OT-native Cybersecurity

Protecting Operational Uptime

MOXA®

Resilient OT Cybersecurity

Protecting Operational Uptime

Modern industrial automation integrates IT and OT using OT data to boost efficiency and productivity. This introduces cyber-security risks that threaten safety and operations. Leveraging over 35 years of experience, Moxa provides OT-native cybersecurity solutions that protect oper-ational uptime while ensuring compliance with industry standards and regulations.
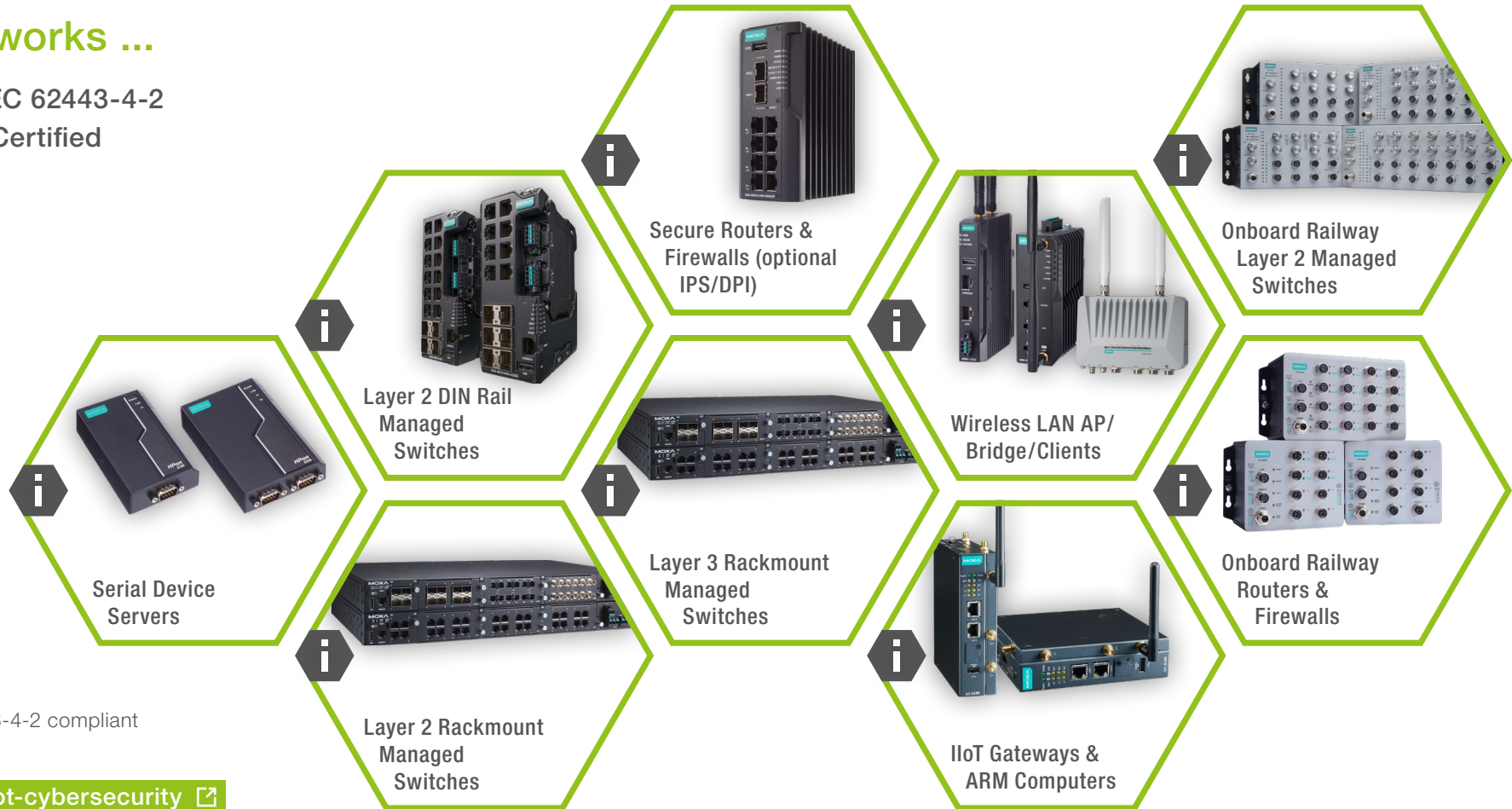
✓ Secure Uptime
✓ OT-Native From Within
✓ Collaborative & Futureproof

Futureproof & Secure Networks
› IEC 62443-4-2 Certified Portfolio (Security Level 2)
› Secure Access Management
› Encryption & Authentication

Intrusion Prevention System
› Malware Protection
› Virtual Patching
› Deep Packet Inspection

Protection & Segmentation

Threat & Defense

IPS

SDL

Reporting & Recovery

Certified Processes

Security at Every Step
› IEC 62443-4-1 certified Development
› Vulnerability Management (PSIRT, CNA)*
› Documentation & Trainings

Management Software
› Asset Management
› Audit Logs
› Backup & Recovery

* Product Security Incident Response Team, CVE Numbering Authoriy

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Futureproof and Secure Networks ...

... With Moxa's IEC 62443-4-2 Security Level 2 Certified Product Portfolio

Secure Routers & Firewalls (optional IPS/DPI)

Onboard Railway Layer 2 Managed Switches

Layer 2 DIN Rail Managed Switches

Wireless LAN AP/ Bridge/Clients

Serial Device Servers

Layer 3 Rackmount Managed Switches

Onboard Railway Routers & Firewalls

Layer 2 Rackmount Managed Switches

IIoT Gateways & ARM Computers

For additional IEC 62443-4-2 compliant products please visit

moxa-europe.com/ot-cybersecurity ↗

Defense-in-depth
Made Practical
with IEC 62443

Security at Every Layer From Device Hardening to Network Management

Management: Visibility and Control

› Gain full visibility into your OT network topology using Moxa's NMS software Mxview One

› Automate devices discovery, inventory provisioning, rogue device detection and unauthorized changes with real-time alerts

› Centralize network monitoring via OT-native tools, Northbound integration with OPC UA, RESTful API, MQTT, or similar

› Improve lifecycle operations with backup, restore, and patch management

Network: Secure Segmentation

› Enforce zones and conduits using routers, NAT, and secure VLANs

› Filter and segment traffic with firewalls and ACLs

› Enable secure remote access via encrypted VPN tunnels

› Deploy advanced threat prevention with IPS/IDS and virtual patching

› Analyze traffic behavior with OT protocol-aware Deep Packet Inspection

Device: Hardening

› Protect endpoints with access and password management policies

› Lock down device entry points with sticky MAC and port security

› Enforce user roles and privilege restrictions at the device level

› Ensure tamper resistance and resilience in harsh industrial environments

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Defense-in-depth Made Practical with IEC 62443

Security at Every Layer From Device Hardening to Network Management

✓ **Visibility & Control**

✓ **Secure Segmentation**

✓ **Device Hardening**

Level 4-5 Office Network

Level 3.5 Industrial DMZ
- Web Server
- Patch Server

Level 3 Industrial Zone
- Anomaly Detection
- MES
- AAA Server
- Historian
- NMS
- Time Server

Level 0-2 Cell/Area Zone

- SCADA Server
- Engineering Work Station

Remote Maintenance

Enterprise

Core (Site Operations)

Distribution (Supervisory)

Edge (Process, Control)

Legend:
- IT Firewalls
- LAN Firewalls
- L2/L3 Rackmount Managed Switches
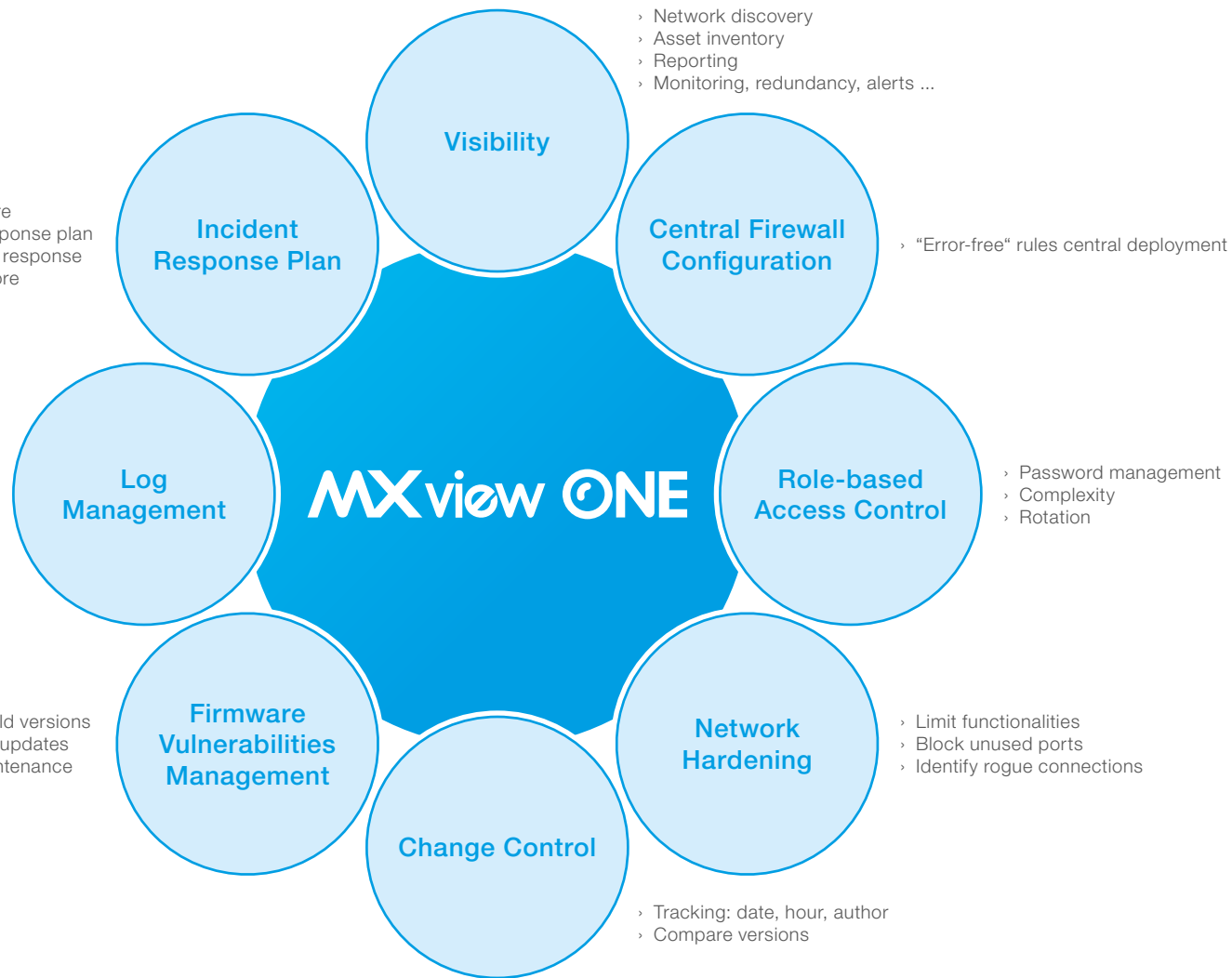- Secure Routers / Firewalls
- DIN Rail Managed Switches
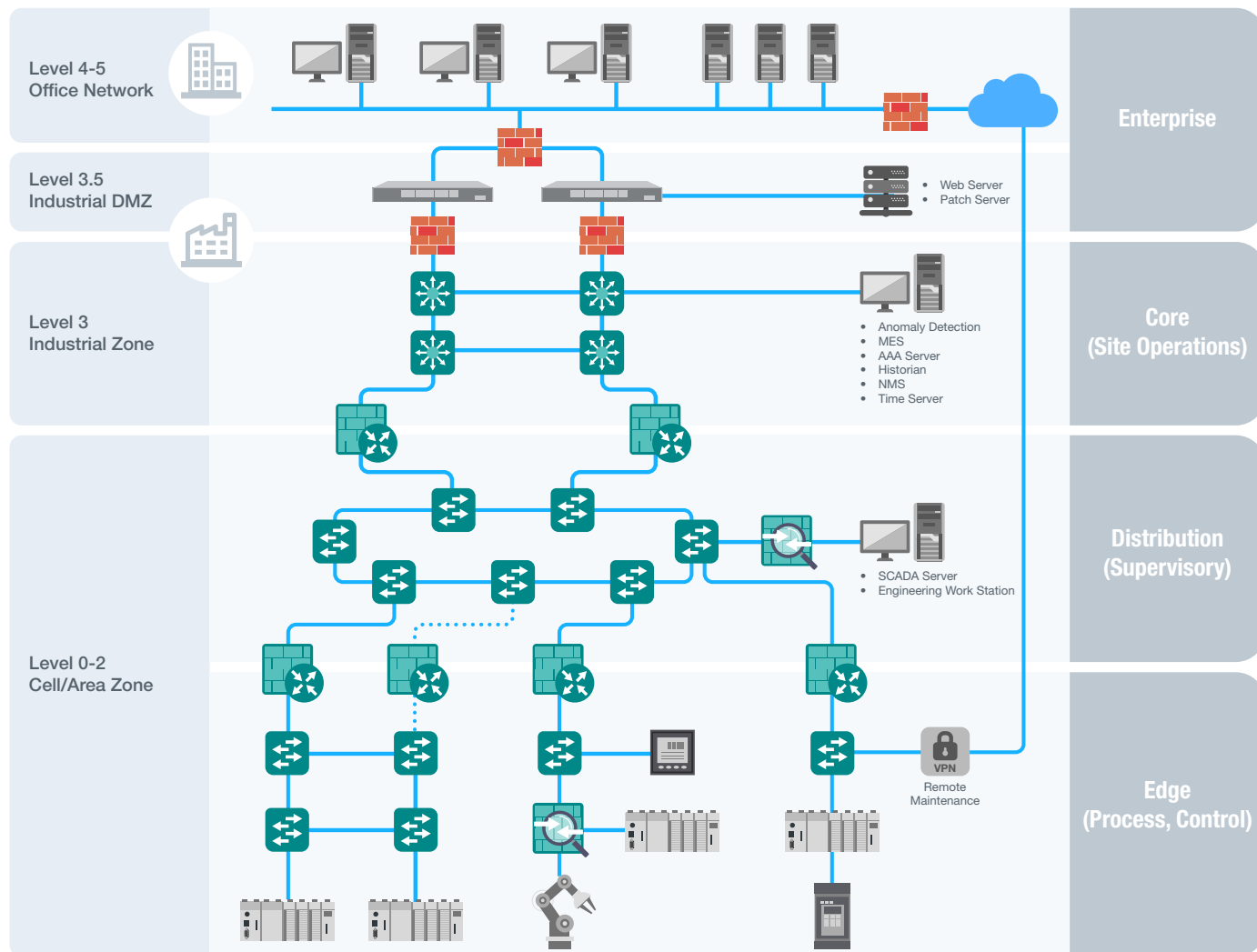
Moxa Management Software Supporting NIS2 Compliance

MXviewOne With Essential Cybersecurity Functions

› Backup and restore
› Script incident response plan
› Rehearse incident response plan and test restore

› Network discovery
› Asset inventory
› Reporting
› Monitoring, redundancy, alerts ...

› "Error-free" rules central deployment

› Collection, consolidation
› Transmission
› Filtering

› Password management
› Complexity
› Rotation

› Identify old versions
› Prioritize updates
› Plan maintenance

› Limit functionalities
› Block unused ports
› Identify rogue connections

› Tracking: date, hour, author
› Compare versions

MXview ONE

- Visibility
- Central Firewall Configuration
- Incident Response Plan
- Role-based Access Control
- Log Management
- Firmware Vulnerabilities Management
- Network Hardening
- Change Control

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What Sets Moxa Apart in OT Security?

- ✓ Built for OT
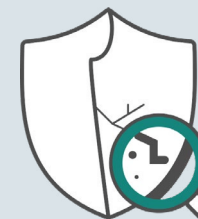- ✓ Certified for Security
- ✓ Trusted for Resilience

OT-Native Cybersecurity

- ✓ **Network Resilience:** Moxa brings decades of experience in building high-availability networks with rugged, certified devices designed for long lifecycles in harsh environments.
- ✓ **OT-focused Security:** Unlike IT-centric companies, Moxa specialize in OT protocols ensuring your industrial systems receive tailored, effective defense.
- ✓ **Made for OT Engineers:** Device and network interfaces are designed for OT engineers, assuring an easy-to-use experience in mission critical situations.

Trusted Vulnerability Management

- ✓ **Authorized CNA:** Moxa is among few OT cybersecurity experts designated as a CVE Numbering Authority authorized to report vulnerabilities to the global MITRE database.
- ✓ **Dedicated PSIRT:** Moxa's Product Security Incident Response Team proactively and transparently manages vulnerabilities to keep your operation protected.
- ✓ **Proactive Protection:** We identify, disclose, and mitigate threats before they can disrupt your operations.

Certified Security Excellence

- ✓ **Industry First:** Moxa launched the first IEC 62443-4-2 certified industrial Ethernet switch according to IECEE.
- ✓ **Security by Design:** New products are developed under an IEC 62443-4-1 certified secure development lifecycle.
- ✓ **Security by Function:** Our expanding range of IEC 62443-4-2 Security Level 2 certified devices demonstrates our commitment to OT cybersecurity.
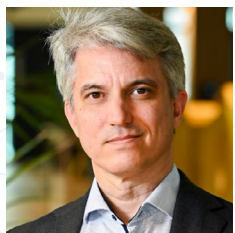
IEC 62443

About OT Cybersecurity by Moxa

✓ OT-native cybersecurity protecting operational uptime

✓ Trusted security vendor, recognized as a CNA

✓ Market leader in the field of IEC 62443-4-2

✓ More than 35 years of experience in operational technology

✓ Global footprint with certified partners

✓ Tailor-made trainings and services available

Reach out to me if you have any questions about OT Cybersecurity.

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Explore our Cybersecurity training offering here!

Manufacturing

Data Center

Oil & Gas

Intelligent Transportation System

Leading the Way in Tailored OT Cybersecurity Across Industries

Maritime

Rail

Utilities

Smart Cities

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