



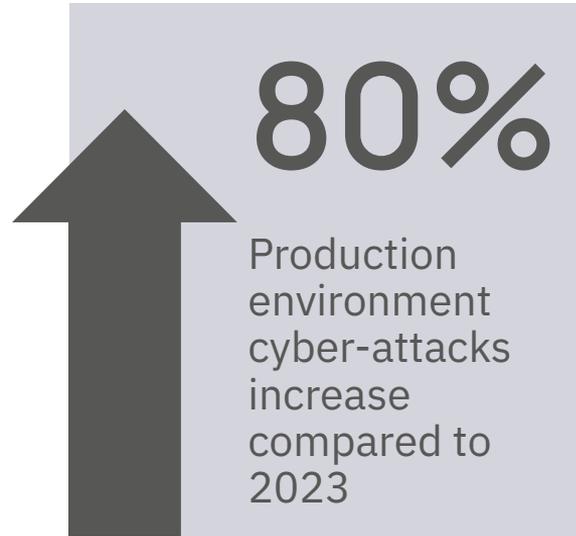
# Building a Unified Security Platform for IT & OT

Cybersecurity for IT & OT. Simplified.

## The critical infrastructure is under attack



From a Forrester study



From an IBM study

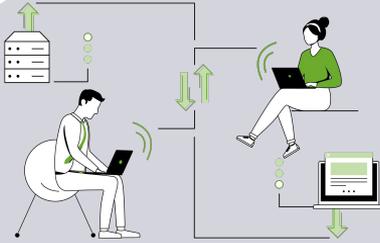


From an IBM study

# Cybersecurity Regulation and Compliance

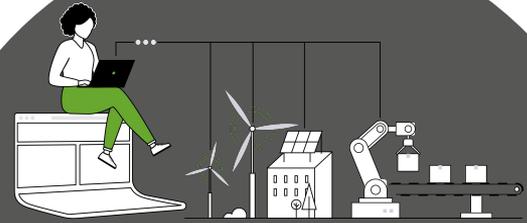


# Digital transformation challenges for IT & OT



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

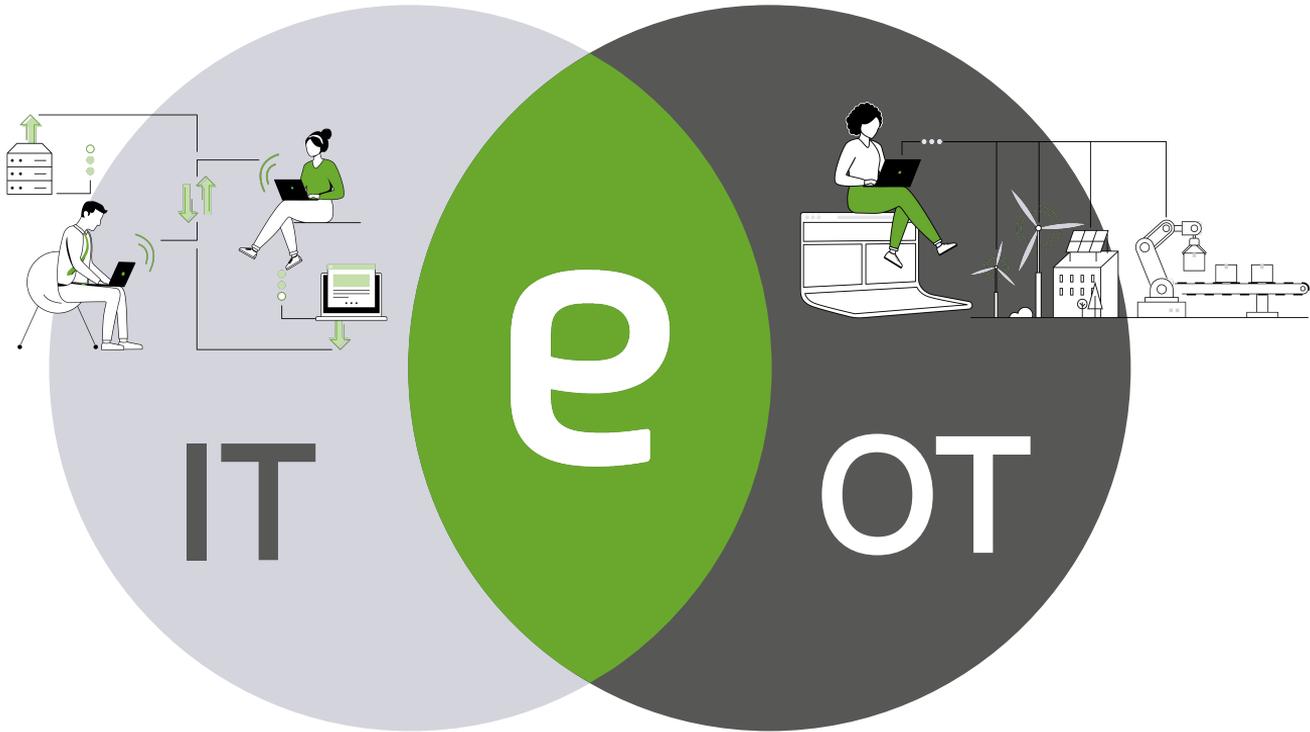
IT



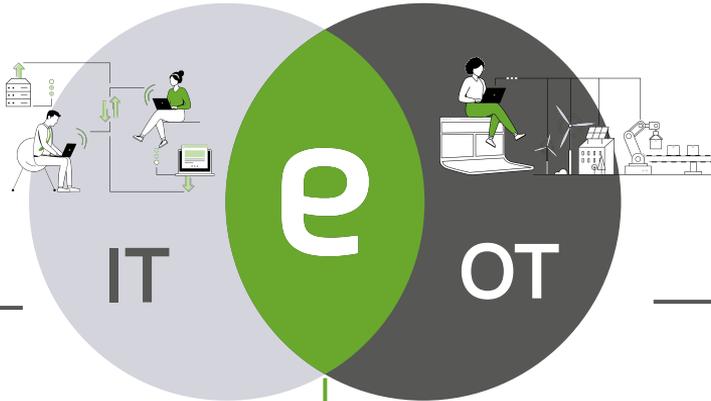
- Keep Machines & Production running
- Long Product Life-cycle (> 5-10Y)
- Difficult to find skilled People
- Critical for Business Continuity
- Lack of Cybersecurity

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

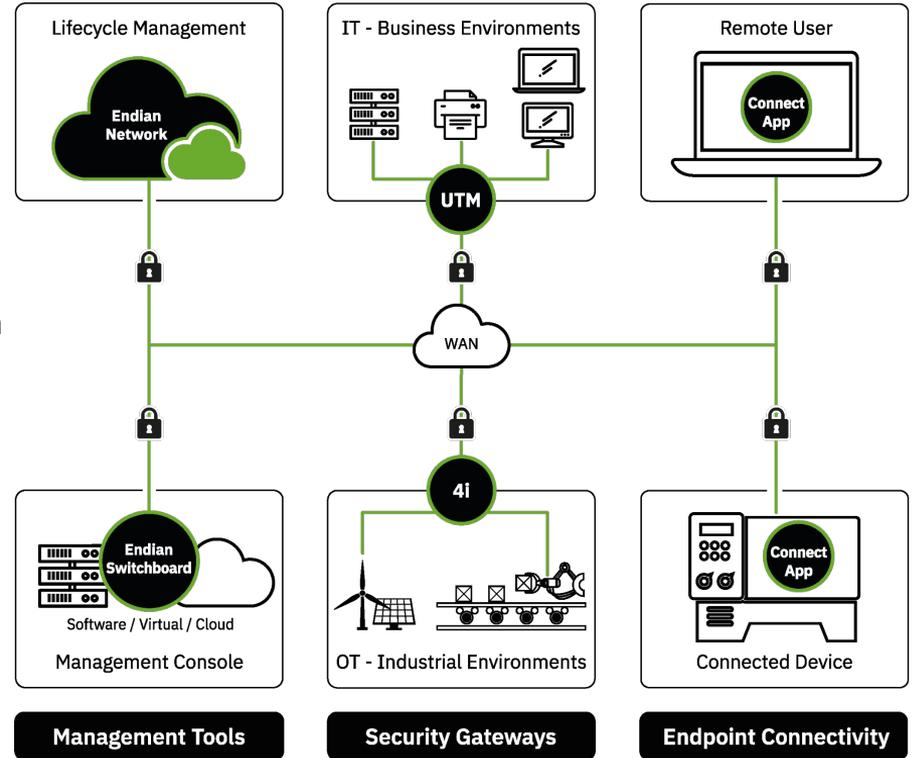
- Administer the whole solution lifecycle
- Manage the components of the Secure Digital Platform

## 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



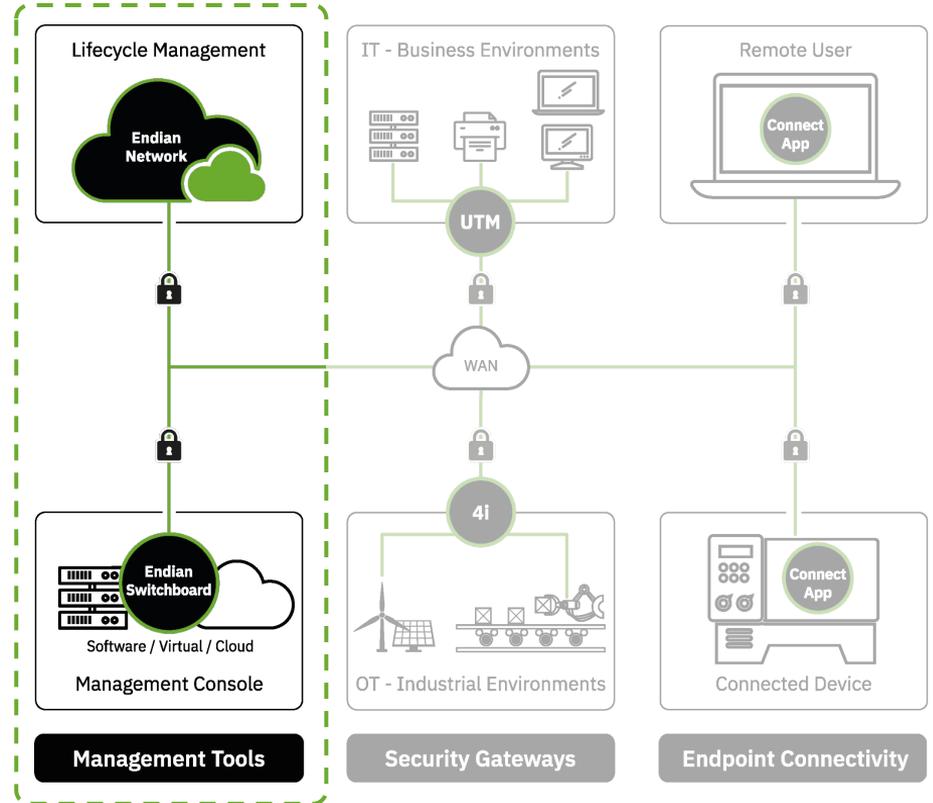
# Management Tools

## 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



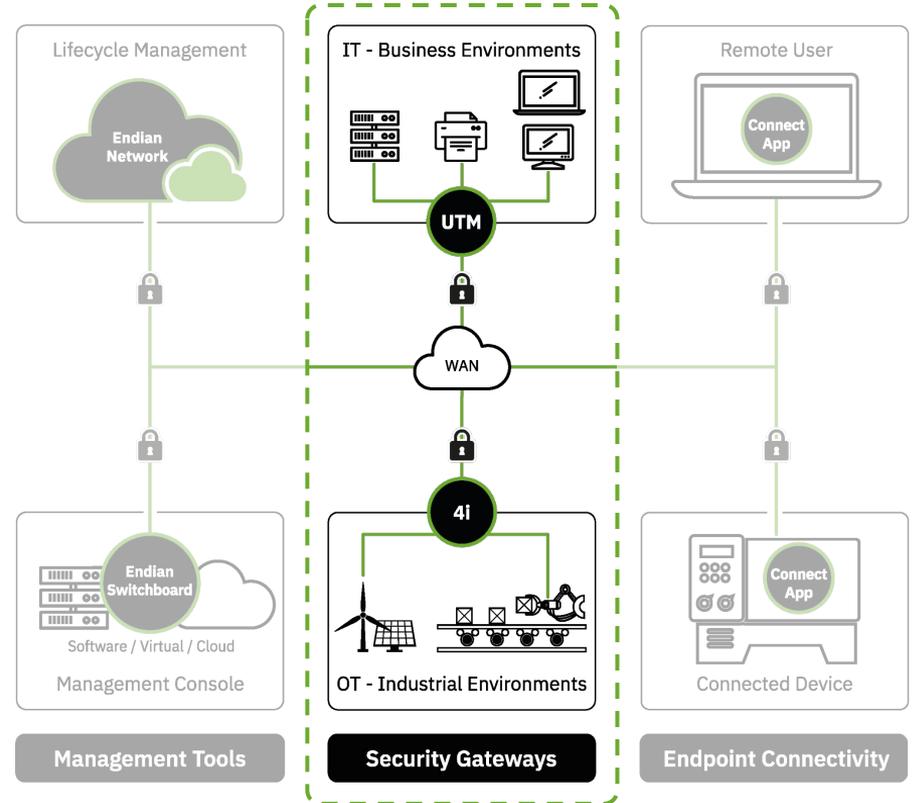
# Security Gateways

## Endian UTM for IT

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

## Endian 4i for OT

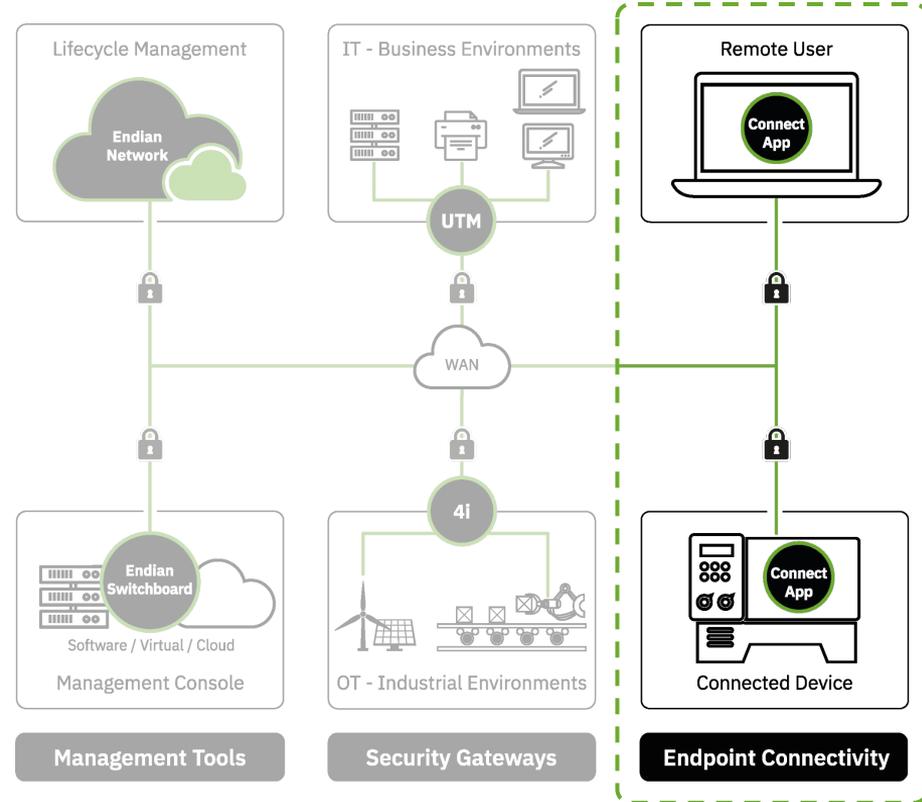
- Protect and monitor OT networks with EndianOS
- IoT/OT protocol connectivity and support
- Reliable connectivity in industrial environments



# Endpoint Connectivity

## Endian Connect App

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

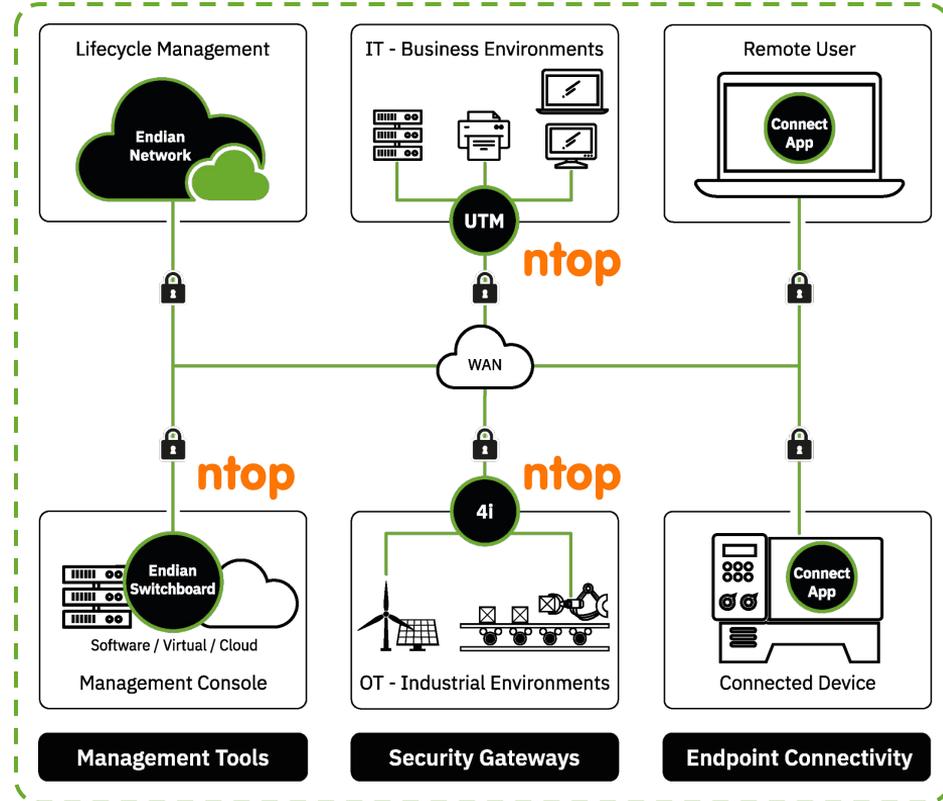


# Partner Applications



## 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

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- Microsegmentation
- IAM & MFA
- Manage CA & Certificates

## Secure Remote Access

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

## Monitor Networks & Risks **ntop**

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- Distributed Asset Discovery
- Risk Assessment
- Anomaly Detection

## Prevent Attacks **ntop**

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

## Run Edge Applications

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

## Manage Devices & Automate

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- 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

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

### Asset Discovery

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

### Risk Analysis and Alerts

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

### Anomaly Detection

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

### Network History

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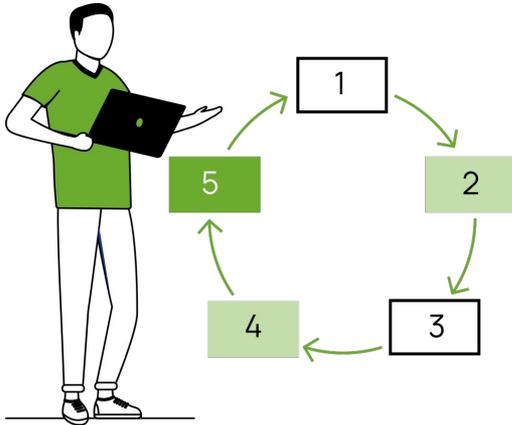
- Storage of flows in Clickhouse
- Monitor network Quality and Security
- Reporting of trends

### Made in Europe

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- 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

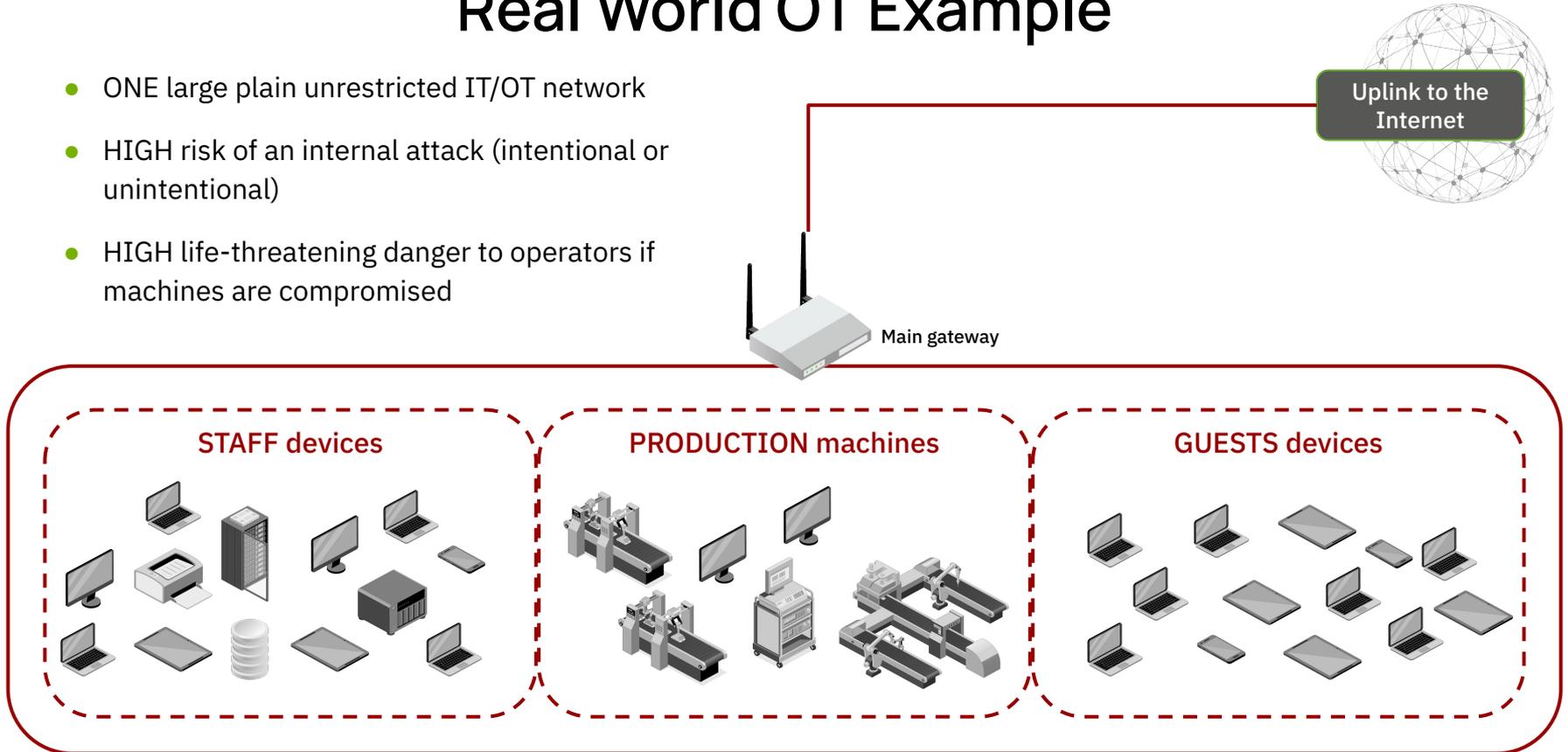
**Manage** the lifecycle of your network and assets to keep them monitored and secure

## Step 5

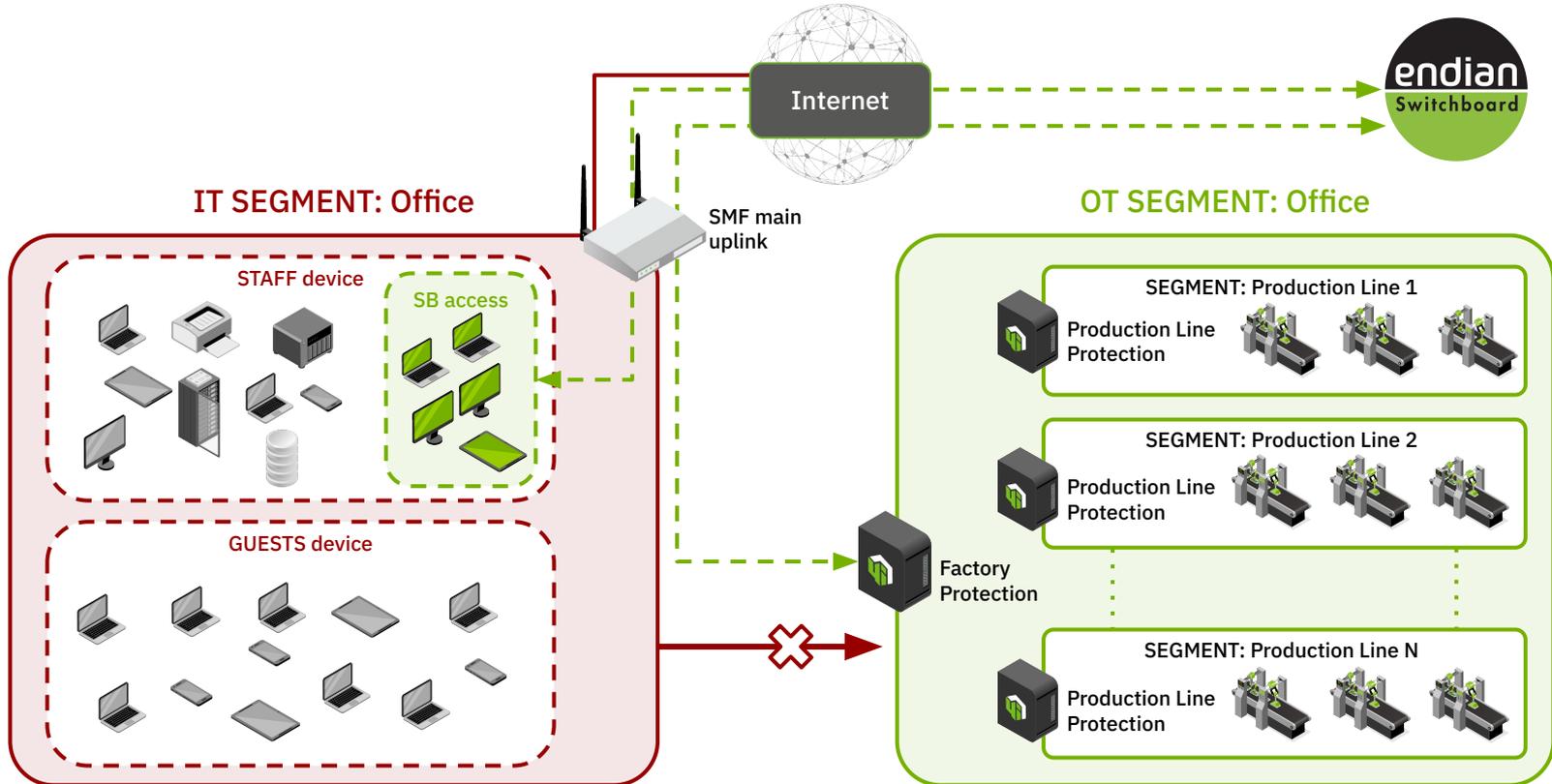
**Reach** compliance with NIS2, IEC 62443, Cyber Resilience Act and more

# 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)



## Small and Medium-sized Businesses (IT)



## Manufacturing companies (Smart Factory)



## 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

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#### **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! :)