verification.

3. Zero Trust Network Access (ZTNA)

Xona complements existing ZTNA strategies by implementing identity-based segmentation and protocol isolation. This ensures a secure, controlled access environment without exposing sensitive networks to insecure endpoints.

4. OT Asset Management

Xona integrates with OT asset management tools to enhance visibility and control over critical systems. These integrations provide seamless oversight and governance for user access in OT environments.

5. IT Service Management (ITSM)

The platform works alongside ITSM solutions, enabling efficient coordination of access requests, incident management, and operational workflows. This reduces administrative overhead and enhances service delivery.

6. Secrets Management

Xona supports integration with enterprise secrets management tools, allowing for secure storage and handling of credentials. This ensures sensitive information is protected, even in distributed environments.

7. Business Intelligence and Analytics

With integration capabilities for business intelligence platforms, Xona provides actionable insights into access patterns and system usage. These insights support data-driven decision-making and continuous improvement.

Xona's broad integration capabilities ensure compatibility with existing enterprise ecosystems, simplifying implementation and driving operational efficiency without disrupting established workflows.

Visit www.xonasystems.com for more information. Or schedule a demo today to see how Xona can transform your secure access strategy.

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.

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