

Cisco Connected Factory – Security

Leading manufacturers are embracing converged IT and operational technology (OT) networks and experiencing major benefits. But security challenges threaten.

- Greater production flexibility
- Global plant-floor visibility
- Faster decision making with mobility

Did you know?

24% Manufacturing was the most targeted business sector in 2013, accounting for 24% of all targeted attacks... (Symantec)

Industrial networks top the list of systems most vulnerable to cyber security issues (McAfee)

More than 1,000 IACS systems were targeted by the Dragonfly espionage malware program in 2014

91% of breaches took just hours or less to perpetrate, yet more than 60% of attacks took months – or even years – to detect

(source: 2013 DBIR)

This considerable gap gives cyber attackers plenty of opportunities to access a manufacturer's trade secrets and sensitive production data

53% of breaches took months or more to contain

53%

What's the impact of security breaches?

Loss of proprietary or confidential information and intellectual property

Sabotage of safety systems

Violation of regulatory requirements

Loss of public confidence ("headline" risks to brand)

Economic loss

Impact on national security

Who is behind these attacks?

Hackers

Global organized crime groups

Dishonest employees

State-sponsored corporate espionage groups

Why are industrial networks vulnerable?

Simple, one-dimensional security
Today's threats are complex and multifaceted

No mechanisms to check authorizations or ensure data integrity and confidentiality

Lack of secure architecture unifying industrial Ethernet and enterprise networks opens plant to online attacks via office (enterprise) networks.

Don't fix it if it's not broken
Plant operators fail to update server or endpoint software for fear of bringing down the system

Benefits of Cisco Connected Factory – Security

Available with:

- Cisco Connected Factory
- or
- Converged Plantwide Ethernet (CPwE), joint Cisco and Rockwell solution

Securely connect silos of things, machines, workflows, databases and people, who are on enterprise networks with those on plant networks. See new patterns and optimize operations and supply chain workflows

Securely Connect

Share

Share intellectual property securely with global employees, partners, and vendor ecosystems, helping scale expert resources

Reduce risk because your operating system is current and software patch deployments are always up-to-date

Reduce Risk

Safety

Minimize operational risk to plant equipment and employee safety

Protect intellectual property

Protect

Adhere

Adhere to regulatory requirements

Want to learn more?

www.cisco.com/go/connectedfactory



TOMORROW starts here.