



**Cognizant's managed zero trust
SASE offering for manufacturing
vertical – powered by Zscaler**

Industry overview

The manufacturing industry is transforming with the integration of IoT, AI and automation, leading to smart factories and enhanced efficiency. This digital evolution improves productivity and agility but requires significant investment in infrastructure and workforce training. Manufacturers must also manage the complexities of integrating legacy systems with modern technologies, global supply chains, regulatory compliance and maintaining consistent quality across regions.

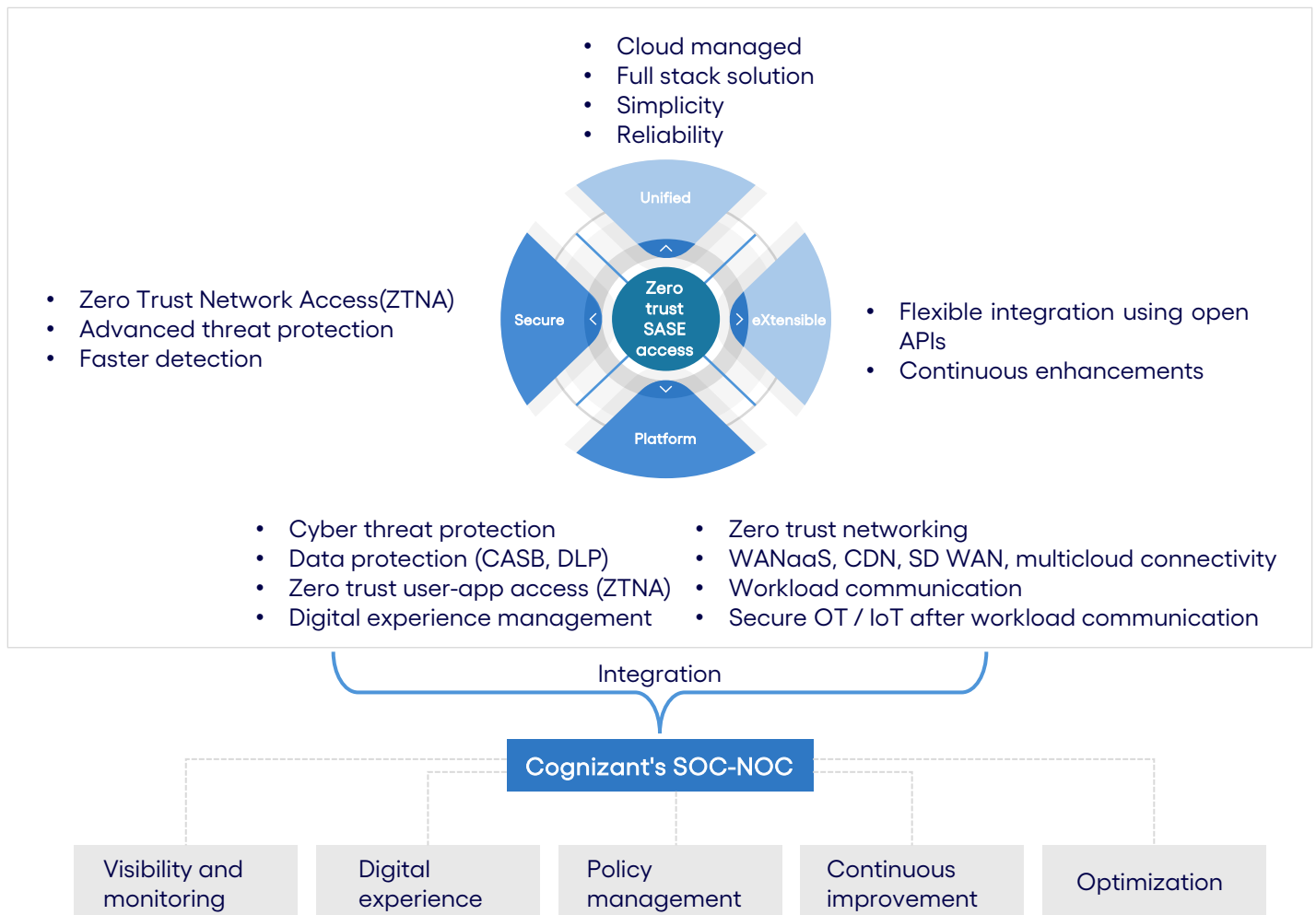
Key challenges:

- Legacy infrastructure: Outdated systems expose organizations to sophisticated threats
- Remote and hybrid work: Secure remote access is crucial, especially for IT and OT systems in industrial settings
- System integration: Combining IT and OT systems creates vulnerabilities in previously isolated environments
- Access management: Ensuring only authorized individuals can access critical systems is vital
- Supply chain vulnerabilities: Weak third-party defenses can compromise interconnected networks
- Cybersecurity skills gap: Shortage of skilled professionals leaves businesses vulnerable

Solution

Cognizant provides a tailored Secure Access Service Edge (SASE) solution for the manufacturing sector, integrating zero trust principles with cloud-native security and Zscaler's capabilities. SASE ensures secure access to cloud applications and IoT devices, real-time threat detection and centralized policy enforcement. It enhances supply chain security, reduces network complexity and optimizes performance across global facilities, making it essential for secure, efficient and scalable manufacturing operations.

Cognizant's managed zero trust SASE solution



Key capabilities

- Provides least-privileged, identity-based access to private applications without exposing them to the internet or placing users on the corporate network, reducing attack surface and limiting lateral movement.
- Delivers secure direct-to-internet and SaaS access with inline inspection, threat prevention and consistent policy enforcement across all user locations.
- Protects sensitive manufacturing data, intellectual property and business-critical information with inline inspection, SaaS security controls and data loss prevention across cloud applications and web traffic.
- Provides isolated, secure access for contractors, suppliers and other third parties engaging with web applications or high-risk content, reducing endpoint exposure and helping contain threats.
- Improves visibility into user-to-application experience across corporate, plant and remote environments, helping IT teams quickly identify and resolve performance issues.

Use cases

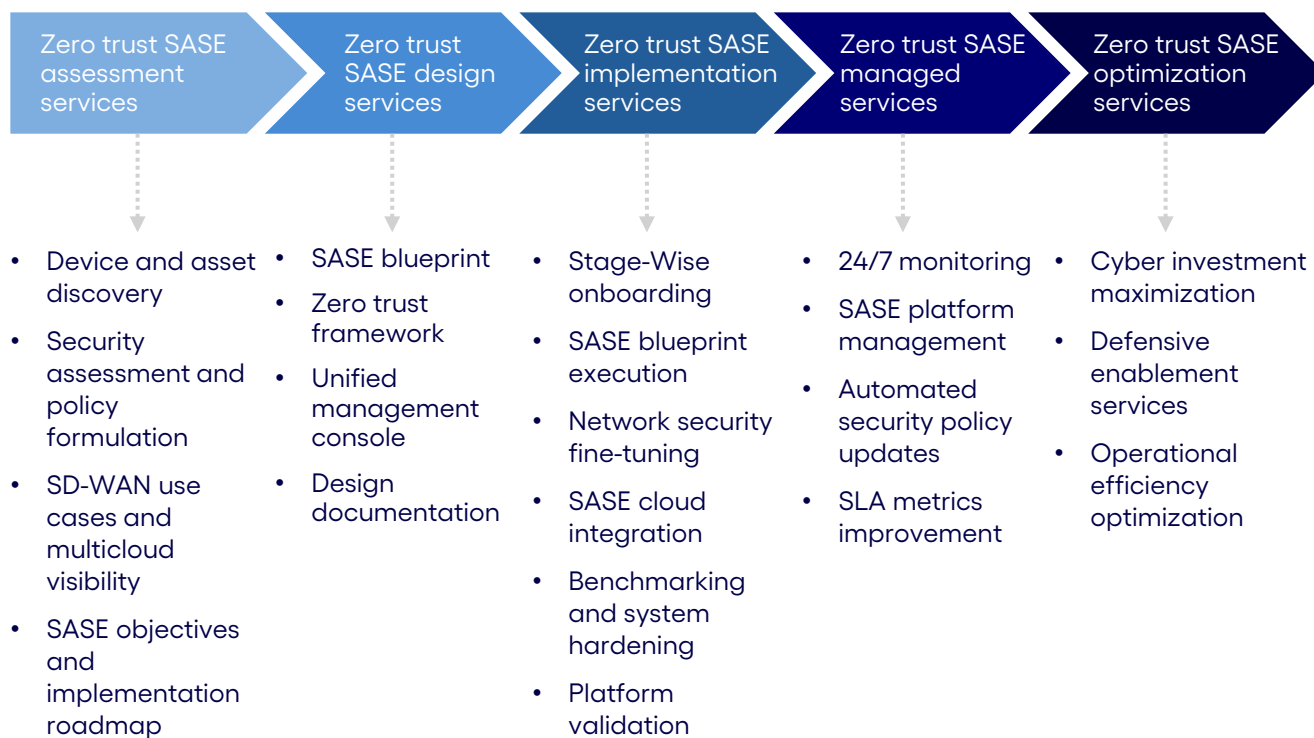
Our SASE services empower manufacturers with comprehensive solutions:

- Secure remote access to production systems
- Industrial IoT device protection against cyber threats
- Seamless cloud integration for manufacturing application
- Enhanced collaboration across distributed teams
- Real-time incident response for industrial control systems



Our offerings:

Cognizant's managed zero trust SASE offering provides a suite of services that help organizations evaluate their existing network security models, establish a target state and develop a transformation roadmap, migrate to target state and efficiently manage with analytics and reporting.



Benefits:

Key benefits include reduced attack surface, elimination of implicit trust, secure direct access to cloud and private applications, centralized policy enforcement and improved cyber resilience across distributed manufacturing environments. The solution also helps simplify legacy network architectures while supporting secure modernization at a global scale

Architectural benefits:



Global connectivity: SASE securely connects employees across multiple plants to SaaS and on-premises applications, supporting various networks like the internet, MPLS and cellular



Zero Trust Network Access (ZTNA): Facilitates least-privilege access controls, ensuring only authorized users and devices access specific resources, minimizing attack surfaces



Cloud connectivity: Enables access to production applications migrated to the cloud while supporting on-premises infrastructure



Data loss prevention: Prevents unauthorized access and exfiltration of sensitive data like production plans and intellectual property



Enhanced security: Enables faster detection, identification, response and remediation of cybersecurity incidents



Compliance with regulations: Helps organizations support data protection, operational resilience and regulatory requirements across global manufacturing environments.



Inline inspection at scale: Applies inline inspection, threat prevention, and data protection across all traffic users, workloads, and devices without compromising performance



Lateral movement prevention: Eliminates implicit trust and restricts lateral movement by isolating users and workloads from direct network access

Deployment benefits:



Smooth transition: Quick deployment makes the process nearly hassle-free
Improved user experience and collaboration: Enhances connectivity speed and performance, boosting employee satisfaction and productivity



Extended zero trust coverage: Extends zero trust security consistently to branches, factories, third-party vendors, and remote users beyond traditional network perimeters

Commercial benefits:



Cost reduction: Manufacturers can save up to 30% annually on licensing by transitioning to SASE, enabling consolidation and rationalization

By adopting SASE, organizations can achieve a secure, scalable and efficient network infrastructure that supports modern business needs and enhances overall security posture.

Why choose Cognizant?

With over 700 certified professionals and a proven track record of successful implementations, Cognizant helps manufacturers design, deploy and operate modern zero trust architectures aligned to industry requirements. Combined with the Zscaler Zero Trust Exchange™, Cognizant delivers a scalable, cloud-native approach that simplifies secure access, strengthens cyber resilience and supports transformation across users, plants, suppliers and applications.

Your path to secure and efficient operations: Enhance your manufacturing operations with Cognizant's Secure Access Service Edge. Experience secure, future-ready solutions designed to meet the dynamic needs of the manufacturing sector.

Transform your security landscape with Cognizant's zero trust managed SASE solution. Our cutting-edge framework provides seamless, secure access and robust threat protection, simplifying your security infrastructure. Contact us today to discover how we can help you achieve unparalleled security and efficiency. To know more contact : cybersecuritypulse@cognizant.com



Cognizant helps engineer modern businesses by helping to modernize technology, reimagine processes and transform experiences so they can stay ahead in our fast-changing world. To see how Cognizant is improving everyday life, visit them at www.cognizant.com or across their socials [@cognizant](https://www.instagram.com/cognizant).

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