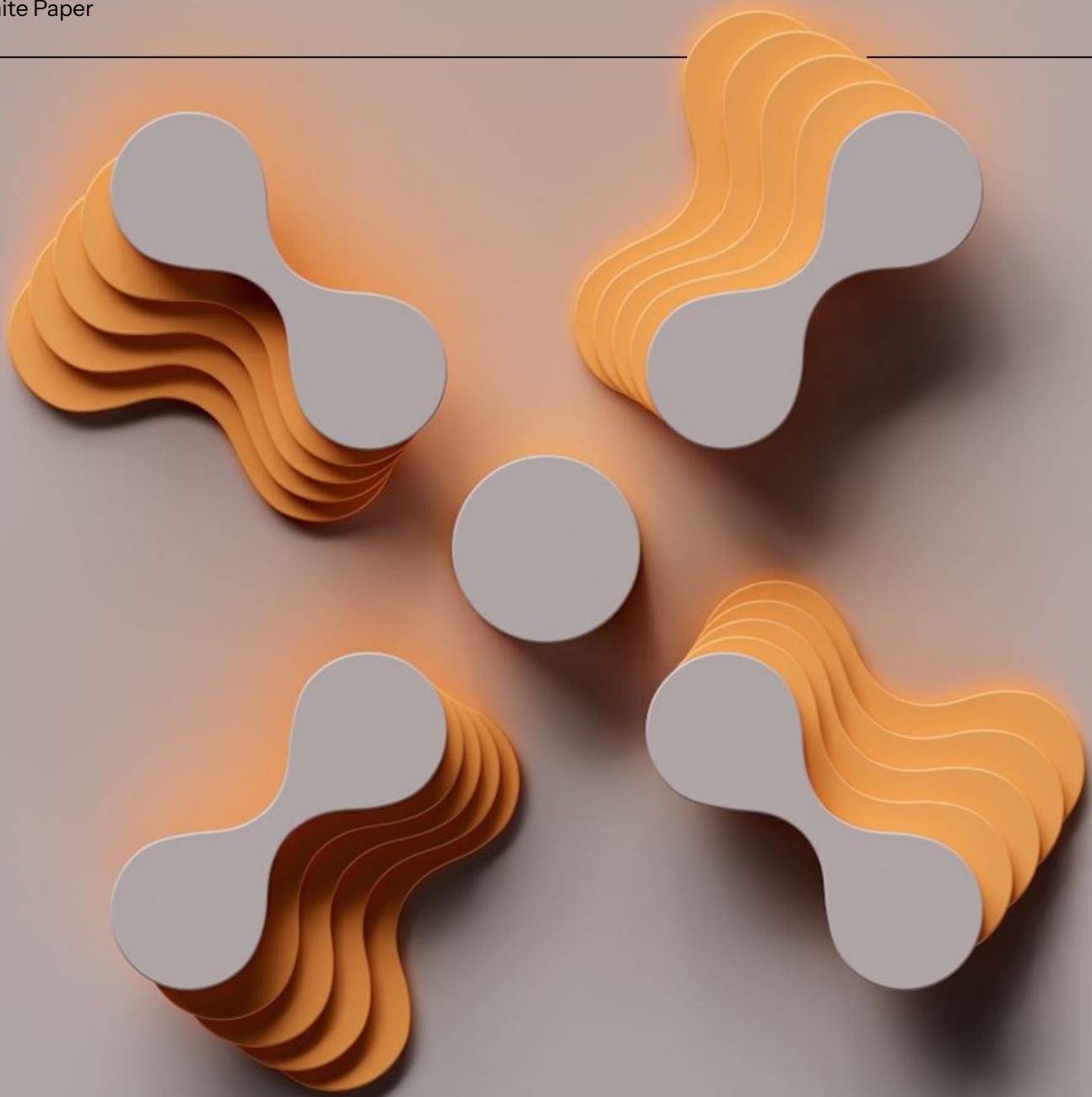# Axonius

Axonius for
Healthcare

Supporting HTM Teams through Smarter Equipment Utilization

White Paper

Introduction

Healthcare Technology Management (HTM) teams are the backbone of safe and reliable patient care. They maintain the pulse of every hospital, ensuring that life-saving medical equipment is available, functional, and compliant. But as healthcare becomes increasingly digital and connected, the responsibilities placed on these teams are outpacing their capacity to manage them.

Thousands of interconnected medical devices now share the same network as traditional IT and operational technology (OT) systems. From infusion pumps and imaging equipment to HVAC systems and elevators, every connected device represents both a clinical dependency and a potential security risk.

Axonius for Healthcare empowers HTM teams to meet this complexity with confidence. By combining passive asset discovery, utilization analytics, and integrated compliance support, the platform helps hospitals make smarter decisions about equipment maintenance, resource allocation, and patient safety.

With complete visibility, contextual insight, and actionable intelligence, Axonius for Healthcare turns data into direction, enabling HTM leaders to do more with less while keeping every device secure and operational.

Healthcare's Expanding Operational Challenge

Hospitals have always been complex ecosystems. But in the last decade, that complexity has multiplied exponentially. The modern hospital now operates as a cyber-physical environment, where every clinical, IT, and building management system is digitally connected.

While this connectivity improves care delivery, it also creates unprecedented challenges for HTM teams:

Explosive Device Growth

The average hospital now manages tens of thousands of network-connected devices, spanning clinical, IoT, and OT domains. Many are shared across departments or scattered across sprawling campuses

Manual Tracking and Maintenance

HTM teams rely on spreadsheets or siloed CMMS databases that are often outdated within weeks. This slows down preventive maintenance (PM) and makes alternative equipment maintenance (AEM) program justification difficult.

Limited Visibility

Biomedical teams struggle to identify what's on the network, how devices are being used, and where they are physically located.

Budget and Staffing Constraints

Technician shortages, supply chain issues, and rising operational costs leave teams with more work than resources.

Compliance Pressures

Regulations like HIPAA, HICP, and Joint Commission standards require accurate device tracking and documentation, but generating that evidence manually is time-consuming and error-prone.

The result: Reactive maintenance, rising costs, and operational inefficiencies that impact both compliance and patient care.

Unified Visibility: Seeing Every Device, Everywhere

HTM teams can't protect or maintain what they can't see. Axonius for Healthcare closes that gap by delivering unified, real-time visibility across every connected asset, medical, IoT, and OT.

Through passive network traffic analysis and deep device fingerprinting, the platform automatically identifies and classifies every device in the hospital environment. It detects and categorizes:

Medical devices
from infusion pumps and ventilators to imaging systems.

IoT devices
such as smart TVs, UPS systems, and connected infrastructure.

OT systems
including building automation, elevators, and HVAC controls.

Unlike legacy inventory tools that rely on manual entry or active scans, Axonius uses passive monitoring that captures rich metadata (firmware, OS, manufacturer, and communication protocols) without interrupting patient care or clinical workflows.

This visibility gives HTM teams the foundation they need to:

- Identify unmanaged or misplaced equipment in real time.
- Optimize preventive maintenance schedules based on actual device activity.
- Support compliance by maintaining a continuously accurate inventory of assets.

With this single, continuously updated source of truth, teams eliminate blind spots and gain the confidence to make data-backed maintenance and operational decisions.

Total Context: Turning Data Into Decisions

Visibility is only the first step. HTM leaders also need context, to understand how each device is used, its criticality to care delivery, and its operational health.

Axonius for Healthcare enriches every device record with clinical and operational context, including:

With this context, HTM teams can:

Utilization metrics
How often the device is active, idle, or offline

Plan smarter preventive maintenance
Schedule PM based on actual device usage and performance trends, not arbitrary time intervals.

Lifecycle information
Age, service history, warranty, recalls

Support AEM programs
Use evidence-based utilization data to justify reduced PM frequencies where appropriate.

Risk posture
Vulnerabilities, default credentials, outdated firmware

Inform capital planning
Identify underused or duplicate assets that can be redeployed or retired to reduce costs.

Regulatory attributes
FDA classifications, MDS2 data, manufacturer advisories

Improve vendor accountability
Benchmark service turnaround times and uptime metrics to evaluate third-party maintenance contracts.

By aligning operational and clinical context, Axonius transforms the role of HTM from maintenance management to strategic asset stewardship.

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Consistent Action:
From Insight to Impact

Data has little value unless it drives action. Axonius for Healthcare connects insight to enforcement through automated and repeatable workflows that help HTM teams act faster, with greater precision.

Streamlined Maintenance and Response

- Detect devices that have gone offline and notify technicians automatically.

- Identify low-use periods to schedule safe maintenance or software updates.

- Integrate utilization data directly into CMMS platforms like Medimizer, e-Quip, and Medusa for accurate maintenance planning.

Faster Collaboration Between Teams

- Bridge communication gaps between Biomed, IT, and Security using a shared view of all connected devices.

- Reduce downtime by enabling coordinated responses to device vulnerabilities or anomalies.

- Create automated playbooks to notify the right stakeholders when action is needed, without manual triage.

These capabilities reduce the burden on overstretched HTM teams while improving device uptime, operational efficiency, and overall patient safety.

Unified Compliance
Without the Back-and-Forth

Regulatory frameworks such as HIPAA, HICP, NIS2, and The Joint Commission all demand verifiable evidence that connected medical devices are being managed securely and maintained appropriately.

Axonius for Healthcare automates this process by linking maintenance activity, utilization data, and risk posture into one audit-ready platform.

Generate proof of PM completion in seconds.

Validate AEM programs with usage-based evidence.

Align maintenance and security records to demonstrate continuous compliance.

Instead of scrambling for records across spreadsheets, CMMS systems, and security logs, HTM teams can produce comprehensive reports that satisfy auditors and leadership alike.

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Strategic Consolidation: Aligning Biomed, IT, and Security

Historically, Biomed, IT, and Security teams have operated in silos, each managing separate systems and datasets. Axonius for Healthcare unifies these domains with a shared foundation of asset intelligence.

For Biomed
Continuous visibility into device health, location, and utilization.

For IT
Integration with network controllers (Cisco Prime, Aruba Airwave, ExtremeCloud IQ) for accurate device-to-access point mapping.

For Security
Device-specific vulnerability insights and segmentation recommendations to reduce attack surfaces.

This convergence helps healthcare organizations move toward a single, unified model of governance, where operational, clinical, and cybersecurity priorities are aligned under one platform.

The Results: Smarter Workflows, Safer Operations

Organizations that leverage Axonius for Healthcare report measurable improvements across their HTM operations:

30–40%
faster device location and retrieval for maintenance and recall management.

Significant reduction in rental and capital costs by redeploying underused assets.

Higher PM completion rates due to data-driven scheduling and prioritization.

Improved collaboration between Biomed, IT, and Security teams.

Fewer audit deficiencies through automated, evidence-backed reporting.

By providing a single source of truth for all connected medical devices, Axonius not only enhances efficiency but also strengthens the link between device management and patient care outcomes.

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The Future of HTM Is Actionable Intelligence

HTM teams are being asked to do more with less, to maintain safety, efficiency, and compliance across an increasingly connected landscape. The solution isn't just more data; it's smarter, more actionable insight.

Axonius for Healthcare gives biomedical and clinical engineering teams the visibility, context, and control they need to make informed decisions, reduce waste, and ensure the continuity of care. By integrating with existing CMMS platforms and providing real-time device intelligence, Axonius transforms HTM from a reactive function into a proactive enabler of operational excellence.

About Axonius for Healthcare

Axonius for Healthcare extends the Axonius platform to clinical environments, combining asset intelligence with healthcare-specific device visibility and risk management. Built for hospitals, labs, and health systems, it delivers real-time insight into medical, IoT, and OT devices, helping organizations strengthen security, optimize utilization,and ensure compliance across every connected environment.

Let's talk

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