



Safeguarding Critical Infrastructure with Tailored OT Security Solutions

Operational Technology (OT) is the backbone of essential infrastructure across various sectors, from **electricity, water treatment and wastewater to transportation, telecommunications, and healthcare**. Securing these environments is crucial to maintain the safe, reliable delivery of services that communities and economies rely on daily.

OT systems manage physical processes and equipment, where disruptions can pose safety risks, cause downtime, harm the environment, or even result in loss of life. As cyber threats grow more sophisticated and the use of connected devices and the Industrial Internet of Things (IIoT) expands, the attack surface widens. **This makes strong OT security a pressing priority for organisations in every industry.**

Sector-Specific Challenges and Compliance Requirements

Critical infrastructure sectors are navigating a range of OT security challenges. You need to make sure electricity grids stay resilient, protect water and wastewater facilities from sabotage, secure transportation operational systems, and safeguard telecommunications networks, including 5G and IoT. It's also crucial to maintain transportation operations, prevent disruptions in manufacturing automation, and ensure healthcare systems remain available. Addressing these challenges calls for security measures tailored to comply with regulations like the EU's NIS2 Directive and key frameworks like IEC 62443 and NIST SP 800-82, thereby protecting operations, safety, and compliance are protected.

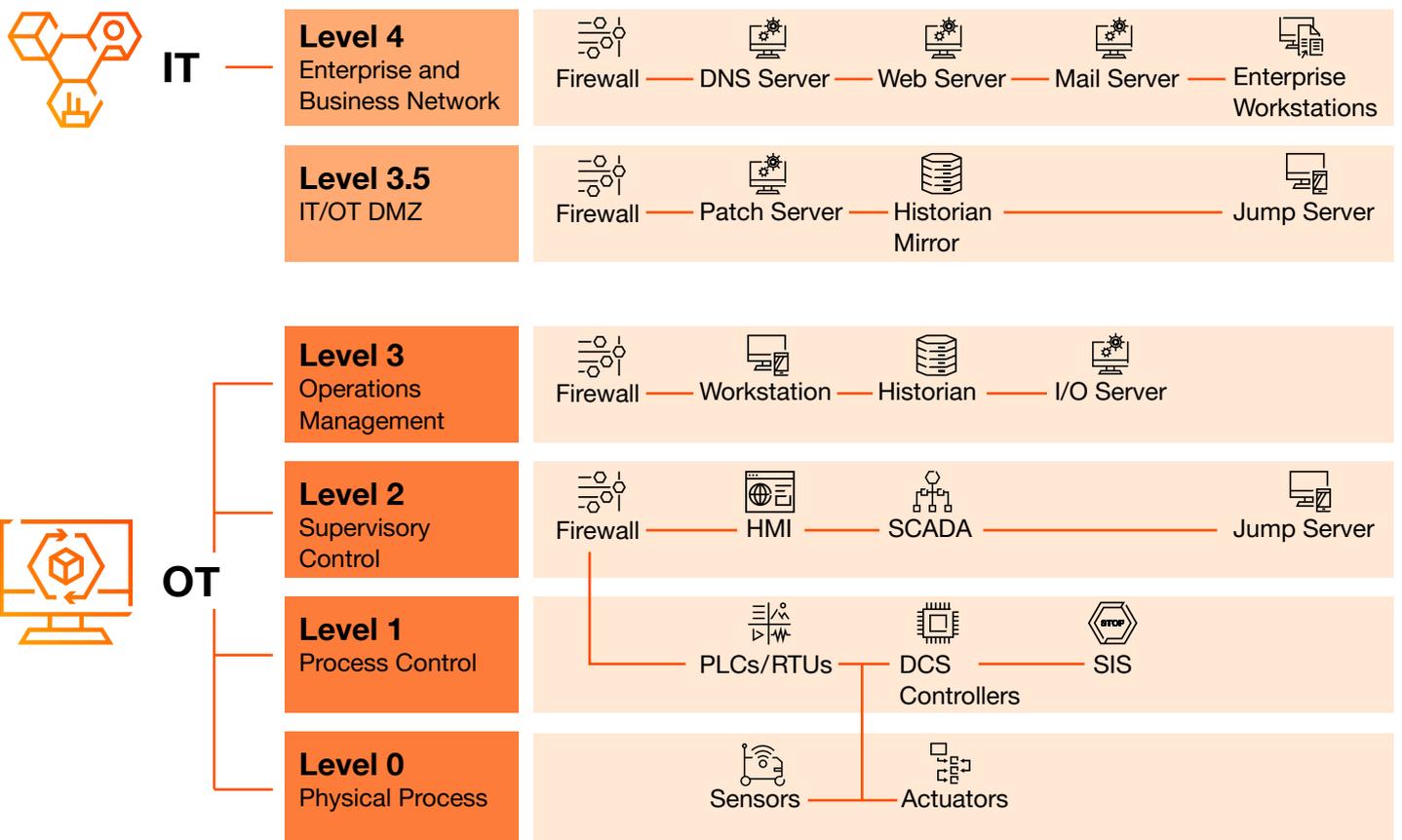
Understanding OT Security vs IT Security

Operational Technology (OT) and Information Technology (IT) are both essential in today's organisations, linking devices and networks. But their goals, risk levels, and operational needs are quite different. The table below outlines the main differences in OT and IT security, showing why tailored strategies are crucial for safeguarding each environment.

Aspect	IT Security	OT Security
Primary focus	Protecting data confidentiality and integrity	Ensuring system availability and safety
Systems	Office networks, servers, user endpoints	Industrial control systems (ICS), SCADA, PLCs, sensors
Downtime impact	Productivity loss, data breaches	Physical damage, safety risks, production halts
Update frequency	Frequent patches and updates	Limited downtime windows, legacy systems
Threat landscape	Cybercriminals aiming at data theft	Nation-state attacks, sabotage, safety breaches

Our OT Security Solution

OT environments differ from traditional IT networks by following the Purdue Enterprise Reference Architecture. This model divides industrial networks into six distinct levels, ranging from physical processes to enterprise and business networks. By segmenting in this way, we can apply specific security measures to each layer, ensuring both safety and availability.





We provide thorough OT security assessments that align with the Purdue Reference Model. Our goal is to pinpoint vulnerabilities, confirm controls, and enhance segmentation across every OT network layer and IIoT system. Our offerings include:

- Architecture and Configuration Review
- Asset and Device Discovery
- Network Traffic Analysis
- Vulnerability Assessment and Penetration Testing
- Physical Security Penetration Testing
- Segmentation Testing and Access Control Assessment
- Industrial IoT (IIoT) Security Assessment

Key Benefits of Our OT Security Solution

- Holistic protection of your entire OT environment, from physical access to network architecture.
- Reduced operational risks by minimizing downtime and ensuring industrial continuity.
- Clear, prioritized recommendations based on deep understanding of your unique OT landscape.

Securing Your Industrial Operations Together

Keeping your operations safe and continuous is crucial in industrial settings. Our Industrial & OT Security service works closely with you to foresee, counter, and tackle emerging cyber threats. By applying trusted frameworks like the Purdue Model and conducting thorough assessments, we help you create a robust, secure, and adaptable OT infrastructure.

Securing your OT environment is vital for safety, reliability, and business continuity. Work with us for a custom security assessment to spot vulnerabilities, lower risks, and confirm compliance.

Let's join forces to ensure your critical operations run smoothly without interruptions. Reach out to us today to arrange your OT security assessment or discover more about protecting your industrial operations.

Contact us

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