



# Manufacturing OT Services

## Your Foundation for Convergence

### SMART FACTORY STRATEGY

86% of manufacturing executives believe smart factory solutions will be the primary driver of competitiveness in the next five years.<sup>1</sup>

### BUSINESS OUTCOMES

Digitally integrated factories can achieve up to 20% higher revenue compared to traditional facilities.<sup>2</sup>

### AUTOMATION, EDGE COMPUTING, AND INFRASTRUCTURE

75% of manufacturers identified skilled labor shortage as the biggest business challenge, further driving investments in automation, robotics, and augmented workforce solutions.<sup>3</sup>

Manufacturing leaders are under pressure to transform factory operations to be more secure, productive, and aligned with strategic objectives. Aging networks, disconnected control systems, and evolving cybersecurity threats pose significant risks, threatening uptime and the ability to scale. Modernizing operational technology requires investments in robust, converged infrastructure that integrates IT and OT, unlocks data-driven insights, and maintains a strong security posture.

Organizations investing in advanced process automation and manufacturing intelligence position themselves to respond effectively to shifting market demands. Addressing these challenges requires solutions that reduce complexity, enable operational excellence, and provide a secure foundation for digital manufacturing initiatives.

### Our Services

**Modernizing, Expanding, or Building New Facilities:** From cybersecurity and networking to edge computing and ICS / PLC design and implementation, we deliver end-to-end infrastructure services for building, expanding, or modernizing your facility.

**Industrial Assessments:** We evaluate operational technology and industrial infrastructure to identify priorities, address pain points, and flag vulnerabilities with our Manufacturing OT Cybersecurity Assessment, and deliver mitigating recommendations to improve cybersecurity and infrastructure posture to support compliance, insurance, and production uptime.

**Industrial Network and IT / OT Convergence:** Assessment, design, and deployment of converged networks that unify IT and OT systems, enhance security, and enable scalable factory operations.

**Industrial Cybersecurity and Monitoring:** Implementation of industrial DMZs, asset visibility, vulnerability detection, network segmentation, centralized monitoring, and cybersecurity solutions tailored to manufacturing environments.

## ARTIFICIAL INTELLIGENCE

Manufacturers with advanced AI adoption in operations achieve a 10–15% increase in production and 4–5% increase in EBITA.<sup>4</sup>

## CYBERSECURITY

Manufacturing is the #1 most targeted sector for cyberattacks for the third consecutive year, accounting for 25.7% of all ransomware incidents analyzed.<sup>6</sup>

## IT/OT NETWORK CONVERGENCE

81% of manufacturers say aligning IT and OT systems is critical for business success, yet only 35% have achieved “significant” integration.<sup>7</sup>

**Physical Infrastructure and Edge Computing:** Design and deployment of structured cabling, robust edge computing, server virtualization, and infrastructure that powers modern production needs and scalable growth.

**Remote 3rd Party Access:** Improve security posture, gain visibility into tracking and traceability, stay up-to-date on compliance and insurance requirements, reduce 3rd party risks, and simplify infrastructure required to support 3rd party remote access.

**Plant Floor Control and Process Automation:** Advanced control systems, PLC / PAC integration, process automation solutions, HMI / SCADA deployment, and power monitoring to optimize production and reduce downtime.

**Manufacturing Intelligence and Data Integration:** Solutions for contextualizing production data, integrating disparate systems, enabling production reporting, dashboard visualization, and MES connectivity to inform data-driven decisions

**Manufacturing AI Solutions:** CNXN Helix system integration services deliver data orchestration, pipelines, model training, inference, infrastructure, and end-to-end AI lifecycle services. We help you capture an untapped wealth of data to make your organization more optimized and increase productivity, reduce costs, and better support business growth.

### DATA INTEGRATION AND MANUFACTURING INTELLIGENCE

Only 44% of production data is being used effectively by manufacturers, signaling a major opportunity for better use of data integration and manufacturing intelligence.<sup>4</sup> And only 39% of manufacturing executives report their organization can integrate and analyze data from production machines to inform operational improvements.<sup>5</sup>

## Let's Build a Smarter Facility

Discover how Connection Manufacturing can help your organization design and implement secure, intelligent, and resilient factory infrastructure. Engage our team to discuss solutions that drive operational excellence and lay the foundation for your digital transformation journey.



**Contact your Account Team for more information or reach out to one of our experts.**

Business Solutions  
1.800.800.0014

Enterprise Solutions  
1.800.369.1047

[www.connection.com/Manufacturing](http://www.connection.com/Manufacturing)

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4. Rootstock, 2023, State of AI in Manufacturing Survey Results  
5. BCG, 2022, Data Excellence: Transforming Manufacturing and Supply Systems Report  
6. Deloitte, 2025, Smart Manufacturing Survey  
7. IBM, 2025, X-Force 2025 Threat Intelligence Index