Checklist for Industrial Cybersecurity

Moxa has compiled a checklist to ensure you do not forget any of the defense-in-depth security measures.

Secure Devices

- [ ] **Identify and control who can log in to devices**
- [ ] **Increase password complexity** to enhance access control
- [ ] **Verify authorized devices** before the devices gain access to the network and communicate with other devices
- [ ] **Encrypt confidential serial interface data** to ensure data integrity
- [ ] **Encrypt configuration data** to increase confidentiality
- [ ] **Select device vendors** that **respond quickly** to reported vulnerabilities and **fix them**
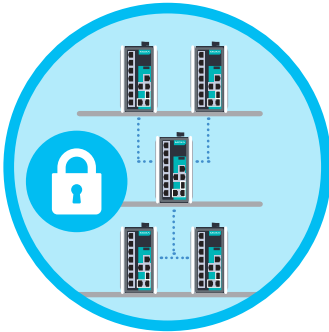
Secure Network Infrastructure

- [ ] **Segment large-scale networks** into smaller networks to avoid networking issues interrupting operations or bringing the entire network to a halt
- [ ] **Filter out unauthorized packets and block unauthorized access** to enhance access control
- [ ] **Create a secure tunnel for encrypted data transmission** to ensure data integrity
- [ ] **Deploy industrial firewalls, VLAN or ACL**, which are the most feasible and **cost-effective options** for industrial control systems

Security Management

- [ ] **Create security policies** that meet your network requirements
- [ ] **Ensure all network devices** are configured to **the same security level**
- [ ] **Continuously scan the security status of devices** to ensure the whole network is secure
- [ ] **Regularly monitor the network to see** if any new devices were added
- [ ] **Save all event logs** for reference in the event of a security breach
- [ ] **Compare the network configurations** before and after incidents to find the root cause of the problem

For more detailed information about Moxa's industrial cybersecurity solutions, please download
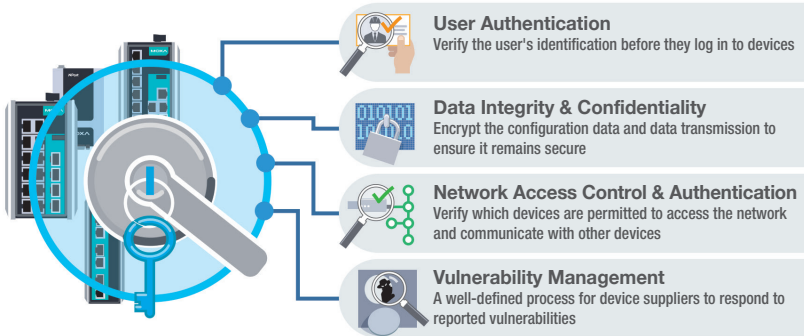
Case Studies About Enhancing Industrial Cybersecurity

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Defense-in-Depth Solutions for Industrial Cybersecurity

Moxa has developed industrial cybersecurity solutions based on the defense-in-depth approach that keep your your industrial networks secure.

Secure Devices

Your industrial control networks need secure devices with enhanced security functions to mitigate risks.
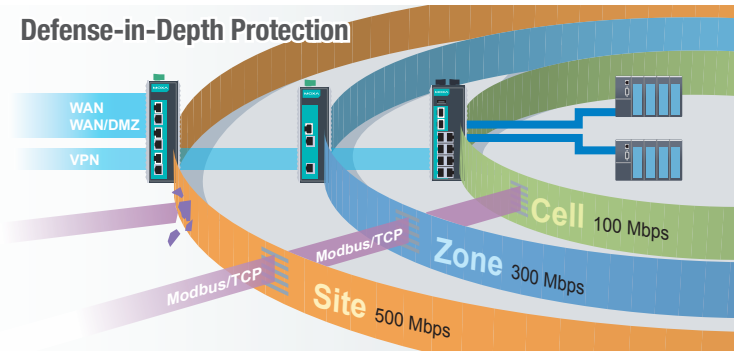
Prevent Intrusions and Attacks

User Authentication
Verify the user's identification before they log in to devices

Data Integrity & Confidentiality
Encrypt the configuration data and data transmission to ensure it remains secure

Network Access Control & Authentication
Verify which devices are permitted to access the network and communicate with other devices

Vulnerability Management
A well-defined process for device suppliers to respond to reported vulnerabilities

**EDS-510E Series**
Industrial Managed Ethernet Switches

NPort 6000 Series
Secure Terminal Servers

Secure Network Infrastructure

You need industrial-grade networking devices with enhanced security features and an industrial firewall for highly reliable, non-stop operations.

EDR-810/G902/G903 Series
Industrial Secure Routers

Defense-in-Depth Protection

WAN
WAN/DMZ
VPN

Cell 100 Mbps
Modbus/TCP
Zone 300 Mbps
Modbus/TCP
Site 500 Mbps

Security Management

To view your network security status at a glance you need network management software.
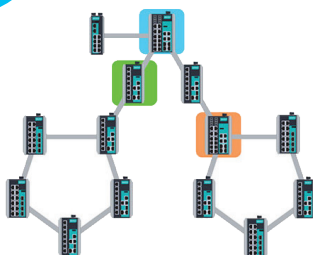
IP	Level	
192.168.127.1	High	IEC-62443-4-2 LV2
192.168.127.2		
192.168.127.3	Medium	IEC-62443-4-2 LV1
192.168.127.4		
192.168.127.5	Basic	General baseline
192.168.127.6		
192.168.127.7		
192.168.127.8		

Security View

MXview
Industrial Network Management Software

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