



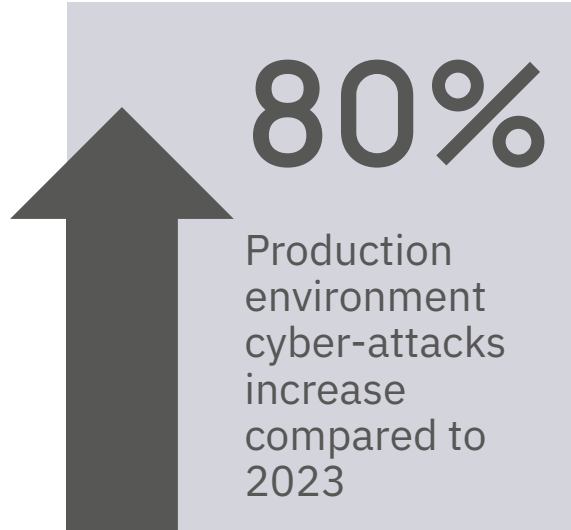
Building a Unified Security Platform for IT & OT

Cybersecurity for IT & OT. Simplified.

The critical infrastructure is under attack



From a Forrester study

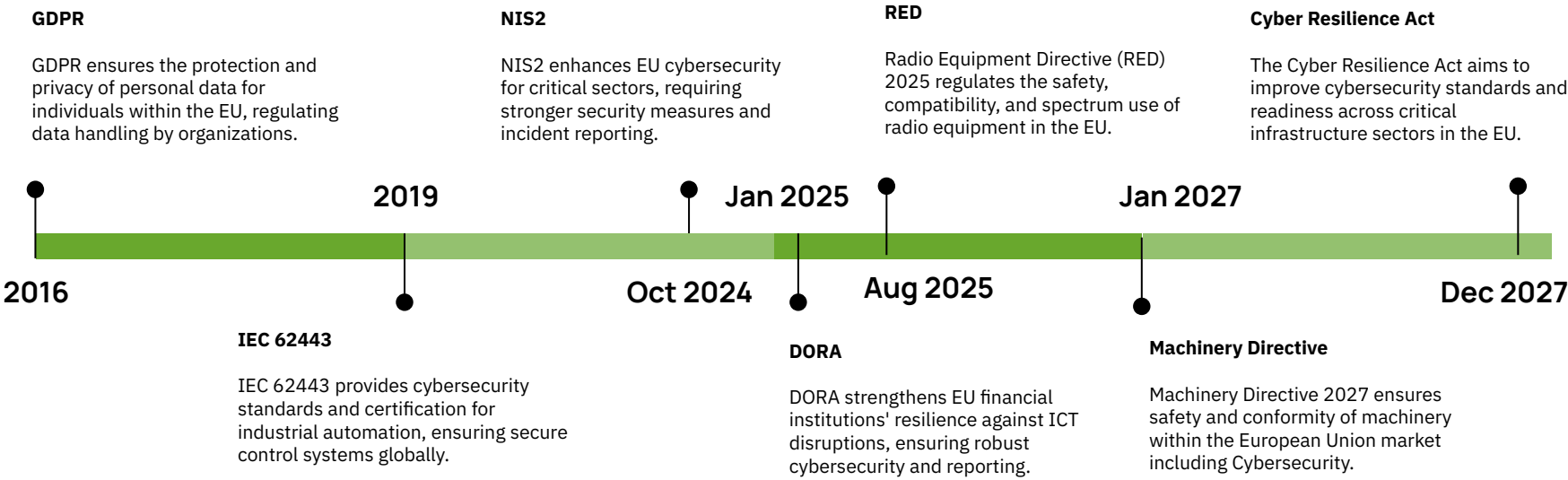


From an IBM study

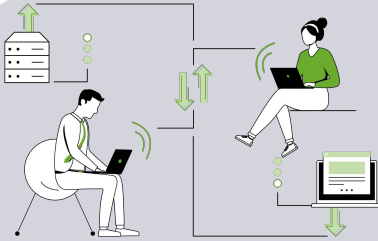


From an IBM study

Cybersecurity Regulation and Compliance

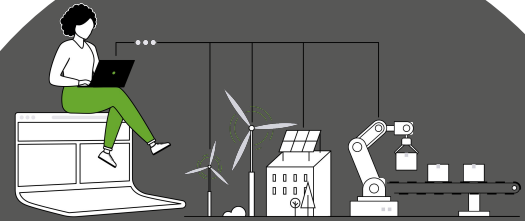


Digital transformation challenges for IT & OT



- Keep Servers & Applications running
- Short Product Life-cycle (< 3-5Y)
- Difficult to find skilled People
- Critical for Business Continuity
- Established Cybersecurity

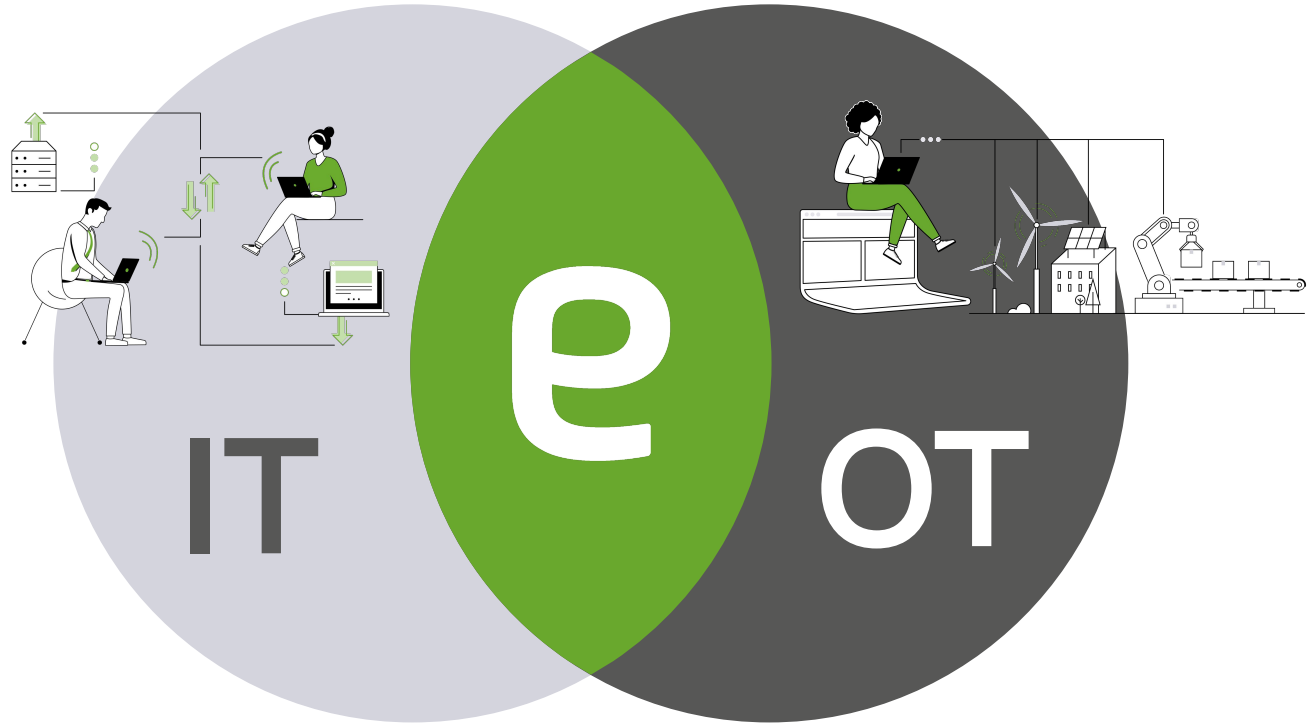
IT



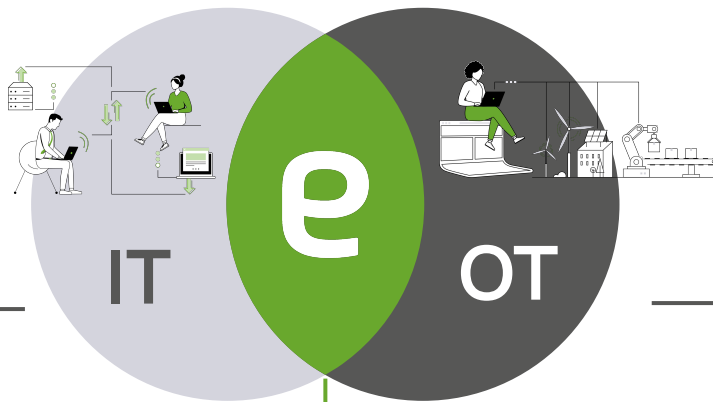
- Keep Machines & Production running
- Long Product Life-cycle (> 5-10Y)
- Difficult to find skilled People
- Critical for Business Continuity
- Lack of Cybersecurity

OT

Unified Cybersecurity Platform for IT & OT



Unified Cybersecurity Platform for IT & OT



- Zero Trust Principles
- Distributed Network Observability
- Third party tools (i.e. SIEM)

- Blends IT & OT
- Protect OT/IoT Assets
- Tailored user experiences

- Secure Remote Access
- Predictive Maintenance & Monitoring
- Compliance with IEC 62443, NIS2, ...

In synergy with our Partners

The Secure Digital Platform

1 - Management Tools

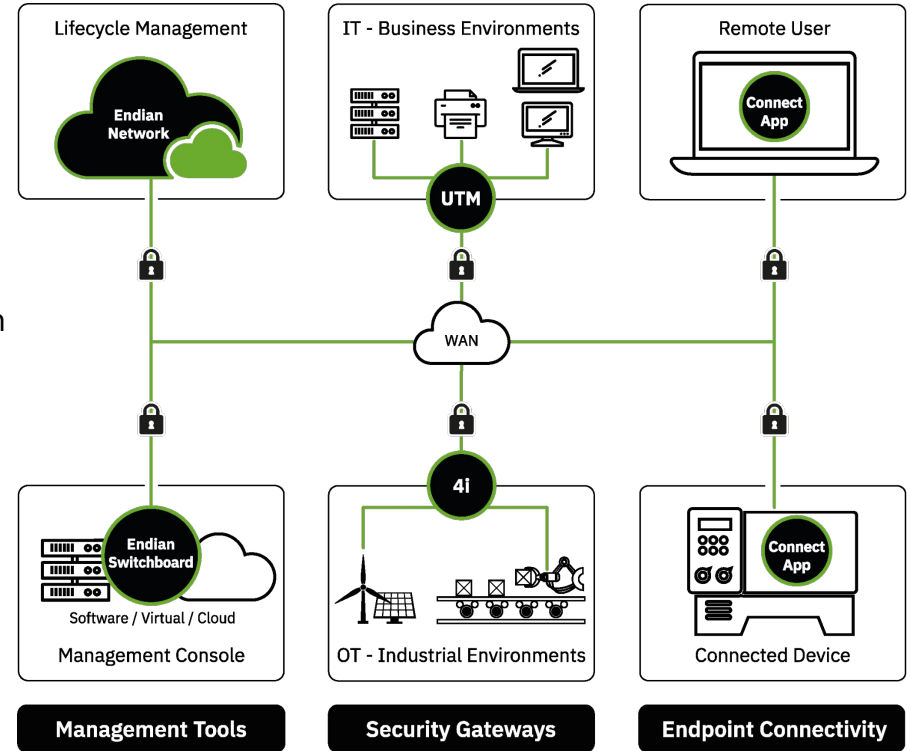
- Administer the whole solution lifecycle
- Manage the components of the Secure Digital Platform

2 - Security Gateways

- Connect and protect the infrastructure
- Enforced security with EndianOS

3 - Endpoint Connectivity

- Access remote endpoints in a secure way
- Provide secure capabilities



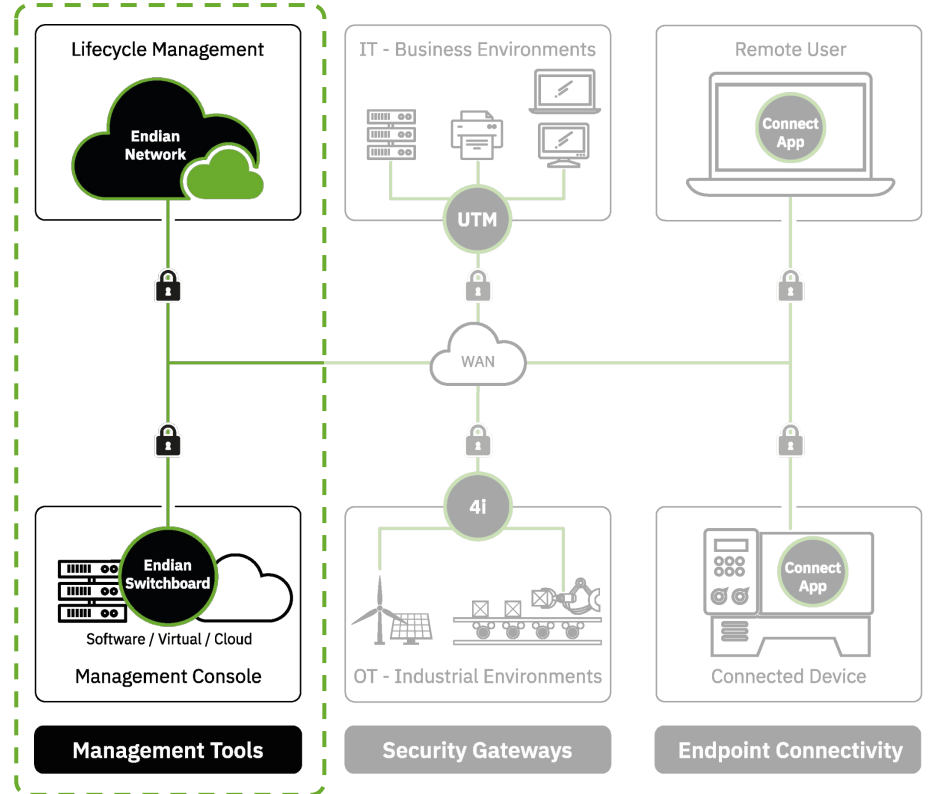
Management Tools

Endian Switchboard

- Centralized Management of Gateways and Devices
- Manage Authorization and Infrastructure
- Monitor Distributed Networks

Endian Network

- Organization & Subscription Management
- Product Lifecycle Management
- Metrics & Business Intelligence



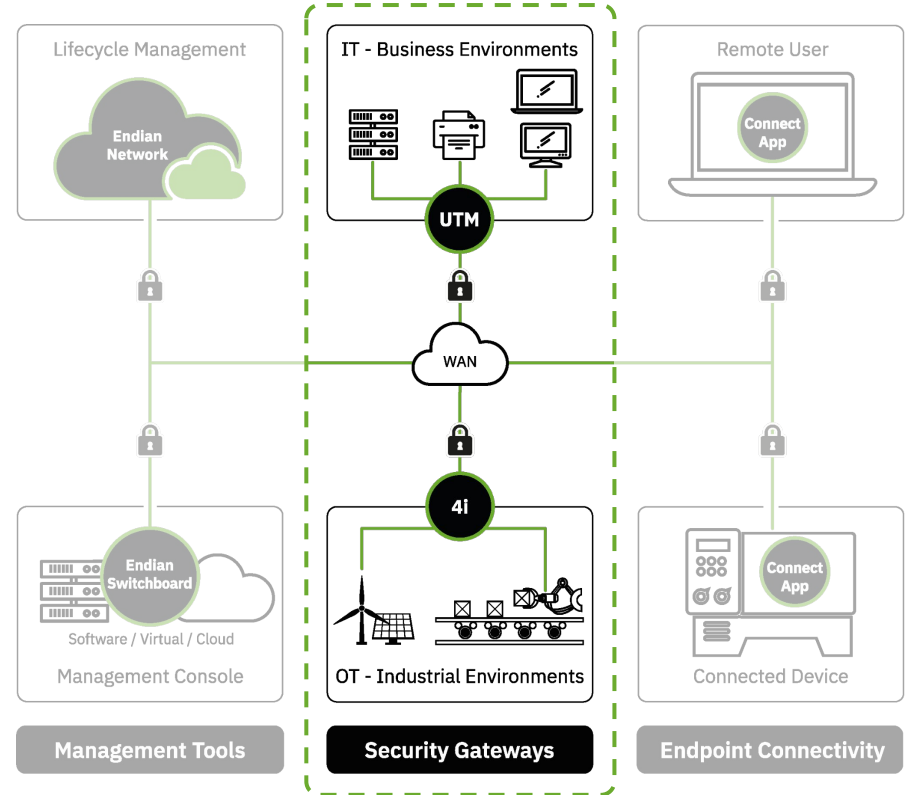
Security Gateways

Endian UTM for IT

- Enforce network security policies with EndianOS
- Optimize network connectivity and performance
- Detects and filter advanced threats

Endian 4i for OT

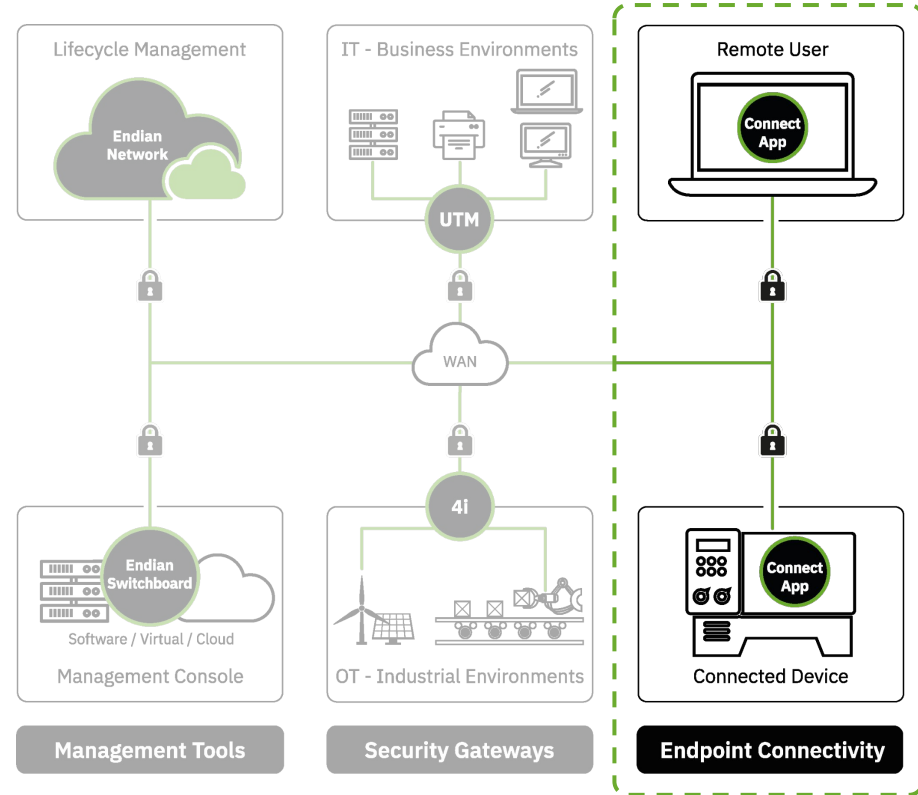
- Protect and monitor OT networks with EndianOS
- IoT/OT protocol connectivity and support
- Reliable connectivity in industrial environments



Endpoint Connectivity

Endian Connect App

- Easy to use client for the Switchboard
- Make Endpoints remotely accessible
- Provide secure capabilities of a VPN client

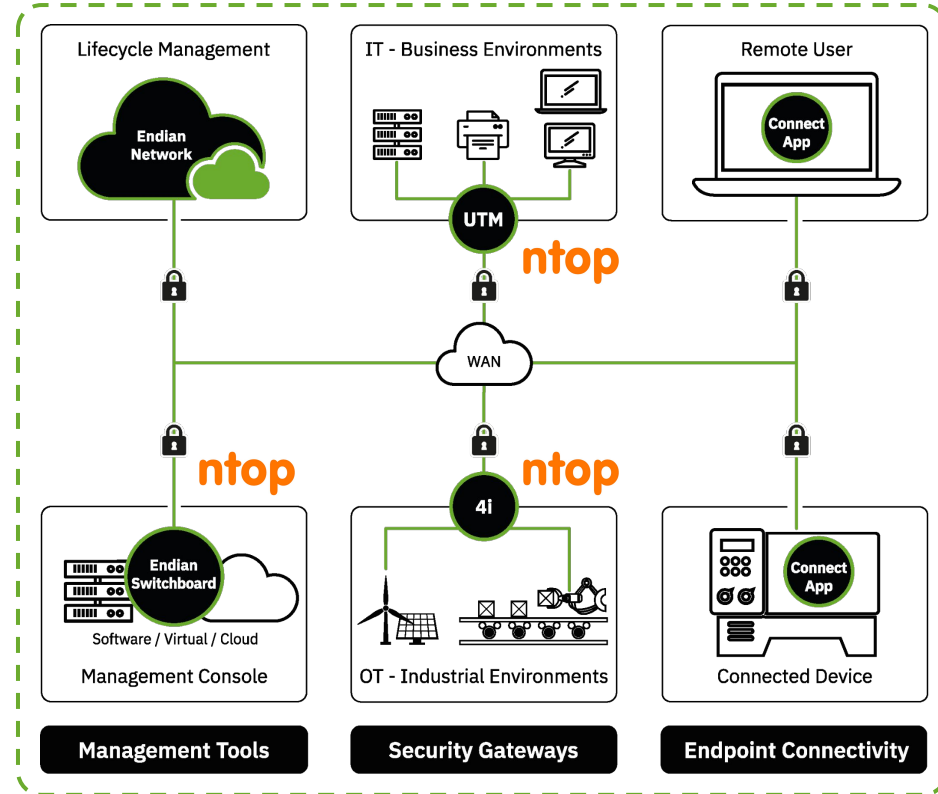


Partner Applications



Build on top of our platform

- Integrate any application via OpenAPIs
- Edge computing powered by Docker
- Integration with external identity providers



What are the Use Cases?

Implement Zero Trust

- Microsegmentation
- IAM & MFA
- Manage CA & Certificates

Secure Remote Access

- Simplify Access to Assets
- Session Approval & Recording
- Least-Privilege Concept

Monitor Networks & Risks **ntop**

- Distributed Asset Discovery
- Risk Assessment
- Anomaly Detection

Prevent Attacks **ntop**

- Firewall with DPI & Routing
- Intrusion Detection/Prevention
- Log/SIEM Integration

Run Edge Applications

- Enable 3rd party Applications
- Easily manage Edge Computing
- Docker running on EndianOS

Manage Devices & Automate

- Automate Lifecycle Management
- Centralize Updates
- Provision Configuration & Certificates

endian

From Visibility to Security: ntop + Endian

How can you secure something you don't understand?

Advantages of ntop

IT & OT Protocol Support

- DPI and metadata extraction
- 400+ IT and 27 OT protocols
- Integration with netfilter/iptables

Asset Discovery

- Device Fingerprinting
- Learns network topology
- Creates a Digital Twin of the network

Risk Analysis and Alerts

- Flow based Risk analysis
- Host Risk score
- Powerful Alerting Engine

Anomaly Detection

- Behavioural based analysis
- Host/Device/Network anomalies
- Powerful due to full visibility

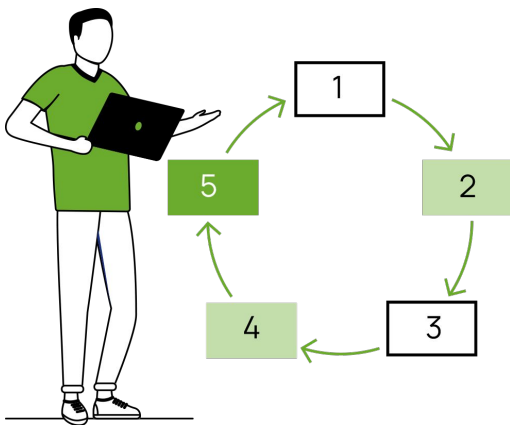
Network History

- Storage of flows in Clickhouse
- Monitor network Quality and Security
- Reporting of trends

Made in Europe

- Open Source
- High Expertise and Skills
- Full control over technology

5 Steps to Secure your IT & OT



Step 1

Assess the assets, topology and communication of your network

Step 2

Design the ideal layout of segments and conduits of your network

Step 3

Secure your network by implementing segmentation, AAA, remote access, observability, IDS/IPS

Step 4

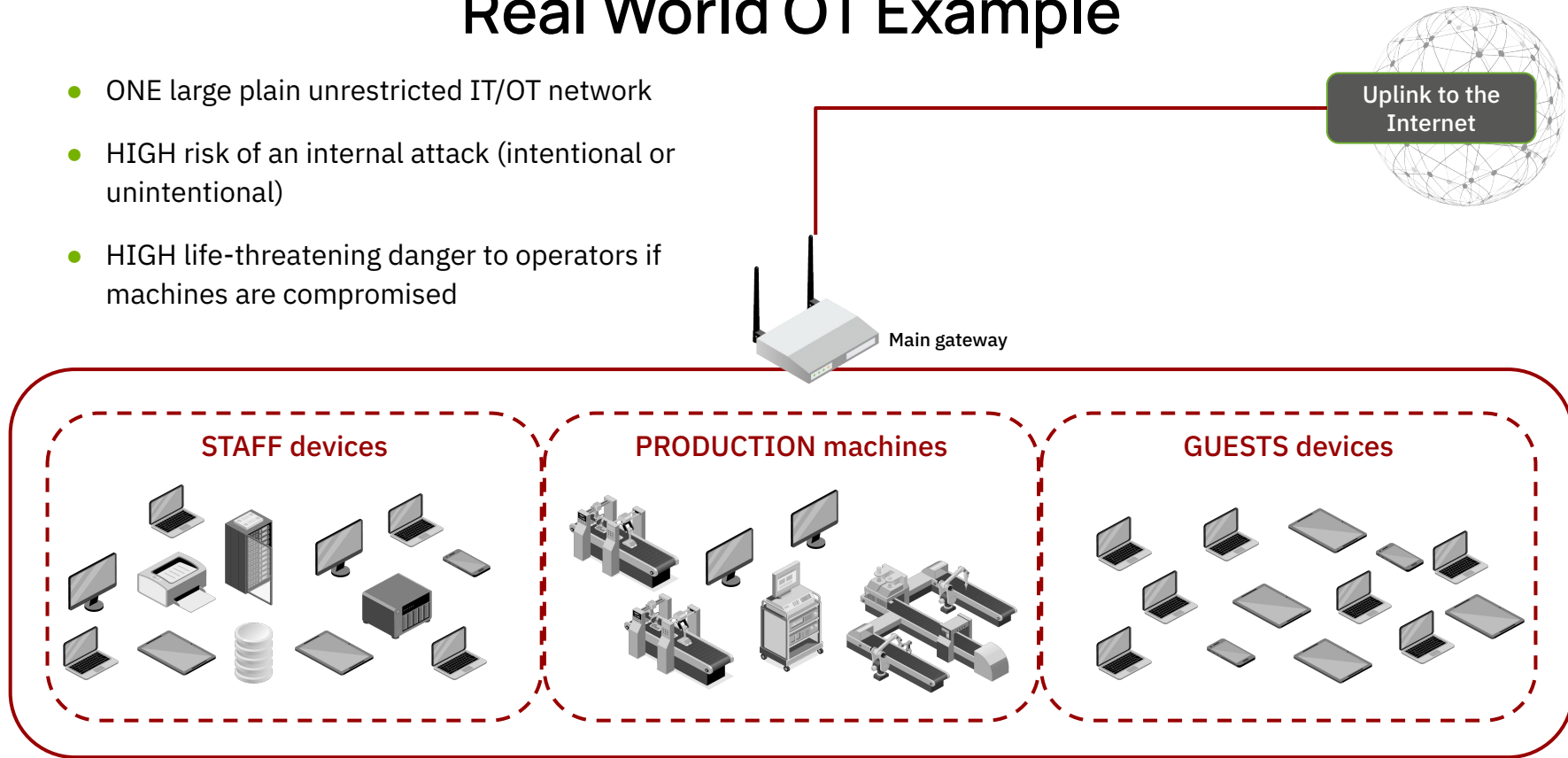
Manage the lifecycle of your network and assets to keep them monitored and secure

Step 5

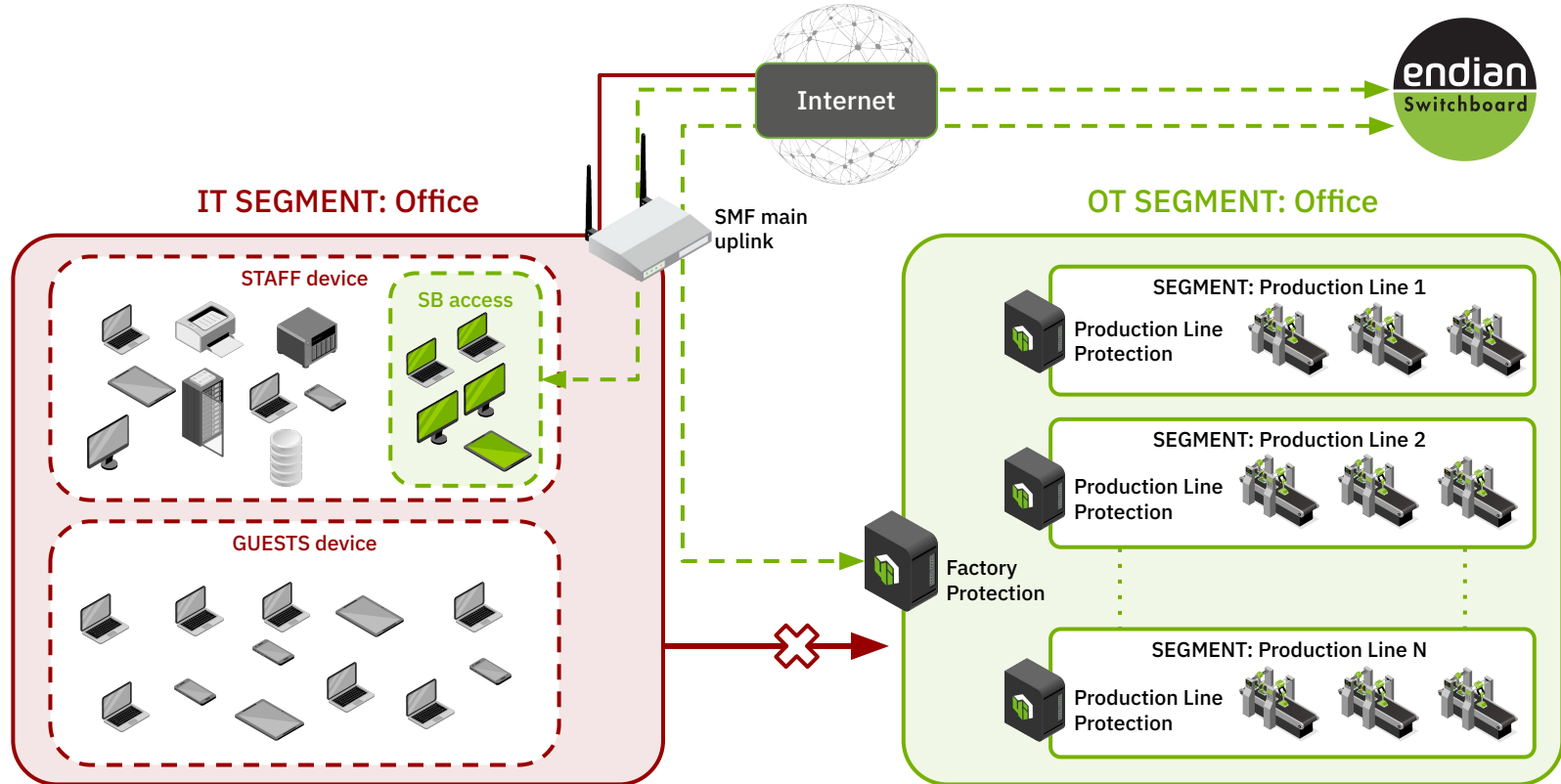
Reach compliance with NIS2, IEC 62443, Cyber Resilience Act and more

Real World OT Example

- ONE large plain unrestricted IT/OT network
- HIGH risk of an internal attack (intentional or unintentional)
- HIGH life-threatening danger to operators if machines are compromised



How we secured the Smart Mini Factory@UNIBZ



Target Groups and Customers

Machine and equipment Manufacturers (OEM)



Manufacturing companies (Smart Factory)



Small and Medium-sized Businesses (IT)



Critical Infrastructure





Worldwide leading supplier of application-critical precision components, mechanical fastening systems and quality tools

+800 gateways on field

+3 bil € revenue

Case study

How Endian delivered an impact

Microsegmentation

Reduce attack surface to increase uptime

Centralized management

Manage all the gateways from a single interface

Secure Remote Access

Access remote endpoints easily

endian

Thanks! :)