Cybersecurity For OT with Microsoft solutions

February 2025



OT excellence is composed of key topics that all have different levels of maturity

Build resiliency

Design and deploy at large scale protections for network, machines and accesses Protection framework should be modular/adaptive depending on site business criticality

Visibility

Get a clear vision of the assets to protect based on inventory/cartography (physical and functional) and risks analysis to define a progressive roadmap

Detect & react

Capability to detect attacks on all machines connected to the industrial networks, but also the abnormal behaviors

Maintain the level of resilience

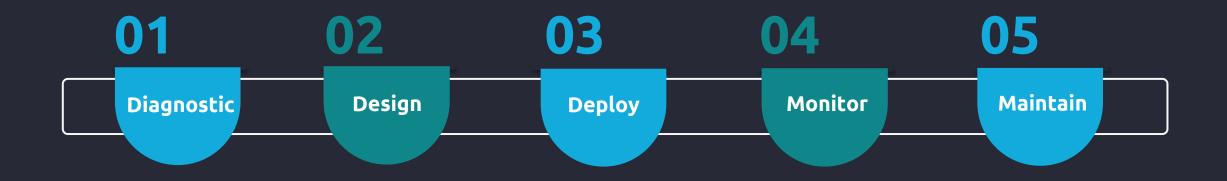
Anticipate new offers to improve production efficiency which paradoxically increases the cyber risks (i.e., greater IT connections) and supports the transition to industry 4.0

All this must be adapted to OT context :

Security & Safety consistency,

taking into account Operations Constraints (eg machine availability for patching, machine allocated to function and not individual) respecting Performance & Technology Constraints (eg latency, network band with, machine CPU/memory, OS obsolescence) and being compliant with local/business regulations Securing an industrial system is a long journey to go step by step based on a compromise with risks, compliance, costs and timeline

To reach the "OT excellence", we propose 5 service components to support the client increasing his maturity along the journey



With MICROSOFT Solutions we are covering the Diagnostic and Monitor service components.

OT/IIOT High-Level Architecture and Value



OT Asset Discovery and Management

Agentless discovery showcasing what devices are doing and how they are communicating.

Risk and Vulnerability Analysis

What are the risk associated and mitigation impacting OT environment. Periodic updates and vulnerability detection.

Continuous OT monitoring

Real time monitoring for traffic and vulnerabilities.

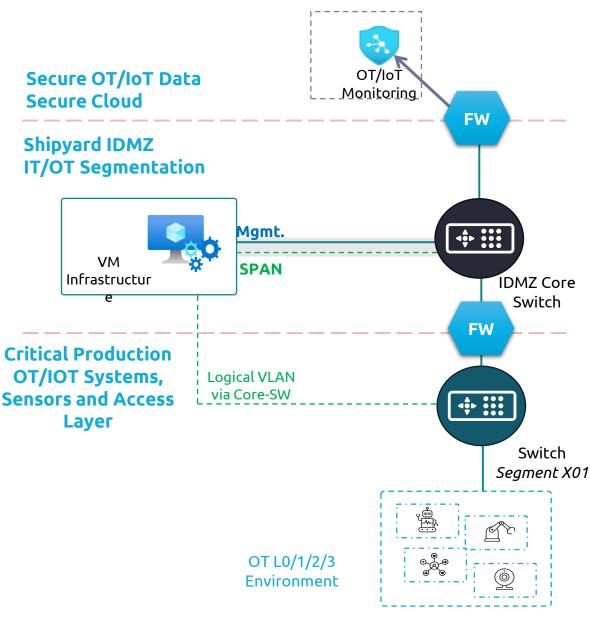
Detects anomalous communication between plant devices.

Unified Security Monitoring and Governance

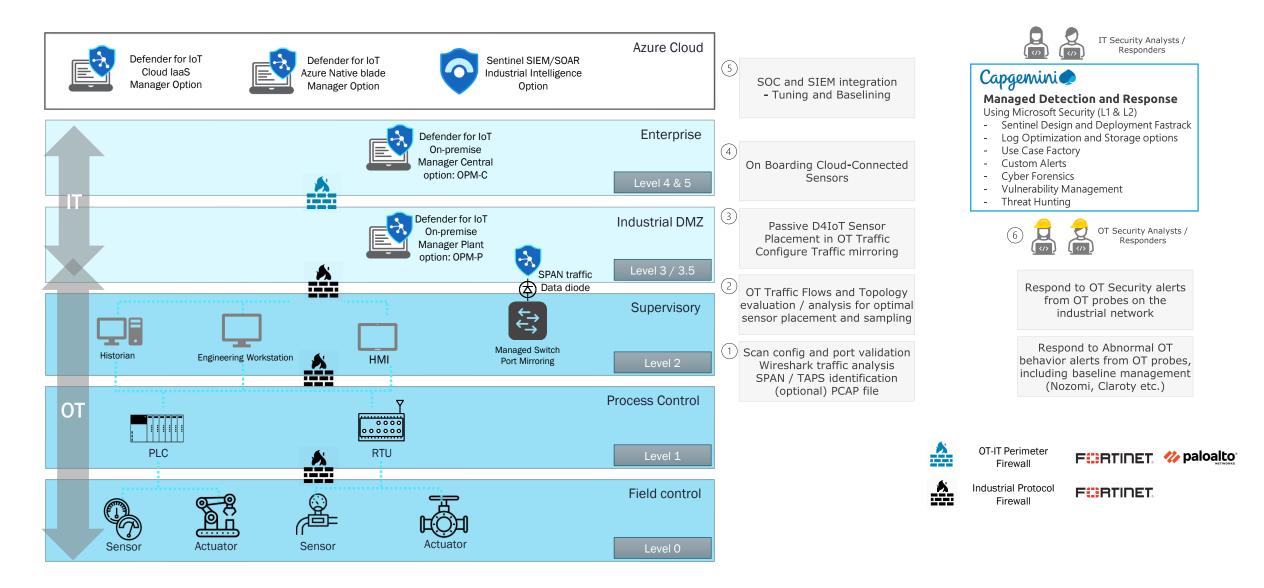
Single pane of glass for visibility with built-in reporting structure



VM Instance Config vCPU: 8 Memory: 32 GB Storage: 500 GB (300 IOPS)



Secure Reference Architecture Design and Roadmap



Progressive OT Detection regarding client risks



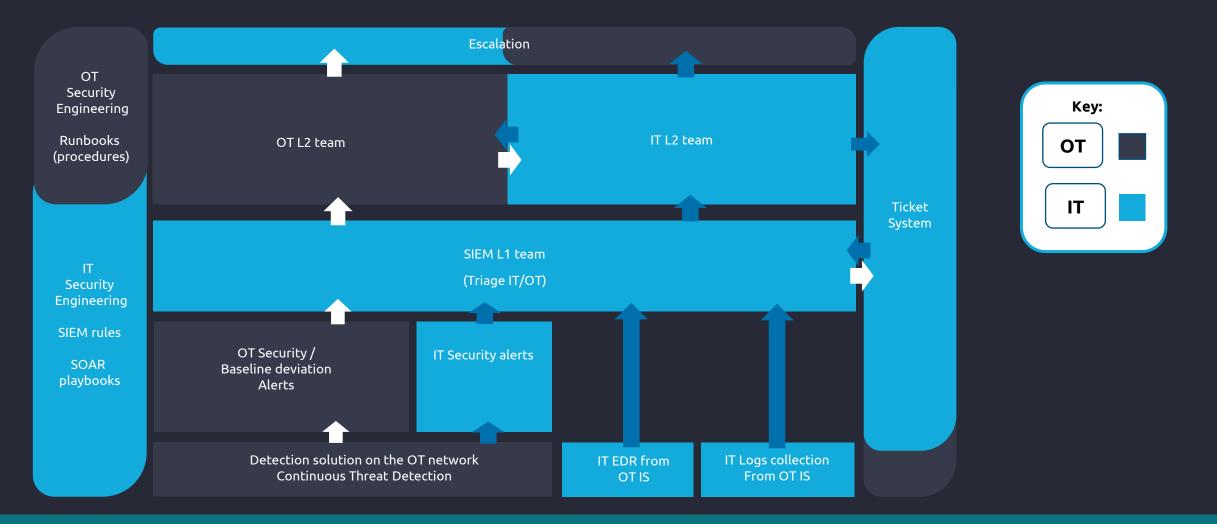


Preventative Actions

- Hygiene score follow up including OT Vulnerability Scanning
- Single problems / weaknesses / incidents will be checked across all factories
- Leverage feedback from other client engagements from Capgemini OT Knowledge base
- OT probe MRO, including detection use cases upgrade
- Support to cybersecurity representative at the factory

Integrated solution to existing IT SOC



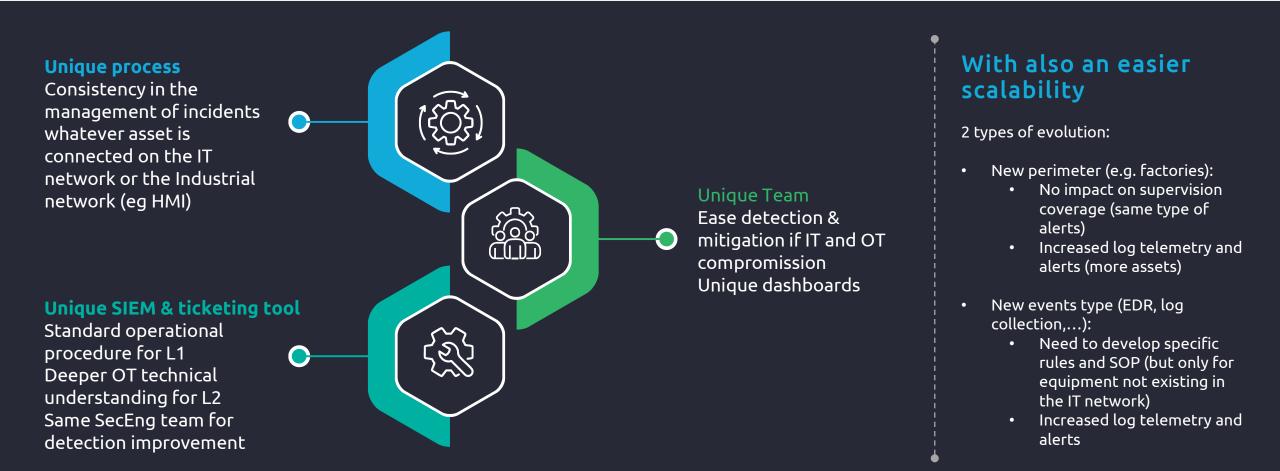


A dedicated cybersecurity leader per factory

This person with the perfect knowledge of the shopfloor and the industrial process will be the decision maker for any remediation plan.

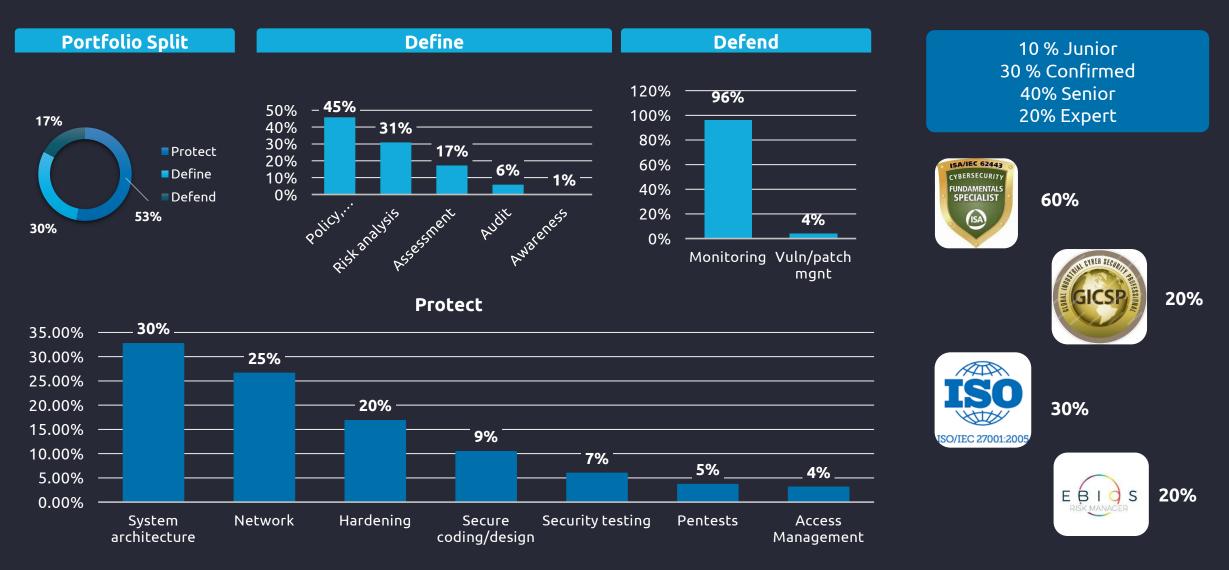
Advantages of a converged IT/OT supervision

Processes, tools and analysts mutualization to improve efficiency



Why Capgemini?

Because of our Cybersecurity OT experience based on close to 500+ projects for 100+ clients (multi sectors) delivered by 200 consultants world wide in the past 10 years. Also currently monitoring 300 factories



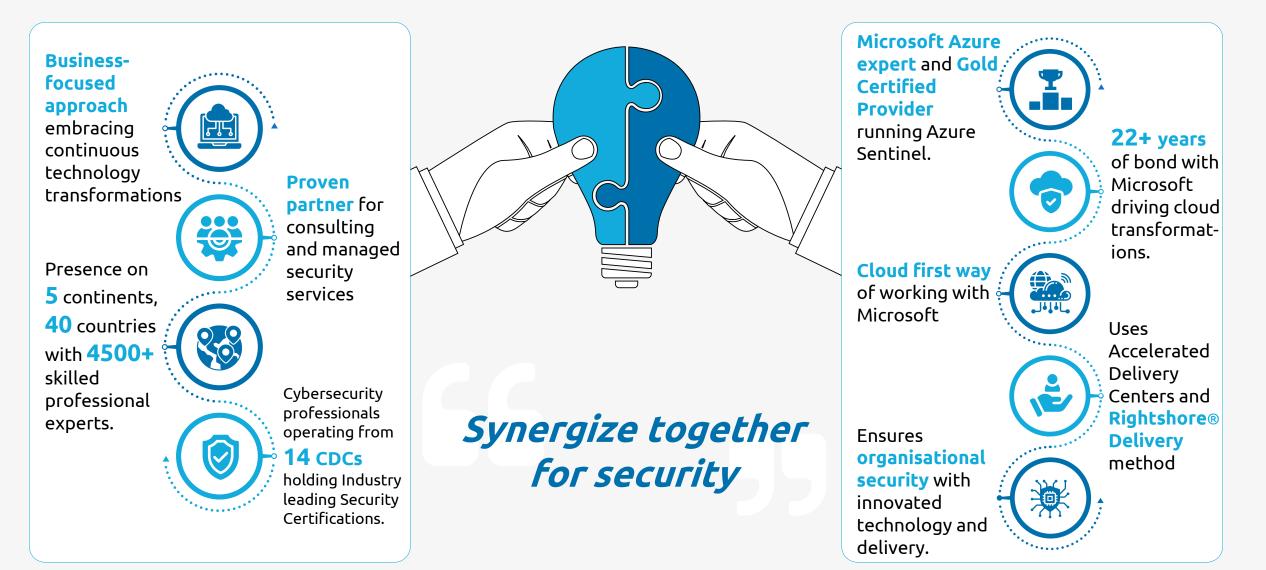
Large experience in monitoring Factories





Better Together – Capgemini and Microsoft





Let's qualify the client need to build a joint proposal Thank you!

