

Graphiant for Manufacturing – Transforming Connectivity for a Secure, High-Performant, and Scalable Network

SOLUTION BRIEF

In today's highly competitive manufacturing landscape, seamless connectivity is crucial for optimizing operations, improving supply chain visibility, and enabling smart factory initiatives.

Manufacturers require a robust, scalable, and secure network infrastructure to support real-time data exchange, Industrial IoT (IIoT) devices, and cloud-based applications. Graphiant Network as a Service (NaaS) delivers a next-generation networking solution that empowers manufacturers with enterprise-grade performance, security, and agility—all with the flexibility of a cloud consumption model.

Challenges in Manufacturing

1. Legacy Network Infrastructures

- a. Traditional MPLS and static VPN solutions are costly and struggle to meet the dynamic demands of modern manufacturing.

2. IIoT Connectivity & Scalability

- a. The increasing number of IoT devices requires a network that can scale securely and efficiently across multiple locations.

3. Supply Chain & Partner Connectivity

- a. Ensuring secure, real-time connectivity with suppliers, distributors, and third-party partners is complex and often slow to deploy.

4. Cloud & Edge Computing Integration

- a. The shift to hybrid cloud and edge-based applications demands a network that can seamlessly support distributed workloads.

5. Security & Compliance

- a. Cybersecurity threats and compliance requirements requires secure data transmission across a globally distributed network.

Graphiant's Manufacturing Solutions

1. Seamless Multi-Location Solutions

- a. Flexible Connectivity: Rapidly establish secure connectivity between factories, warehouses, suppliers, and cloud environments. With a core-to-edge network architecture, manufacturers can extend connectivity to remote locations effortlessly.

2. Scalable IoT and Smart Factory Enablement

- a. Centralized Management: With Graphiant, manufacturers can deploy and scale IIoT solutions without the complexity of traditional WAN setups. Its zero-trust security model ensures that IIoT devices communicate securely, reducing cyber risks while maintaining operational efficiency.

3. Enhanced Security and Compliance

- a. Zero Trust Security Model: Continuously authenticates and verifies all users, devices, and applications to protect sensitive media content.
- b. End-to-End Encryption: Safeguards content during production, post-production, and distribution phases.
- c. Micro-Segmentation: Prevents unauthorized access and isolates traffic between production teams, vendors, and cloud services.

Why Graphiant for Retail?

- With scalability, agility, and a flexible consumption model, manufacturers can achieve operational excellence while reducing costs and complexity. Embrace the future of manufacturing with Graphiant NaaS—a network designed for speed, security, and innovation.

Use Case:

Leveraging NaaS to Simplify Global Networks

Challenge

A global manufacturing company with 84 global sites needed a cost-effective and secure way to simplify its connectivity across sites, IoT devices, and cloud platforms. The existing MPLS-based solution was expensive, slow to scale, and difficult to manage.

Solution

The company adopted Graphiant's Network Edge Service to replace its legacy MPLS connections and establish secure, high-performance connectivity between its global locations, IoT devices, and cloud services

Results

- **Reduced Costs:** The company saw a greater than 60% reduction in networking costs, thanks to the consumption-based pricing and elimination of MPLS circuits.
- **Improved Performance:** Improved performance improving the overall end-user experience.
- **Enhanced Security:** Each location's network was segmented and secured, ensuring that any potential breach would be contained without impacting other locations or systems.

Conclusion

Graphiant Network as a Service (NaaS) is a game-changer for manufacturing enterprises looking to modernize their network infrastructure. By enhancing connectivity, optimizing performance, and strengthening security, Graphiant enables manufacturers to embrace Industry 4.0 with confidence.

For more information or schedule a demonstration, visit <https://graphiant.com/schedule-a-demo>.

[Graphiant Demo](#)