SIEMENS

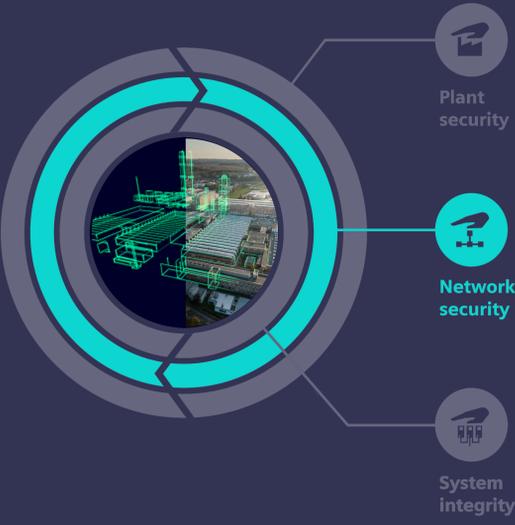# Network security

Stay connected and protected –
securely manage IT/OT integration.
siemens.com/cybersecurity-industry

Plant
security

**Network
security**

System
integrity

What it is

Network security is the state where the network infrastructure, data, and applications are reliably protected from any misuse, unauthorized access, or theft.

Why it matters

In addition to availability, protecting automation networks against unauthorized access is a top priority. This includes monitoring all interfaces – e.g., those between office and plant networks or remote maintenance access to the Internet.

**00:48
minutes**

... is the **average time for hackers** between breaking into a network and moving across it (2024)[1].

**$4.88
million**

... is the **average cost** of an **industrial cybersecurity breach**, a 10% increase from 2023 to 2024[2].

70%

... of **vulnerabilities** reside deep in the **OT network** (2024)[3].

[1] https://go.crowdstrike.com/rs/281-OBQ-266/images/CrowdStrikeGlobalThreatReport2025.pdf?version=0
[2] https://www.ibm.com/reports/data-breach
[3] https://hub.dragos.com/hubfs/312-Year-in-Review/2025/Dragos_2025_OT_Cybersecurity_Global_Action_Guide.pdf?hsLang=en

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What network security means for your company

Isolate and limit.
Network segmentation in combination with Zero Trust, firewalls and perimeter-based networks helps you limit the spread of potential threats.

IT

OT

Connect with confidence.
Secure remote connections help you perform a wide range of tasks from outside – from remote machine configuration and control to remote monitoring.

Control what comes in.
Continuous security monitoring, anomaly-based intrusion detection and attack detection help you monitor and control network traffic.
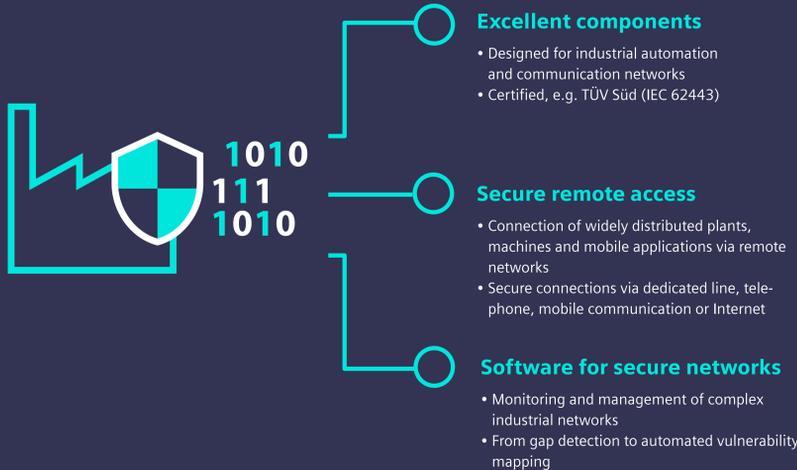
How you benefit

Efficiency:
Make remote access secure and reliable – enhance operational efficiency.

Risks:
Protect your network and assets against unauthorized access and cyber attacks.

Connectivity:
Improve your control over network communications and data flow.

From goals to action.

How we support you

We help you protect your network and industrial communication through network access protection, network segmentation and encrypted communication.

Excellent components
• Designed for industrial automation and communication networks
• Certified, e.g. TÜV Süd (IEC 62443)

Secure remote access
• Connection of widely distributed plants, machines and mobile applications via remote networks
• Secure connections via dedicated line, telephone, mobile communication or Internet

Software for secure networks
• Monitoring and management of complex industrial networks
• From gap detection to automated vulnerability mapping

Did you know …

... that companies and governments use **penetration tests** to challenge their manufacturing plants and infrastructure?

In a test of North American electrical power plants, some **vulnerabilities** detected still hadn't been fixed after three years[4].

[4] https://www.embedded.com/a-quick-guide-to-industrial-network-security/

BTW

By the way, plant security is one of the building blocks of Siemens' "Defense in Depth" concept, aimed at simultaneous protection of all plant levels:

Plant security

Network security

System integrity

**Plant
security**

**Network
security**

**System
integrity**