



CASE STUDY

Securing the Future of Digital Manufacturing with Zero Trust Cyber Excellence

**A Global Leader in Digital
Manufacturing Partners with
ColorTokens for Zero Trust
Cybersecurity Excellence.**

Manufacturing
U.S.A.



Overview

A global leader in digital manufacturing, combining additive and traditional technologies with proprietary software solutions designed for other manufacturers and their customers, reducing costs, and improving supply chains. With access to a dozen additive technologies, six conventional manufacturing methods, hundreds of materials and finishes, and ISO 9001-compliant with multiple manufacturing facilities in USA, and in the Netherlands, the firm operates globally and has delivered more than 24 million parts to more than 1 million customers in more than 180 countries.

The prominent manufacturing platform needed a holistic cybersecurity solution that would help to attain granular visibility across multiple environments and locations. After careful evaluation and testing, the team selected ColorTokens for their cybersecurity needs.

The Challenge

With the dynamic landscape of digital manufacturing, the firm sought an assessment of the current cybersecurity posture to understand the security vulnerabilities across diverse environments. ColorTokens identified a few areas for improvement during the assessment, such as:

Post-Acquisition Visibility Gap: After a recent acquisition, the customer experienced a transitional phase where comprehensive visibility into products and the overall environment needed attention.

Complex IT Environments: Diverse IT environments and applications hosted across multiple locations and the cloud presented a potential risk of lateral movement.

Cloud Adoption Challenges: The journey towards cloud adoption commenced with insufficient visibility into application traffic and access controls, posing the risk of an unfamiliar attack surface.



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“As a leader in digital manufacturing, we needed a cybersecurity partner like ColorTokens. Our partnership is anchored in ColorTokens’ position as a leader in Zero Trust security solutions and a cultural alignment that combines deep expertise with collaborative approaches that are critical for meeting aggressive timelines in the dynamic field of Cybersecurity.”

————— CTO, leading digital manufacturing organization

Approach

ColorTokens swiftly addressed the firm's challenges through a comprehensive approach, leveraging Xshield Enterprise Microsegmentation Platform and Xassure, ColorTokens' Managed Security Services. Listed below are the key security use cases delivered through our end-to-end approach:



Analysis In-Depth: ColorTokens acted as a trusted consultant, delivering an extensive security posture report and recommending solutions to address identified gaps.



Panoptic Visibility: Xshield provided granular visibility into network communications, particularly in-house communications (W-E traffic), through microsegmentation.



Application Segmentation: Their servers were strategically segmented based on applications, establishing microsegmentation as the first line of defense across all applications.



Lateral Movement Prevention: By reducing the attack surface across server infrastructure, ColorTokens prevented lateral movement within multiple environments.



Managed Security Services: Our expert team analyzed all the security incidents and provided them with the required threat monitoring alerts along with necessary remedial steps for any qualified risks.



Vulnerability Assessment and Penetration Testing: Periodic assessments were conducted, and the team was promptly alerted of the vulnerabilities and necessary configuration changes. This involved continuous mitigation of observed gaps, regular vulnerability scans, validation of defense mechanisms using red/blue teaming, and penetration testing.



Ease of Implementation: ColorTokens supported the implementation of Xshield in their Kubernetes (EKS) environment, ensuring smooth integration and facilitating necessary communications.



Employee Training and Awareness: Tailored cybersecurity awareness training sessions equipped the firm's employees with best practices to identify and mitigate cyber risks in their daily operations.

Results and Benefits

In just a few weeks, the customer has achieved significant improvement in the security posture due to the implementation of our Xshield Enterprise Microsegmentation Platform and Xassure:

- 1. Stop Unauthorized Network Connections:** Over 72000 connections were proactively prevented from gaining access. By implementing robust network monitoring, filtering, and access controls, we were able to identify and block unauthorized or suspicious network activity, enhancing overall network integrity and performance.
- 2. Reduction of the Attack Surface by 73%:** By identifying and shutting down potential vulnerabilities, they achieved a robust defense against external threats.
- 3. Reduction of the Blast Radius by 91%:** Through segmentation and isolation techniques, the blast radius of potential attacks was significantly minimized, preventing widespread damage to their critical systems.

Conclusion

With ColorTokens, the digital manufacturing firm achieved a profound understanding of its security posture and promptly fortified its cyber resilience. The implementation of a tailored cybersecurity strategy encompassing risk assessment, microsegmentation, advanced threat detection, and employee training, positions the customer for sustained growth and innovation in the digital manufacturing landscape.

Furthermore, ColorTokens has played a pivotal role in dissecting the environment and implementing standardized processes. They have also managed cyber operations seamlessly on a single integrated platform, ensuring a non-disruptive transition towards enhanced cybersecurity at scale. With the full adoption of the zero-trust architecture, the digital manufacturing firm has successfully fortified its digital defenses, ensuring robust protection against cyber threats.

About ColorTokens:

ColorTokens, the leading enterprise microsegmentation company, stops the lateral spread of ransomware and malware within an organization's diverse network topology. The ColorTokens Xshield platform visualizes traffic flows between workloads, devices, and the internet, enforces granular micro-perimeters to stop unauthorized traffic, and isolates crown-jewel assets and compromised systems in response to a breach. ColorTokens protects organizations by stopping ransomware and malware in their tracks, saving millions of dollars in business operations interruption.

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