

Building a Secure Network with Industrial Switches



Overview

Industrial Layer 2 Managed Switches or Layer 2+ Switches are designed to operate at extreme temperatures up to -40 to 75°C (-40 to 167°F) and in areas with electromagnetic interference, allowing for the creation of cost-effective, reliable, and secure networks. Cisco Cyber Vision is a software feature built in to switches and routers to transform the network into a sensor to automatically discover all connected OT assets, map their communication flows, and identify vulnerabilities. This provides a clear, real-time view of your entire OT environment. Barry Turner is a Technical Business Development Manager at HMS Networks, focused on industrial Ethernet and cybersecurity. He helps teams in factory automation, oil & gas, and water/wastewater align their network strategies with ISA/IEC 62443 standards. Barry brings practical insight into. Webex spaces will be moderated by the speaker until February 28, 2025. Threats, ensuring the Ability to Detect both IT and OT malware within the Industrial environment. of IACS system Assets with details per Asset. These switches come in two types, managed and unmanaged offer Gigabit, and PoE capabilities with various industry certifications. With over 35 years of expertise in industrial automation, Moxa is proud to be one of the first companies globally to achieve both IEC 62443-4-1 certification for our secure development life-cycle (SDL) and IEC 62443-4-2 certification for a range of our networking products.

Article Content

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Networking and Security in Industrial Automation

The solution provides a proven and validated blueprint for connecting Industrial Automation and Control Systems (IACS) and production assets,

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Building secure, scalable and resilient industrial

Industrial networks are changing, adapting and evolving. Driven by trends like IT/OT convergence, the Industrial Internet of Things (IIoT) and Industry 4.0, this shift

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Products

Learn how industrial network equipment can be used to enable a full range of advanced security capabilities to protect your operations and bring simplicity, ease of deployment, and cost

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3 keys to designing & configuring secure networks

Secure device configuration: With today's converged networks, proper configuration of industrial network devices is becoming more complex, and security features

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Industrial Plant Network Security with Cisco Secure Firewalls

Enterprise networks have been securing their network infrastructure for years, and IT teams can increment their security posture by building on the foundation of what has come before. When

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How to Design and Configure Secure Industrial Networks

From a practical standpoint, it is rapidly becoming a requirement to design for reliable secure remote access. Secure device configuration: With today's converged networks, proper

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How to pick the right Industrial Ethernet Switch for

Industrial Ethernet switches are comprised of managed and unmanaged switches with Gigabit, PoE, and various industry certifications. Featured industrial-grade

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Building industrial networks that are secure by design

As manufacturers digitize the plant floor, advanced industrial networking and security are more important than ever. Cisco and its operational technology

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Belden Europe

The ICS Security Guide to Hirschmann Switches, based on a model by TÜV SÜD Rail, provides 128 pages of practical explanations of how to determine security requirements for industrial networks,

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Checklist to Secure Your Industrial Network

In today's digital age, securing your industrial network is more critical than ever. Asset owners and industrial operators need robust digital products to build secure

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Understanding the Role of an Industrial Network Switch

The pivotal part of these robust systems is the industrial network switch, which guarantees smooth communication between various devices,

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Steps to Secure Industrial Networks

Improving the cyber security of industrial networks is a challenge you may be facing. On the one hand your manufacturing processes probably use

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Securing Industrial Networks

Protect from both Known and Unknown Malware. Limit Network Traffic and Network Path leveraged to get to Critical Industrial Systems. decoding industrial protocol traffic. Dynamically builds an inventory

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Networking and Security in Industrial Automation

Figure 3 Industrial Automation Reference Architecture Cross-Industry Applicability
This Industrial Automation solution encompasses networking,

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Enhancing Network Security with FS Industrial Switches

How can organizations safeguard their critical infrastructure while ensuring seamless industrial network communication? This is where industrial

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Industrial Network Security | Moxa

We recognize your need for improved network uptime and reduced security risks. Trust our secure networking solutions—switches, routers, firewalls, and network

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Collaborative protection of industrial switches and industrial network ...

For people who need to use network applications, a deep understanding of these collaborative protection mechanisms will help build a more secure and reliable industrial network environment.

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Harness the Power of Networking to Secure Industrial Operations

In all industries, organizations are accelerating digitization of their operations infrastructures and upgrading their networks to connect more assets and support more traffic. Rather than relying on the

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Harness the Power of Networking to Secure Industrial Operations

This white paper explains how modern industrial network equipment can embed a full range of advanced security applications to build a converged architecture that will bring simplicity, ease of deployment,

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5 Ways Ethernet Switches Build Compliant Industrial

Join our webinar to learn about purpose-built ISA/IEC 62443-compliant networks in demanding environments.

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5 Steps to Building Resilient Industrial Networks

Securing complex industrial environments can seem overwhelming. However, by adopting a structured, step-by-step approach, you can build a strong

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How to pick the right Industrial Ethernet Switch for

Featured industrial-grade reliability, network redundancy, strengthened security, and easy management give you the flexibility to build powerful and secure networks in

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Industrial Network Switches | Industrial Ethernet

Industrial network switches operate in rugged environments & high temperatures. Use our trusted hardened ethernet switches to strengthen network security.

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A quick guide to industrial network security

Build Network Infrastructure with Security in Mind When building a network for an Industrial Control System (ICS), the design should incorporate in

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AweSeed SD-WAN Global Solutions

Secure virtual private network (VPN) & networking solutions by AweSeed. Deploy industry routers for seamless virtual network, remote access to devices, video

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How to Design and Configure Secure Industrial Networks

Once you have a well-designed network architecture, you need to make sure that the switches and other network devices are configured to match your security requirements.

Contact Us

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