



Cisco Connected Factory – Wireless

Turn Your Shop Floor into a Connected Communications Hub

What is the value of having real-time visibility of the entire factory floor? You can respond in real time and resolve equipment issues before they become real problems. Troubleshoot with machinery experts even when they're out on site. Gain flexibility as you change your production lines or adapt to new product rollouts. And collaborate in real time with engineers located across the country to accelerate problem resolution.

Connecting your plant floor to your business systems, supply chains, and production managers can mean the difference between downtime and uptime. Wireless connectivity is an essential component in creating a connected factory. But maintaining consistent, secure Wi-Fi coverage on the factory floor has been a challenge – until now.

Part of the Cisco® Internet of Things (IoT) solution offerings, Cisco Connected Factory – Wireless delivers secure, flexible, connectivity for mobile applications on the plant floor. It makes connecting your machines, databases, and people not only possible, but efficient, helping you achieve greater quality, speed, and cost savings.

How It Works

Factory Wireless is a part of Cisco Connected Factory, a comprehensive portfolio of technologies and services that help you connect factory systems to business applications. Cisco Factory Wireless empowers you to unify your IT and operational technology (OT) networks for smooth connections and data flow between the factory floor and the business office.

Factory Wireless creates a new level of communication flexibility between things, machines, data, and people located across your entire organization. Here's what it enables:

- **Faster project completion** time with use of wireless equipment such as wireless torque tools wherever they're needed
- **Plant and control room mobility** so managers and workers can troubleshoot from anywhere, at any time
- **Support of industrial global applications** ranging from automated guided vehicles (AGVs) with plantwide nomadic roaming to Wi-Fi asset tags that deliver fast access to production assets and inventory; mobile HD video cameras enable more effective troubleshooting
- **Secure worker mobility** with IP phones and smartphones to access information and collaborate securely with other workers and partners internally or externally

Benefits

- **Accelerate decision making and increase uptime** by connecting machines and people located throughout the plant.
- **Increase productivity** by tracking assets wirelessly and enabling use of wireless tools.
- **Reduce IT operational costs and complexity** with a unified, easy-to-manage, and secure wireless infrastructure.
- **Increase visibility** into production processes to increase uptime and improve troubleshooting.
- **Adapt to changing market conditions quickly** using real-time network intelligence.
- **Create a secure factory** with end-to-end security built into the network, providing multiple layers of protection.

Breakthrough Technology for Manufacturers at All Stages

Factory Wireless offers great benefit to manufacturers, regardless of your level of wireless technology adoption:

- **If you have no wireless technology,** Factory Wireless can be a game changer, delivering more efficient controls, greater flexibility, and higher security.
- **If you have limited wireless capabilities,** you'll find that early technology was not fully mature. Today's wireless technology is much more resilient and secure and fully integrated into a single, unified network approach to reduce operational issues and lower deployment and operation costs.
- **If you are building new or retrofitting existing factories,** Factory Wireless offers prevalidated, tested designs to jumpstart the process.

Cisco Connected Factory – Wireless products include:

- Rockwell Stratix 5100 Series Wireless Access Points (WGB only)
- Cisco Aironet™ 2602e and 3602e Access Points (wireless)
- Cisco 5508 Wireless Controller (for LAN)
- Cisco Industrial Ethernet (IE) 2000 IP67 and 3000 Series Switches

Accelerate Your ROI

Accelerate your transition to a more secure, reliable, connected factory wireless environment with services that help you plan, build, and manage your solution. From strategy through execution, Cisco services help you realize more value from your solution by continually aligning business outcomes to your connected factory business goals. We provide comprehensive consulting services and combine our leading networking expertise with our technology partners' specialized industry expertise to help you get greater value from your business transformation.

The following services cover the complete solution lifecycle:

- Connected factory Architectural Roadmap
- Connected Factory Micro Engagement
- Connected Factory Starter Kit
- Connected Factory Design and Build Service
- Solution Optimization Service
- Product Support Service

Get Started Today

The Connected Factory Starter Kit is a great way to experience and evaluate a limited converged factory wireless architecture in your own facilities. And it makes it easier to quickly deploy an initial production environment to validate your ROI. Once deployed, the starter kit provides a strong foundation for enabling the following Internet of Everything capabilities:

- Converged connectivity
- Comprehensive security
- Location-based services
- Voice and video including Cisco Digital Signage and Remote Expert
- Integrated big data and analytics

Next Steps

For more information about Cisco Connected Factory – Wireless, please visit www.cisco.com/go/factorywireless.