

## Cylera for Medical Imaging Centers

# Advanced IoT Asset Intelligence and Security for Medical Imaging Centers

The easiest, most accurate, and extensible platform for medical imaging IoT asset intelligence and security.



### The Challenge

Medical imaging centers face an increasingly hostile cyber threat landscape. Sophisticated ransomware groups target imaging environments for their high value data, urgent care requirements, and fragmented security controls.

Imaging equipment such as MRI, CT, and X-ray systems lack endpoint protection and must remain continuously available, making them especially vulnerable to exploitation. Many legacy imaging modalities run on outdated operating systems with proprietary protocols that create monitoring blind spots for traditional IT security tools.

Generic IT security approaches demonstrate a lack of capability and fall far short when securing specialized medical imaging devices. These systems require clinical-grade visibility, behavior-based threat detection, and zero-disruption risk assessment that standard IT tools simply cannot provide.

### How Cylera Helps

The Cylera platform stands apart from other solutions by using patented technology to monitor medical imaging IoT and PACS systems with high fidelity to deliver unparalleled inventory, usage telemetry, threat prioritization, and remediation guidance. Medical imaging centers leverage the depth of our integrations, insights and understanding of clinical and IT/SOC workflows, unique policy generation, and customer-collaborated design to secure their connected imaging modalities without risk or disruption to diagnostic systems or patient care.

### Benefits

- ▶ **Enhanced Data Protection:** Safeguard sensitive patient imaging data and diagnostic information to reduce breach risk and protect patient privacy across imaging modalities and PACS systems.
- ▶ **Diagnostic Continuity & Resilience:** Proactively detect and contain threats targeting critical imaging systems to avoid downtime or disruptions that delay patient diagnoses and treatment decisions.
- ▶ **Cost Efficiency:** Optimize resource allocation and reduce financial losses tied to cyber incidents, ransomware attacks, or unplanned imaging system downtime while lowering regulatory penalty risk.
- ▶ **Improved Decision-Making:** Leverage advanced analytics to gain insights into modality utilization, device behavior, and risk posture, empowering IT and biomedical teams to make strategic security and operational decisions.

## Key Cylera Use Cases

- ▶ **Medical Imaging IoT Discovery & Inventory:** Know and share what, where, and operating state of your imaging modalities, PACS servers, and connected diagnostic equipment. Discover previously unknown devices on your network. Avoid time consuming, inaccurate, out-of-date, and incomplete IoT asset records.
- ▶ **Risk Management:** Gain operational awareness into imaging IoT devices and PACS systems across your network to improve your center's security posture. Reduce data breach, reputation, disruption, privacy, compliance, and expenditure risks.
- ▶ **Threat Response:** Reduce alert noise, pinpoint actual security issues, and streamline remediation to speed imaging IoT threat response. Response prioritization, triage context, and prescriptive remediation guidance enable teams to resolve issues faster and more easily.
- ▶ **Network Segmentation & Protection:** Prevent unauthorized access and quickly contain cyber threats with automated segmentation policy generation and integrations with firewall and NAC solutions. Detect and isolate risky imaging modalities and PACS systems that put patient data at risk.
- ▶ **Analytics & Reporting:** Capture comprehensive imaging IoT inventory, security, and usage data to improve security, optimize device procurement and management, and enhance diagnostic service delivery.
- ▶ **Compliance:** Obtain the imaging IoT visibility, inventory, risk, and threat management capabilities required to support audit and compliance requirements, including HIPAA and HITECH, HITRUST, and FDA Pre- and Post-Market cybersecurity guidance in the US.

## What Makes Cylera Unique



**Rapid Time-to-Value:** Easy to deploy, use, and expand usage backed by outcome-driven implementation and on-going engagement



**Smart Monitoring:** Real-time identification and classification of new and unknown imaging modalities, PACS systems, and diagnostic equipment without requiring other sources or retooling



**High Fidelity Intelligence:** Continuous, deep visibility into imaging IoT inventory, vulnerability, DICOM communications, and telemetry details



**True Risk Profiling:** Scoring model using broad context for highly accurate vulnerability and threat detection, risk assessment, and prioritization to reduce alert noise and remediation list



**Efficient Threat Mitigation:** Response prioritization, triage context, prescriptive remediation guidance, and segmentation policy generation help teams resolve issues faster and more easily



**Comprehensive Analytics:** Extensive imaging IoT asset operational data to facilitate compliance and audit-readiness, and to enable allocation, procurement, hygiene, and governance

Cylera provides the easiest, most accurate and extensible platform for healthcare IoT intelligence and security to optimize patient care, service availability, and cyber defenses across diverse connected medical device and healthcare environments. The Cylera platform accurately discovers, categorizes, assesses, and monitors known and unknown assets with high fidelity to deliver unparalleled asset inventory, usage telemetry, risk prioritization, analytics, and guided threat remediation. Cylera integrates with popular IT and healthcare systems to allow organizations to advance cyber program maturity, increase operational efficiency, mitigate cyber threats, and enable compliance readiness.



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