MOXA®

Cybersecurity for Serial Connected Networking Devices

IT Level of Security, Purpose Built for OT Networks

Secure Device Servers – NPort 6000 Series

- Secure data encryption of serial data over Ethernet – helps to protect sensitive data & helps to address data compliance protection in some vertical industry segments
- Device management security features to help prevent unauthorized access to the device – helps to prevent unauthorized changes to the device and consequently helps to protect and maintain your operations
- Management support in MXStudio: MXView and MXConfig

Secure Protocol Gateways – MGate 3000/5000

- Convert different industrial protocols, such as Modbus RTU, Modbus TCP, EtherNet/IP, DF1 Profinet, Profibus, DNP3 and CANbus/1939 to CANbus/J1939
- Device management security features to help prevent unauthorized access to the device – helps to prevent unauthorized changes to the device and consequently helps to protect and maintain your operations
- Management support in MXStudio: MXView and MXConfig

Why Moxa?

In OT networks, Ethernet to Serial Device Servers and protocol gateways are common place. Unfortunately, many older serial device servers and protocol gateways do not support any management encryption or data encryption. This makes it an easy target for attacks that can compromise:

- Customer Data
- Intellectual Property
- Industry Compliance (HIPPA, PCI, etc)
- Disruption to Operations
- Create Unnecessary Liability for OEM's

Moxa's NPort 6000 and MGate 3000/5000 Series of products support secure management and data encryption to help protect your OT networks and your data.

Unlock the Full Potential of Your Network

MXStudio is an all-in-one toolset for the installation, operation, maintenance and diagnostic stages of your network's lifecycle.

See for yourself just how quick and easy this solution is – Download it for free!

Learn More

Reach out to us if you have any questions related to your Network Security Journey.

Contact Us

Protect Your Industrial Networks
IT Level of Security, Purpose Built for OT Networks

Every network application is unique depending on the environment, scale, & budget. However, there can be similarities in OT network design best practices across many companies and industries. The following example illustrates how our eco-system of connectivity solutions can transform a factory/plant into something that is Smart, Efficient, and Secure. Here we highlight where typically, our Industrial Device Connectivity solutions can help to secure and enable customer's OT solutions.

Moxa Automation Ecosystem
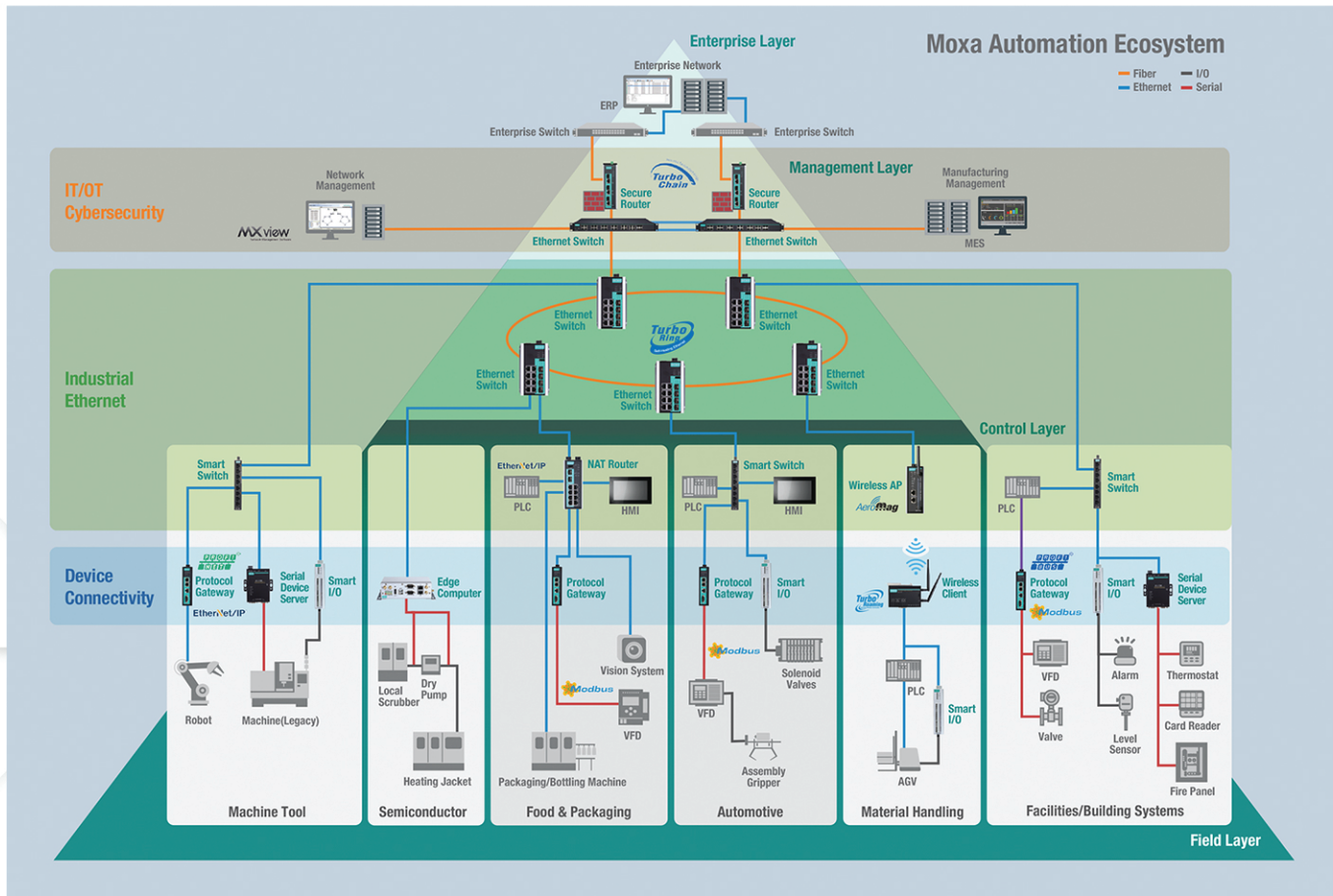
Product Series	MGate Series Protocol Gateways	NPort 5000/5000A Serial Device Servers	NPort 6000 Secure Terminal Servers
Login Authentication	• Password protection (length, character enforcement)	• Password protection (length, character enforcement)	• Password protection (length, character enforcement) • Authentication servers (RADIUS/TACACS+)
Console Management	• HTTPS (at least TLS 1.2) • Unused services can be disabled	• HTTPS (at least TLS 1.2) • Unused services can be disabled	• HTTPS (at least TLS 1.2 with the support of public certificate import) & SSH/SNMPv3 • Unused services can be disabled
Network Access Control	• Access Control List (ACL) • Accessible IP List	• Access Control List (ACL) • Accessible IP List	• Accessible IP List
Timely Event Response	• Syslog • Manageable via MXview Network Management Software	• Syslog • Manageable via MXview Network Management Software	• Syslog • Manageable via MXview Network Management Software
Vulnerability Management	• Quick response product security vulnerabilities • Release product cybersecurity vulnerability detail and solutions • Perform Nessus Scan	• Quick response product security vulnerabilities • Release product cybersecurity vulnerability detail and solutions • Perform Nessus Scan	• Quick response product security vulnerabilities • Release product cybersecurity vulnerability detail and solutions • Perform Nessus Scan

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