

JOINT SOLUTION BRIEF

PIONEERING COMPREHENSIVE OT SECURITY SOLUTIONS

Redefining Industrial Cybersecurity Challenges

The industrial landscape has witnessed unparalleled growth in Operational Technology (OT) and the Industrial Internet of Things (IIoT), ushering in a new era of challenges for cybersecurity.

As over 90% of OT environments monitor less than 20% of their assets, a significant visibility gap exists, leaving systems vulnerable to undetected threats and unauthorized access. This gap underscores the critical need for comprehensive asset visibility and protection to safeguard our most vital industrial processes and data.

A Joint Solution

In an innovative partnership, EmberOT and Opscura offer an integrated approach to industrial cybersecurity, combining Opscura's segmentation, encryption, and cloaking capabilities with EmberOT's unparalleled asset discovery and continuous observability. This collaboration addresses the critical challenge of asset invisibility in OT environments, ensuring that every device is accounted for and protected.

EmberOT's Unique Approach to OT Security

EmberOT stands out with its 100% software-based solution, empowering analysts and operators with tools designed explicitly for OT environments. This approach ensures:

Complete Asset Visibility

EmberOT's sensor technology discovers and protects invisible OT assets at scale, enabling up to 100% visibility into your OT environment by deploying on almost any existing hardware.

Continuous Observability and Risk Indexing

Through localized aggregation and correlation of sensor data, EmberOT provides real-time threat detection and defense, offering actionable insights to quantify risk and prioritize vulnerabilities specific to your environment.

Customizable Threat & OT Detection

EmberOT allows for customized threat rule sets and the unique ability for users to author and/or upload detections — a feature unmatched by competitors.

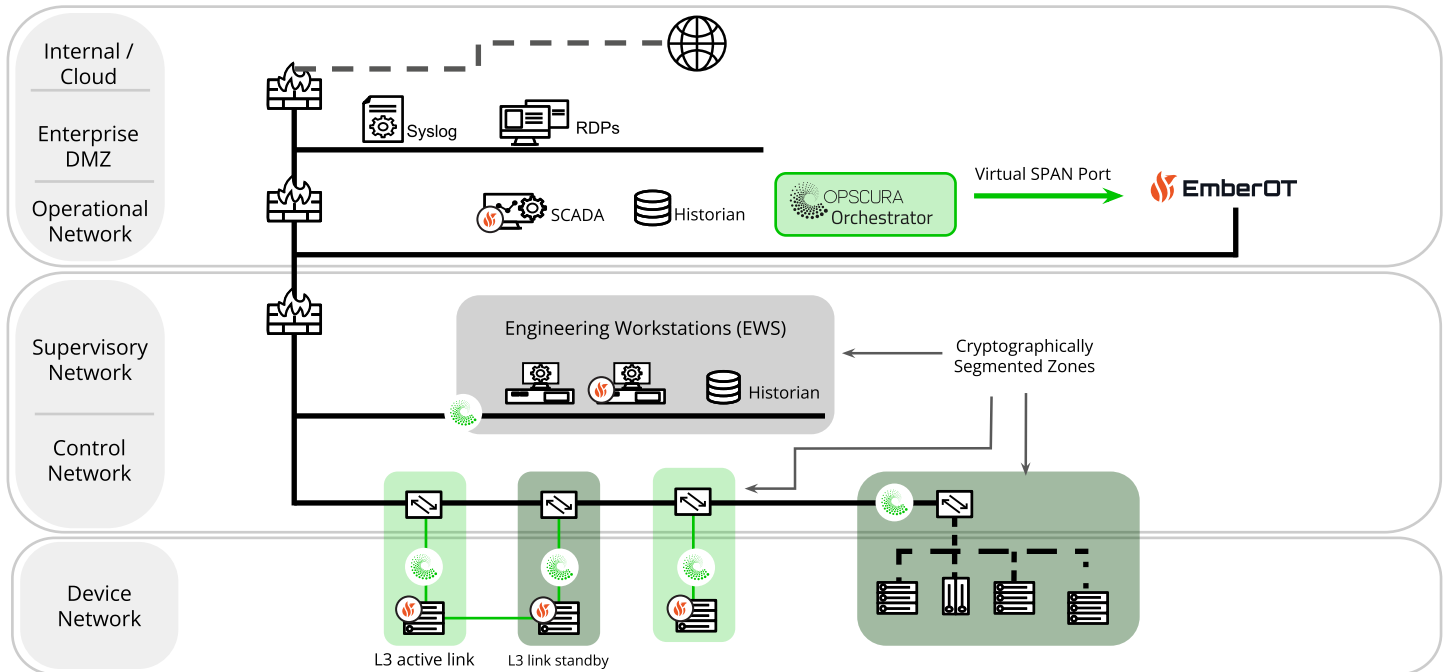
Opscura Solution Benefits

- Deploys transparently without rearchitecting the network, reconfiguring switches or routers, or changing IP addresses
- Cloaks traffic from observation, preventing attacker discovery and reconnaissance
- Shields vulnerable assets from attack
- Allows selective communication between IT and OT assets, while maximizing OT security
- Can be deployed without disrupting time-critical, latency sensitive processes
- Enables network monitoring and observability tools
- Enforces Zero-trust access to OT assets

Opscura Solution Features

- Available as an industrial appliance with hardware Ethernet bypass or a virtual machine
- Operates at Layer 2
- Transparent encrypted tunnels
- High-speed low-latency encryption
- Integral Layer 2 and Layer 3 filtering
- Temporal ports
- Integral network discovery tools
- Virtual SPAN port

Joint Solution Architecture



The Operational and Strategic Benefits of the EmberOT and Opuscula Integration

Enhanced Coverage

It spans the full spectrum of monitoring and protection for OT environments, from asset discovery to threat detection and response.

Operational Resilience

By securing vulnerable systems and reducing the attack surface, the integrated solution significantly enhances the security and resilience of critical infrastructure.

Streamlined Deployment

The solution can be deployed utilizing existing infrastructure and offers flexibility and efficiency, minimizing disruptions to critical processes.

Strategic Security Insight

Providing security teams and operators with curated, actionable data, the solution empowers them to make informed decisions, enhancing both security posture and operational efficiency.

A Unified Vision for the Future of Industrial Cybersecurity

EmberOT and Opuscula are setting new standards for industrial cybersecurity solutions. With a focus on zero trust and segmentation, while eliminating blind spots and ensuring continuous observability, this partnership addresses the urgent need for comprehensive and customizable security measures in the face of evolving threats.

By leveraging the strengths of both EmberOT's observability, detection, and risk quantification capabilities and Opuscula's network protection innovations, this joint solution represents a pivotal step forward in securing the future of industrial operations.

About EmberOT

EmberOT is at the forefront of operational technology (OT) security, offering cutting-edge solutions designed to protect critical infrastructure within energy, utilities, and manufacturing sectors. With an intuitive architecture and advanced software sensors, EmberOT simplifies the complex task of securing OT networks against an evolving threat landscape. For more about EmberOT, visit www.emberot.com or email info@emberot.com.

About Opuscula

Opuscula protects and connects industrial networks with easy-to-use innovations that are safe to use deep within operational infrastructure. Validated by global partners, Opuscula reduces operational risks by protecting vulnerable legacy industrial assets and data, eliminating deep-level attacker footholds, and enriching threat visibility data. Brownfield and greenfield global customers rely on Opuscula for OT cloaking, isolation, and Zero Trust authentication, together with simplified IT-OT connectivity. For more about Opuscula, visit www.opuscula.io or email contact@opuscula.io.