OT SECURITY
FORTIFY YOUR INDUSTRIAL NETWORKS

The future of manufacturing lies in technologies that create a hyperconnected enterprise. This requires a large-scale deployment of intelligent edge devices that are making decisions. As a result, the threat landscape has expanded enormously. Consider the cases below:

A ransomware attack at chip equipment maker MKS Instruments in Massachusetts that targeted their production systems cost the company an estimated USD $200 mn. [1] [2]

A cyberattack on US-based Johnson Controls International compromised its internal data and cost the company nearly USD $27 mn.[3]

Clorox posted a 20% decline in net sales, a USD $356 mn decline that it blamed on Cyberattacks that resulted in slower production rates.[4]

Source: 1. CSOOnline | 2. Dark Reading | 3. IOT World Today | 4. Industry Week

These examples reflect the reality that OT systems are subject to increased security risks. Even as leaders make significant investments in Industry 4.0 initiatives, it is essential to understand the additional technology complexity and cybersecurity risks that might undermine the business visions if not well managed.

OT THREATS AND CHALLENGES FACING ENTERPRISES

There is a wide range of challenges in securing the OT environment. Here are some of the most critical issues.

Insecure connection between OT and IT network

Connected Industrial systems, shodan

Human factor, phishing and social engineering

Access governance

Remote access management challenges

Vendor and supply chain security

Combination of legacy and new-gen system challenges

Compliance and regulatory pressures

Inadequate controls for endpoint

Inadequate policies, procedures

Vulnerable OT software - WinCC / Stuxnet / Protocols

TATA COMMUNICATIONS OT SECURITY PROVIDES THE ANSWERS

Tata Communications' end-to-end OT Security provides comprehensive visibility, robust protection, and precise control for industrial environments.

It minimises business risk and safeguards organisations against cyber threats in the increasingly interconnected OT/IT landscape, ensuring the security and reliability of critical operations.

KEY COMPONENTS OF TATA COMMUNICATIONS OT SECURITY

Service	Coverage
Consulting and assessment	Expert OT security consulting services customised to customers' industry and organisational demands.
Vulnerability and asset management	A scalable enterprise solution that provides network visibility, security, and Compliance in a single package. Enterprises can protect OT environments with real-time information incorporated into assets' operational and security posture.
Data Diode / IT-OT Firewall	A comprehensive firewall solution available in 100 Mbps, 1 Gbps, and 10 Gbps options provides real-time access to the critical OT data needed to make key business decisions.
Secure remote access	OT VPN that controls and manages real-time, granular, secure remote access for employees or third-party vendors to ICS and SCADA devices.
Removable media security / asset scanning	**Asset Scanning** with endpoint protection and across a secure air gap that enables a full HDD 'offline' scan of assets that cannot be directly installed with security solutions. **File transfer scanning** that secures data transfers for supply chain and IT/OT segment transfers.
OT Security Operations Center	Extension of SOC operational model to OT environment and adjustment of the Incident Management processes to OT or development of OT SOC and Incident Management processes from scratch.

TATA COMMUNICATIONS' UNIQUE ADVANTAGE

Tata Communications' OT Security ensures robust, end-to-end protection for industrial operations and assets.

- **Inherent OT network expertise with 30% of global internet routes carried by us.**
- **Proven methodology of design-deploy-manage.**
- **Strong domain skills in manufacturing, energy etc.**
- **Maturity in managing mission critical infrastructure.**
- **Cyber Security Maturity Model with respect to People, Process, Technology and Organisation.**
- **Strong operational know-how and cyber security framework.**
- **Established player in Cyber Security.**
- **Mature end-to-end IoT practice.**
- **Managed OT security services for all organisations – large and small.**

For more information, click here

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