

# Assembling a smarter factory

Streamline operations, reduce overhead and enhance security through digital transformation.

The adoption of the Industrial Internet of Things (IIoT), advanced analytics and other technologies requires a modernized network to keep manufacturing (MFG) operations reliable, efficient and secure.



**900+ successful ransomware attacks were reported in the U.S. industrial sector in 2023.<sup>1</sup>**

New threats require defense in depth with security solutions that protect not only network access, but also connected devices and an increasingly mobile workforce.



**87% of manufacturers believe devices need to become more intelligent and process data at the edge.<sup>2</sup>**

Manual processes and high costs complicate legacy network connections among factories, warehouses and headquarters. A cloud-based network offers better performance management and easier maintenance for resource-constrained IT teams.



**Nearly 80% of MFG executives say they've experienced supply chain problems.<sup>3</sup>**

Advanced analytics backed by high-capacity connections to cloud service providers enable you to optimize shipment schedules and inventory for maximum efficiency.

**3.8M** **Expected shortage of skilled MFG employees between 2024 and 2033.<sup>4</sup>**

IIoT automates more manufacturing processes, quality assurance tasks and preventative maintenance to allow fewer workers do more. Maximizing the benefits of these devices requires reliable, uninterrupted LAN connectivity and an easily scalable modernized network infrastructure.

Learn more about how modernized network solutions from Spectrum Enterprise® can support the technologies that drive efficiency and security in manufacturing.

[Read the executive brief.](#)

1. Christian Vasquez, "[Report: Manufacturing bears the brunt of industrial ransomware.](#)" CyberScoop, February 20, 2024.

2. "[2024 State of IIoT Adoption Report.](#)" Eseye, 2024.

3. Aditya Narayan, Timothy Murphy and Bill Marquard, "[Looking to Make Your Supply Chain More Resilient? Measure It.](#)" Deloitte, August 31, 2023.

4. "[US Manufacturing Could Need as Many as 3.8 Million New Employees by 2033. According to Deloitte and The Manufacturing Institute.](#)" Deloitte, April 3, 2024.