



OPSWAT.

MetaDefenderTM Protection Solutions

For OT & Cyber-Physical Systems

Protecting the World's Critical Infrastructure



The Challenge

As IT and OT systems converge, OT environments face escalating cybersecurity threats. Attackers—from nation-states to insider threats and supply chain vulnerabilities—exploit the gaps created by legacy systems, insufficient network segmentation, and lack of visibility.



These environments are particularly vulnerable due to their reliance on proprietary protocols, long equipment lifecycles, and limited patching capabilities.

Cyberattacks on OT systems often target availability and safety, potentially causing widespread operational disruptions and endangering human lives.

MetaDefender OT & CPS Protection Solutions address these challenges head-on, providing tailored, robust, and scalable security solutions to protect your most critical systems.

What We Solve

With the MetaDefender OT & CPS platform, your critical infrastructure can proactively defend against advanced persistent threats and zero-day vulnerabilities while maintaining optimal performance and safety. By leveraging a cohesive, modular solution that integrates asset visibility, network protection, secure remote access, and safe data transfer, you gain the tools to secure OT and CPS environments and confidently meet the evolving challenges of today's threat landscape.

METADEFENDER™
OT Security



METADEFENDER™
Industrial
Firewall



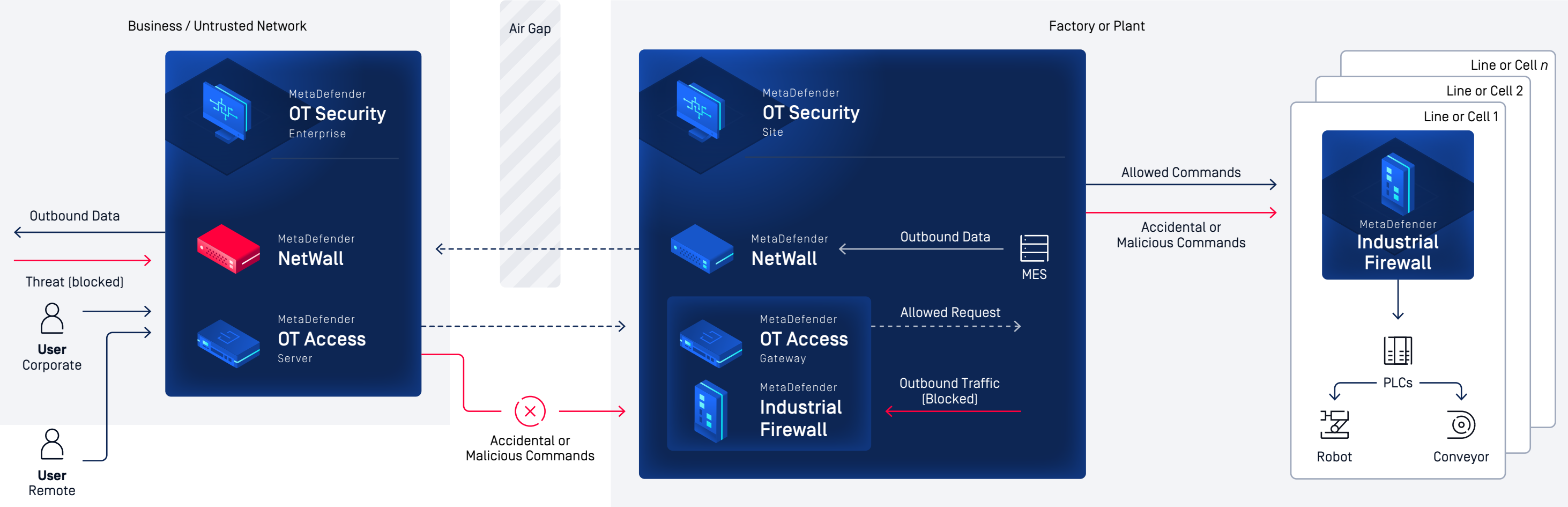
METADEFENDER™
OT Access

METADEFENDER™
NetWall™ Series



Compelling Benefits

- Unified Platform**
Gain comprehensive control with integrated asset visibility, network security, remote access control, and secure data transfer.
- Simplified Deployment**
Set up and deploy confidently with centralized management via MetaDefender OT Security.
- Real-Time Protection**
Detect and prevent threats and anomalies to maintain operational continuity.
- Broad Protocol Support**
Expand compatibility with support for industrial protocols like Modbus, OPC, Ethernet/IP, Profinet, IEC 68150, and more.
- Regulatory Compliance**
Simplify adherence to standards like NERC CIP, IEC 62443, and NIS2.
- AI-Powered Security**
Stay ahead of threats with adaptive AI/ML-powered technologies built for the future of OT security.
- Reduced Downtime**
Minimize disruptions with proactive threat management and incident response.
- Future-Proof Scalability**
Adapt and scale your security with modular solutions that grow alongside evolving OT security needs.





OPSWAT.

METADEFENDER™

OT Security

OT Asset Discovery, Inventory, and Patch Management—Simplified

Designed for critical OT environments, this advanced AI-powered asset management solution protects against sophisticated cyberthreats and anomalies while maintaining compliance with regulatory security requirements. By offering comprehensive asset discovery, network monitoring, inventory, and patch management capabilities, MetaDefender OT Security delivers unmatched visibility and control. With its OT-friendly UI and easy deployment process, it is the ideal solution for enterprise-scale deployments. MetaDefender OT Security integrates seamlessly with industrial firewalls, IPSs, and NACs, allowing organizations to implement in-depth security controls without process disruptions.



Real-Time Threat Detection

Identification and alert of threats and anomalies in OT environments.



Flexible Asset Monitoring

Asset details through active, passive, and Smart Asset Profiling methods.



Integrated Patch Management

Streamlined software update deployment and tracking.



Comprehensive OT Dashboard

Customizable and intuitive visualization of security metrics.



Advanced Risk Intelligence

Accurate risk scoring with actionable incident response insights.

Deployment Options

1. Din Rail
2. 1U Server
3. Virtual Machine
4. Cloud

METADEFENDER™

Industrial Firewall

Active Protection for Critical OT and Cyber-Physical Systems

Protecting critical infrastructure with AI-driven network security, MetaDefender Industrial Firewall is the last line of defense against accidental misconfigurations, malicious misuse, zero-day threats, DoS/DDoS attacks, and potentially harmful anomalies. This security solution uses advanced AI to streamline policy development and protect operations and process control networks. Its ruggedized hardware ensures deployment in harsh industrial environments, supporting over 100 network protocols for comprehensive protection.

MetaDefender Industrial Firewall integrates seamlessly with MetaDefender OT Security to bring active threat detection and asset management in a single interface.



DPI [Deep Packet Inspection]
Prevent unauthorized access or intentional misuse by monitoring and filtering traffic based on industrial protocols like Modbus, DNP3, and IEC 61850, including proprietary GE protocols.



Network Segmentation
Strengthen security posture by reducing the attack surface and isolating sensitive OT systems from external threats.



IEC 62443 Compliant
Contain breaches effectively by protecting against lateral movement while maintaining necessary data flows.

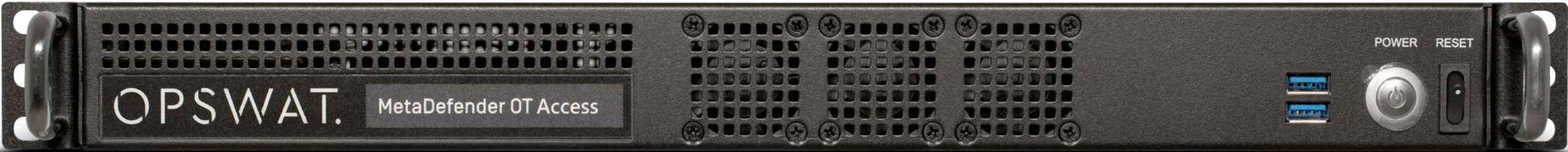
METADEFENDER™

OT Access

Industrial Secure Remote Access

Traditional VPNs often grant broad, unrestricted access, leaving critical OT systems vulnerable. MetaDefender OT Access redefines secure remote access with a line-of-sight model, enabling users to interact exclusively with authorized assets, protocols,

and activities. This approach minimizes the attack surface and enhances network protection. With centralized control, it simplifies remote access for third parties, OEMs, and contractors, eliminating the need for multiple tools.



Key Benefits



Protect critical systems from unauthorized changes



Enhance compliance with traceable access logs



Reduce the risk of human error in sensitive operations

Deployment Options

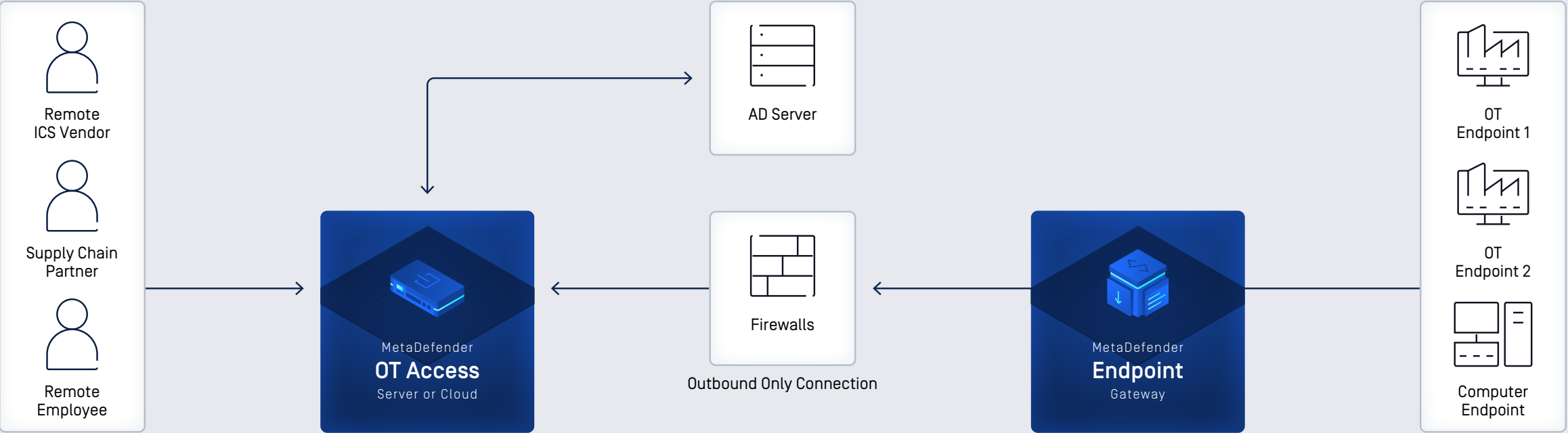
On-Premises



Cloud



MetaDefender OT Access secures remote access by protecting OT endpoints through AD Server authentication and outbound-only firewall connections. Together with MetaDefender Endpoint Gateway, the system isolates OT and IT assets to ensure controlled access to critical infrastructure.



Key Features



Granular Permissions
Assigns roles and access levels based on user requirements.



Easy Deployment in a Day
Rapid setup with flexible deployment options—AWS instances, VMs, or pre-installed appliances—requiring no ongoing holes in your firewall, only 443 outgoing.



Secure Remote Access
Enables safe remote maintenance without exposing systems to vulnerabilities.



Seamless Integration*
Integrates with MetaDefender Industrial Firewall for comprehensive security; Microsoft Active Directory for authentication; MetaDefender Managed File Transfer for secure file transfers; and Splunk for SIEM.



Session Recording
Logs every session for syslog compliance and audit purposes. RDP sessions can be recorded and stored for review, with support for monitoring clientless Remote Desktop sessions.

*ServiceNow and MetaDefender Core integrations are coming soon.

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NetWall™ Series

Next-Level Data Diode and Security Gateway Solutions



Key Benefits



Secure real-time OT data transfers to business users without disrupting their operations



Transfer files and replicate databases/servers without proprietary vendor hardware and software



Support high-assurance payload delivery that allows concurrent transfers of multiple data types



No complicated firewall audit/configuration projects and risky backdoor channels to the OT network



Full compatibility with major industrial protocols: OPC DA, A&E, UA, IEC 104, AVEVA PI, Modbus/TCP, file transfers, and TCP/UDP sockets

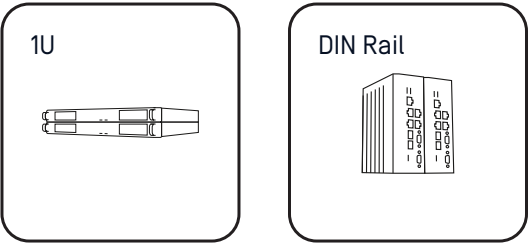


METADEFENDER OPTICAL DIODE
provides one way data transfer using an optical link

METADEFENDER

Optical Diode

Deployment Options




MetaDefender Optical Diode provides a hardware-enforced unidirectional transfer of real-time OT data and enables secure IT-OT data transfers over a reliable, high speed, low latency optical link. Since no return-path networking is possible, MetaDefender Optical Diode transfers real-time operations data while conforming to industry regulatory requirements for deterministic one-way transfer device. MetaDefender Optical Diode performs payload integrity checking and supports redundant optical links, achieving unsurpassed reliability and data delivery assurance.

MetaDefender Optical Diode is available on enterprise servers or ruggedized DIN rail servers that can be deployed in harsh industrial environments.

Smarter Threat Analysis, Stronger OT Defense

Unlike traditional point solutions that address singular problems, OPSWAT's MetaDefender OT & CPS Protection solutions offer a comprehensive approach tailored to the unique challenges of OT environments. With a deep understanding of OT operations, our solutions effectively mitigate critical threats while ensuring seamless interoperability. Customers can deploy our products individually to tackle specific needs or integrate them for end-to-end protection, delivering unmatched flexibility and robust security.

	Other Solutions	OPSWAT
Network Threats	Basic threat and anomaly detection for alert generation	Integrated network mitigations enable OT staff to take control and resolve issues quickly and safely
Asset Inventory	Listens to mirrored network traffic to fingerprint assets	Integration with MetaDefender Industrial Firewall provides better discovery with fewer dedicated probes
Asset Vulnerability	Only updates or patches devices by comparing assets against the NVD to identify vulnerabilities	Integration with MetaDefender OT Security provides proactive vulnerability management
Interoperability	Point solutions for each customer problem, requiring third-party vendors for additional solutions	MetaDefender OT solutions will be integrated onto a single platform, covering all OT challenges
Pricing	High Individual pricing for point solutions	Low Starting at \$2,000
Protocol Support	Limited support	Support for all major industrial protocols
Usability	Limited IT-focused designs	Easy to use OT-focused designs
Integrated Asset Visibility and Management		Available via an integration between MetaDefender OT Security and MetaDefender Industrial Firewall

METADEFENDER

OT Security + Industrial Firewall

Detect and Prevent OT Threats in Real Time.

Challenge:

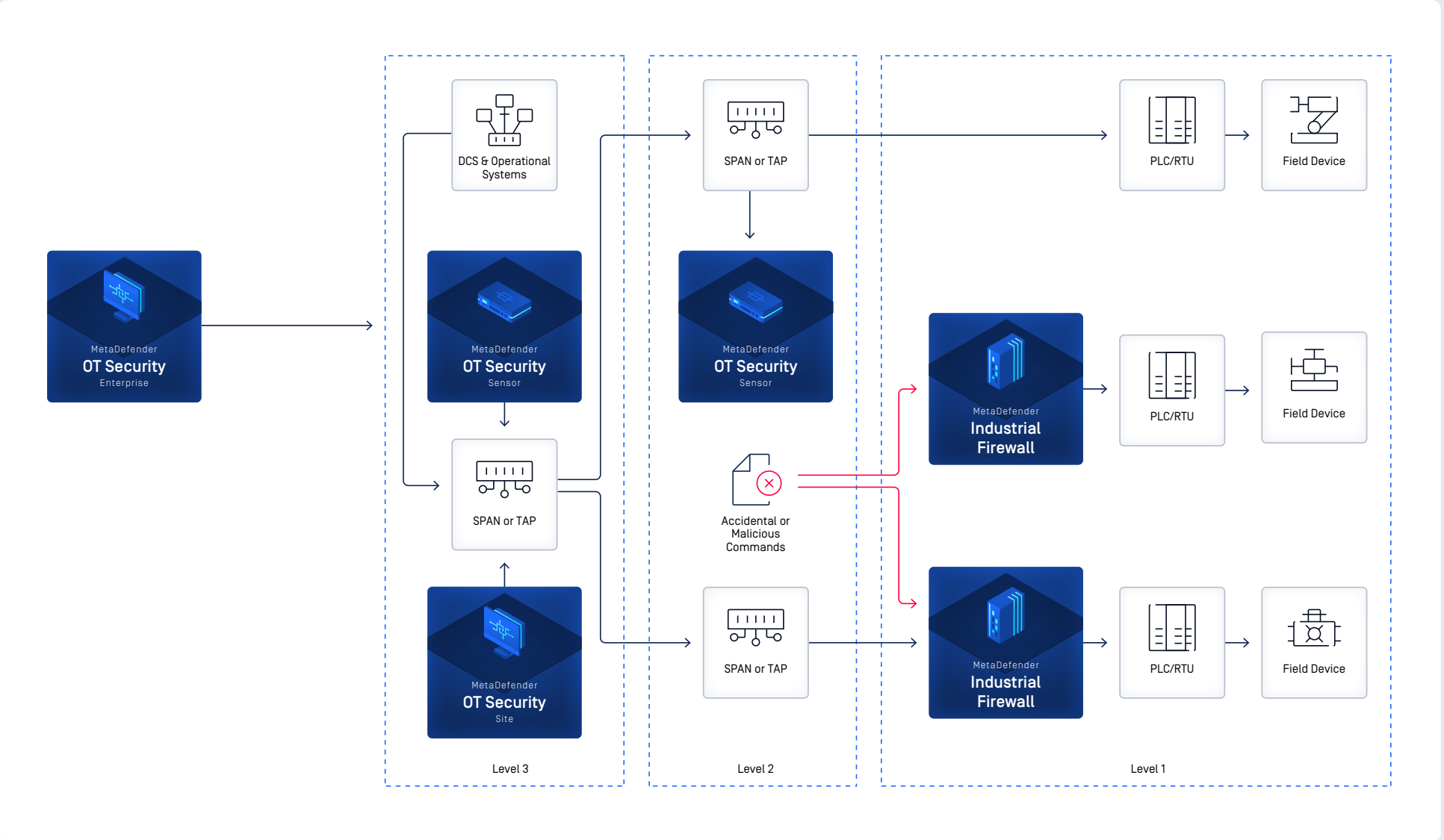
Sophisticated cyberthreats target operational technology, requiring multi-layered defense.

Solutions:

- Detect: MetaDefender OT Security continuously scans OT networks to detect unauthorized devices, anomalous activities, and potential threats.
- Prevent: MetaDefender Industrial Firewall enforces strict network segmentation, blocking unauthorized traffic and isolating critical systems to prevent threats.

Benefits:

- Unify Security Posture: Gain a seamlessly integrated detection and prevention system for complete OT protection.
- Simplify Compliance: Effortlessly comply with NERC CIP, IEC 62443, and NIS2 requirements.
- Strengthen Operations: Ensure the protection of critical processes while maintaining uninterrupted workflows.



METADEFENDER

OT Access + Managed File Transfer

Secure Remote Access and Control Data Exchange .

Challenge:

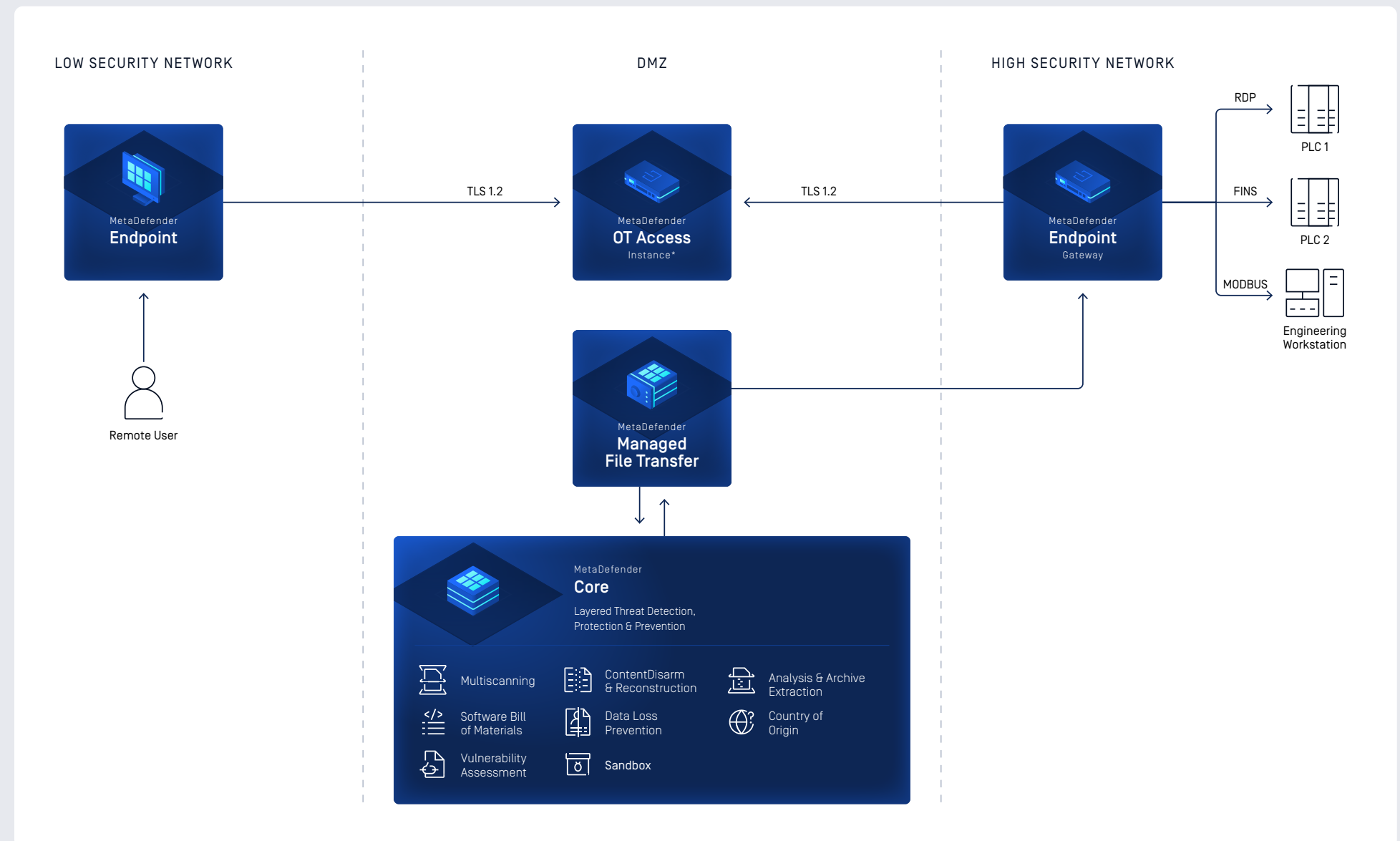
Remote access and file transfers in OT environments increase the risk of malware and data breaches.

Solutions:

- Access Control: MetaDefender OT Access enables time-limited, policy-enforced remote access.
- File Security: MetaDefender Managed File Transfer sanitizes and verifies every file before it reaches critical systems.

Benefits:

- Securely Collaborate: Control data exchange with remote stakeholders without compromising system integrity.
- Compliance-Ready: Meet the toughest regulatory requirements for file transfer and remote access.
- Boost Operational Confidence: Maintain security and uptime – even when working with third-party vendors.



GET STARTED

Secure your OT environment with OPSWAT MetaDefender OT & CPS protection today.

Talk to one of our experts today.

Scan the QR code or visit us at:

opswat.com/get-started

sales@opswat.com



OPSWAT.

Protecting the World's Critical Infrastructure

For the last 20 years OPSWAT, a global leader in IT, OT, and ICS critical infrastructure cybersecurity, has continuously evolved an end-to-end solutions platform that gives public and private sector organizations and enterprises spanning Financial Services, Defense, Manufacturing, Energy, Aerospace, and Transportation Systems the critical advantage needed to protect their complex networks from cyberthreats.

Built on a "Trust no file. Trust no device.™" philosophy, OPSWAT solves customers' challenges like hardware scanning to secure the transfer of data, files, and

device access with zero-trust solutions and patented technologies across every level of their infrastructure. OPSWAT is trusted globally by more than 1,700 organizations, governments, and institutions across critical infrastructure to help secure their devices, files, and networks from known and unknown threats, zero-day attacks, and malware, while ensuring compliance with industry and government-driven policies and regulations.

Discover how OPSWAT is protecting the world's critical infrastructure and securing our way of life; visit www.opswat.com.