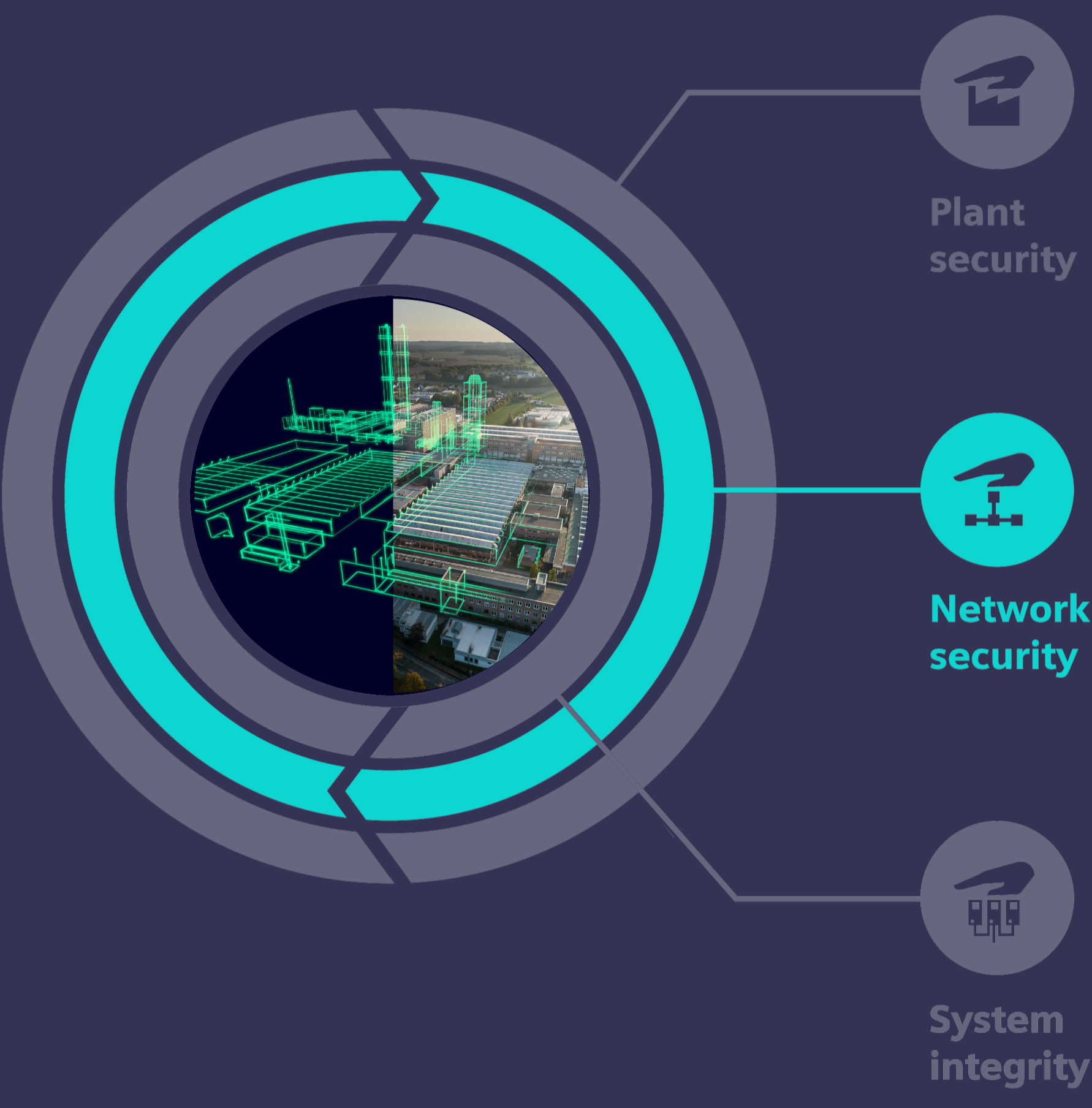


Network security

Stay connected and protected – securely manage IT/OT integration in pharmaceutical production.
[siemens.com/cybersecurity-industry](https://www.siemens.com/cybersecurity-industry)



NETWORK SECURITY



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 pharmaceutical production, protecting automation networks against unauthorized access is critical to ensure product integrity, patient safety and regulatory compliance (e.g., GMP, FDA, EMA).

191

...ransomware attacks against healthcare businesses (including pharmaceutical and medical manufacturers, tech service providers) – +25% vs. 2024.¹

\$5 million

... average cost per healthcare ransomware incident (across all industries but heavily concentrated in healthcare).²

76%

...of pharmaceutical companies report at least one cyberattack in recent years (including OT/ICS risks).³

¹ https://www.comparitech.com/news/healthcare-ransomware-roundup-2025-stats-on-attacks-ransoms-and-data-breaches/?utm_source=chatgpt.com
² https://zgsdo.co/healthcare-cybersecurity-statistics/?utm_source=chatgpt.com
³ https://preesstechnology.wiley.com/doi/press/berichter/Pharma-Industrie-im-Vision-der-Hacker-3-Tipps-zur-Pruefung/?utm_source=chatgpt.com

NETWORK SECURITY

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.



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 pharmaceutical production assets, batch data and intellectual property against unauthorized access and cyber attacks.



Connectivity:

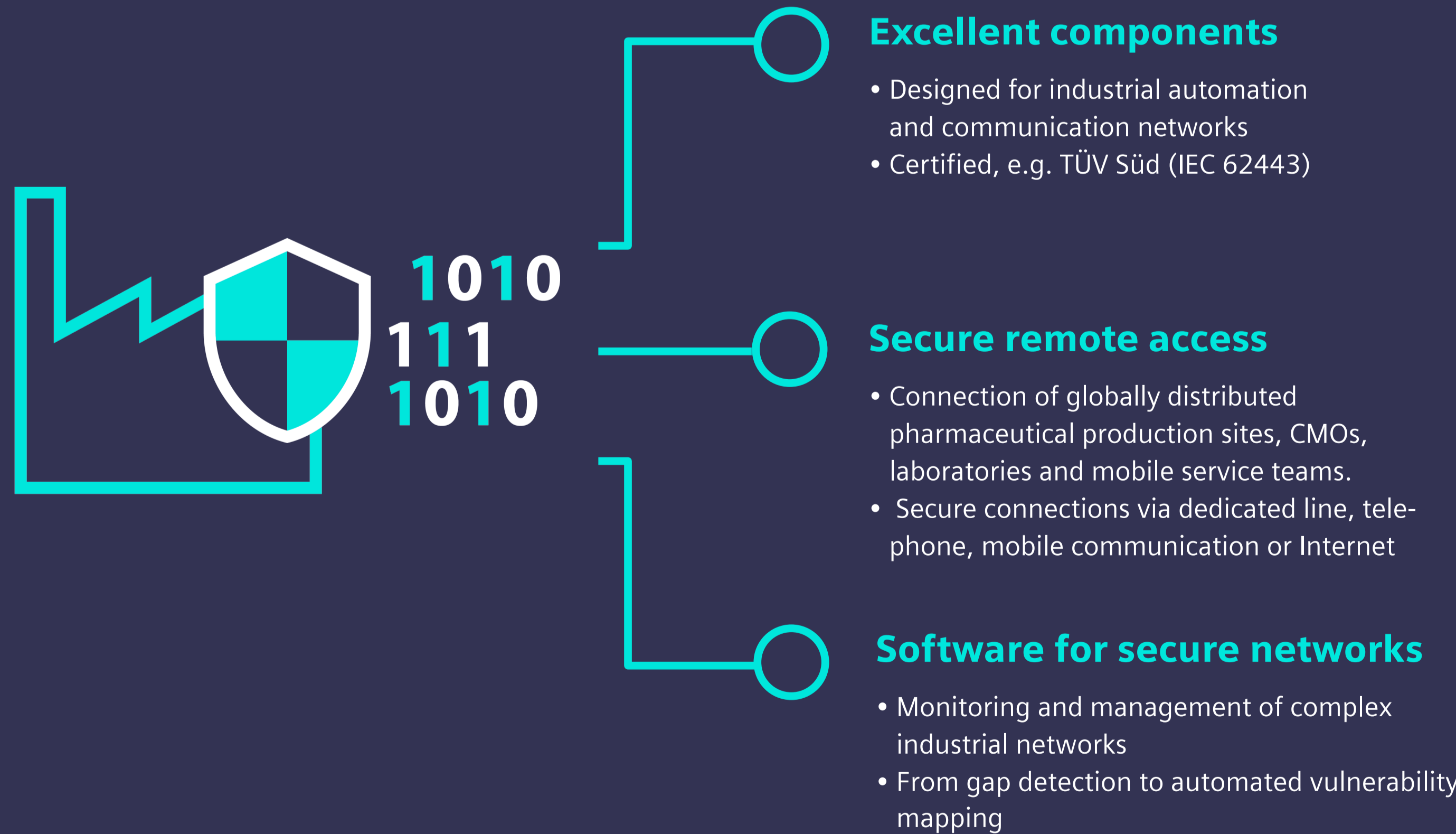
Control what enters validated production environments – from vendor access to data interfaces between IT and OT.

NETWORK SECURITY

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.



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 years⁴.

⁴ <https://www.embedded.com/quick-guide-to-industrial-network-security/>

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

