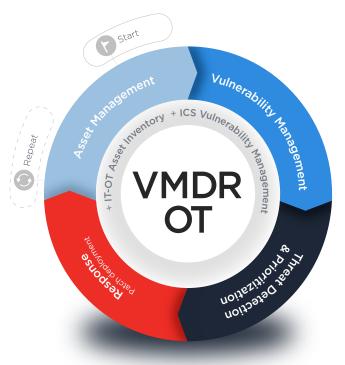


VMDR OT

View Industrial Assets & Manage Industrial Networks, Vulnerabilities & Threats

The interconnectivity between conventional IT networks and Operational Technology (OT) applications has increased productivity in the manufacturing, energy, and transportation sectors. However, this IT-OT convergence has also expanded the attack surface and exposed critical infrastructure to new cyber threats. Security stakeholders are now responsible for a network infrastructure that includes once air-gapped applications comprised of new industrial devices, that include



Finally, a single unified cybersecurity discovery, assessment, detection, and response solution for the hybrid IT-OT network environment.

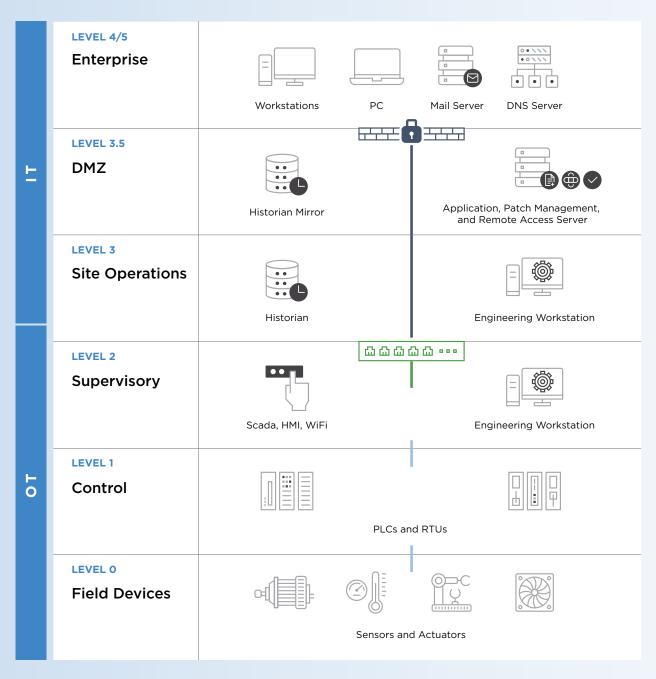
programmable logical controllers (PLCs), remote terminal units (RTU), industrial gateways, and more. These industrial devices run on diverse industrial protocols and are geodistributed, remote, and sometimes mobile.

Vulnerability management technologies need to provide the same asset discovery, and security oversight for OT as they have provided for IT.

Extend security and accelerate IT-OT convergence with a single agent, single dashboard, and single asset inventory.

Qualys VMDR OT is a cloud platform-based asset inventory and vulnerability management solution for real-time visibility into critical industrial infrastructure.

OT is a Platform Story



Qualys VMDR OT Provides



Extensive ICS/OT Protocol Support ffor IT and ICS protocols including S7Comm, Profinet, Ethernet IP, S7comm Plus, BACnet, Modbus TCP, DNP3, MQTT, IEC 104, CIP, OPC UA, IEC 61850 MMS, IEC 61850 GOOSE, SLMP, EtherCAT, Beckhoff ADS, CC Link IE, Niagara Fox, Omron Fins, PCCC, and many more.



Broad Industrial Vendor Support for major distributed control systems (DCS) and industrial automation vendors including Rockwell Automation, Siemens, Schneider Electric, OSI Soft, Mitsubishi, Invensys, Advantech, Aveva, Beckhoff, GE, Yokogawa, Emerson, ABB, Delta Electronics, WAGO and more.



Continuous, Real-time Visibility into your industrial networks via the Qualys Passive Network Sensor by capturing and processing network traffic from mirror ports of managed switches, as well as performing deep packet inspection (DPI) of IT and ICS/OT protocols.



Safe Active ICS On-Demand Scans capture complete asset information non-intrusively within the network environment, automatically mirroring the ICS/OT protocol language of any and all devices within the network via Qualys active scanners.



Multi-site Management optimizes monitoring of distributed plant and applications via a unified central management dashboard for greater simplicity, scalability, management oversight and ROI for security practitioners.



Identification of Vulnerabilities with the Qualys Out-of-Band Configuration Assessment (OCA) function that gathers additional asset inventory and vulnerability detection information, allowing security practitioners to collect metadata and configuration information from devices on how, when, and what data is accessed.



Prioritized Vulnerability Response with Qualys TruRisk™ provides risk-based scoring of vulnerabilities and threat prioritization based on asset criticality and potential business impact for improved MTTR.

Key Use Cases for Qualys VMDR OT

CHALLENGE SOLUTION OUTCOMES Qualys VMDR OT builds a comprehensive Complete, real-time asset visibility and Achieving and Maintaining a Complete monitoring capabilities extending real-time asset inventory via multiple Asset Inventory of Your ICS/OT Devices inputs including non-intrusive sensors device visibility across IT and ICS/OT ICS/OT devices and applications such as applications and software, down to Field that dissect industrial protocols. industrial PCs hosting operator stations, SCADA and Control network layers. Security servers, engineering workstations, IT stations Authenticated scans triggered for all practitioners receive complete device hosting manufacturing execution systems (MES), industrial endpoints with operating visibility regardless of location for and remote connectivity workstations are often systems like Windows and Linux, as improved compliance, reduced threat not visible within IT asset inventory solutions, well as OS-based endpoints, provide a remediation and response time, and thus leading to blind spots and increased detailed asset inventory as well as related improved cybersecurity. exposure to cyber risk for the enterprise. software vulnerabilities. Preventing Lateral Movement of Qualys VMDR OT provides continuous With Qualys VMDR OT, security vulnerability assessments on all industrial practitioners are able to identify and **Cyber Threats** assets on a continuous basis. Hardware and manage vulnerabilities at all ICS/OT ICS/OT devices and applications are exposed to firmware-based vulnerabilities impacting endpoints, enabling zero-trust a rising number of vulnerabilities and targeted PLCs, IOs, Robots, HMIs, drives, etc. as well segmentation, targeted remediation, malware that can infect industrial networks as software vulnerabilities affecting SCADA and detailed compliance programs that via their connectivity to IoT and IT networks. servers, MES & ERPs systems and other reduce lateral movement of cyber 70% of vulnerabilities can be exploited without industrial applications are covered with threats between industrial applications, needing special privileges. Quays passive sensors, Qualys scanners, as well as between IT and OT Security practitioners must identify and isolate and optional cloud agents enabling security network environments vulnerabilities faster than ever before to practitioners to formulate zero-trust ensure the risk of malware lateral movement network access policies within ICS/OT is as low as possible. without effecting network performance. In addition to the Qualys Passive Sensor, With out-of-band assessment (OCA) Out of Band Vulnerability Monitoring this Out-of-Band Assessment (OCA) metadata, security practitioners can One of the greatest contributors to risk and function gathers additional asset inventory examine vulnerabilities and calculate network downtime comes from the human and vulnerability detection information. risk with greater context, thus improving factor within an ICS/OT environment. For With OCA, users can easily collect security policy implementation and example, misconfigurations may allow attackers metadata and configuration information lowering the potential contribution of to elevate permission to access and exploit from industrial devices; thus controlling human factors to cyber risk and critical infrastructure using ransomware for how, when, and what data is accessed potential downtime. example. Monitoring out-ofband vulnerabilities and by whom. is key to maintaining compliance and preventing cyber threats. VMDR OT can be combined with Qualys With Qualys Multi-Vector EDR, VMDR Integrating Endpoint Security for ICS/OT Multi-Vector EDR to provide ICS/OT OT unifies different context vectors For ICS/OT security practitioners, legacy security practitioners with behavioral like asset discovery, vulnerabilities and perimeter defense technologies have vast detection, threat intelligence, and machine exploits, misconfigurations, in-depth limitations for modern ICS/OT networks, leaving learning within their network environment endpoint telemetry, and network coverage security practitioners unable to identify insider with a powerful back end to correlate it to help identify important threats and threats and over-dependent on industrial IOCs related to SCADA & HMI Servers, all for accurate assessment, detection, firewalls. Therefore, endpoint detection and Engineering tools, Historians and other and response actions from a single agent, response (EDR) has become increasingly devices at supervisory levels. Qualys single platform, and single dashboard. relevant for ICS/OT, but integrating them is Multi-Vector EDR is a separate SKU. cumbersome, complex, and expensive. VMDR OT is continuously updated to Maintaining policy compliance and Policy Compliance for Industrial Assets monitor and enforce compliance with reporting are faster, more accurate, and Auditing policy compliance reports, especially the latest government regulations and less resource-intensive with Qualys VMDR within heavily regulated industries such as industry mandates with Qualys Policy OT. Reduce compliance audit time and power transmission and distribution and Compliance, which includes compliance costs with Qualys Policy Compliance, petrochemicals, is critically important for

monitoring for NERC CIP, IEC-62443, and

much more. Qualys Policy Compliance is

a separate SKU.

security and liability reasons. However, it is also

complex, time-consuming, and expensive.

allowing security operations to focus on

high-value security tasks.