



Modernizing Healthcare Infrastructure with DCIM



Data Center Infrastructure Management is Transforming Patient Care

In today's healthcare environment, where every second counts, the reliability and efficiency of infrastructure can directly impact patient outcomes. Hospitals rely on a complex web of technology—from imaging systems to IoT-enabled patient monitoring devices—to deliver life-saving care. But what happens when this infrastructure falters?

Enter **Data Center Infrastructure Management (DCIM)**, a game-changing solution that ensures healthcare facilities operate at peak performance, ensuring infrastructure reliability that underpins operational efficiency and supports patient safety.

The Role of DCIM in Healthcare

DCIM software is no longer just a tool for IT teams; it's a critical component of healthcare operations. By providing real-time visibility and control over the physical infrastructure that supports mission-critical systems, DCIM empowers hospitals to optimize performance, reduce costs, and improve patient care.

DCIM plays a vital role in healthcare environments by seamlessly monitoring power and cooling systems, monitoring IoT and facility-connected devices that support patient care delivery.





Centralized Monitoring and Visibility

DCIM provides a single pane of glass to monitor all physical and digital infrastructure, including:

- Servers, network equipment, power distribution units (PDUs), and environmental controls
- IoT devices
- Structured cabling, wireless access points, monitors the infrastructure supporting network and communication systems.
- Infrastructure located in MDF/IDF closets, such as UPS systems, generators, and HVAC

With real-time alerts for issues like power anomalies, temperature spikes, or device failures, DCIM enables hospital teams to identify and resolve problems before they escalate, ensuring uninterrupted care.

Resource Optimization and Planning

Hospitals face constant pressure to do more with less. DCIM helps:

- Optimize the use of servers, racks, and cooling systems
- Plan for capacity and growth based on equipment utilization trends and operational demand
- Reduce operational costs by tracking and managing energy consumption
- Eliminate over-provisioning and improve sustainability

This level of resource optimization is particularly crucial in high-stakes areas like emergency rooms, where even a minor delay can have life-altering consequences.



Device Lifecycle and Infrastructure Management

Managing the lifecycle of thousands of devices across a hospital is no small feat.

DCIM automates:

- Automates asset tracking and enables controlled power management for monitored devices
- DCIM supports compliance efforts by providing audit trails, asset visibility, and change documentation

Additionally, integrated power and cooling chain monitoring enhances resilience, reducing the risk of downtime in critical areas.

Integration with Healthcare IT Systems

One of the most powerful features of DCIM is its ability to integrate with existing healthcare IT systems like CRM, ERP, and CMMS. This integration allows hospitals to:

- OpenData offers API interfaces that can integrate with systems such as CMMS or ITSM to correlate infrastructure performance with operational events. These integrations enable teams to identify infrastructure-related contributors to service interruptions
- Improve response times to outages or disruptions in high-stakes areas like the ER or ICU

For example, if a server supporting the hospital's EHR system experiences a failure, DCIM can pinpoint the issue and provide actionable insights to restore functionality quickly, minimizing disruptions to patient care.



Benefits of DCIM for Healthcare Facilities

Improved Patient Safety

By ensuring the uptime and stability of the infrastructure that underpins clinical applications and smart devices, DCIM helps maintain the continuity of patient services and the reliability of care delivery systems.

Operational Efficiency

Centralized monitoring and real-time alerts reduce downtime and enhance device and network performance.

Cost Reduction

Energy and resource optimization across data centers, server rooms IDFs, and distributed IT assets lowers operational expenses.

Enhanced Security and Compliance

With better control over change management and asset usage, DCIM supports security and compliance initiatives by providing audit trails, asset visibility, and change documentation.

Future-Readiness

As healthcare facilities expand their use of IoT devices, telemedicine tools, and advanced diagnostics, DCIM provides scalable support to meet growing demands.

Why Choose Modius® OpenData® for Healthcare?

At Modius, we understand the unique challenges faced by healthcare facilities. That's why we developed OpenData, a purpose-built DCIM platform designed to unify operational technology and information technology into a single, integrated solution.

Unlike traditional DCIM tools, OpenData provides real-time visibility into infrastructure performance across power, cooling, environmental systems, and IT assets. Its seamless integration with legacy and new systems ensures that hospitals can scale their operations without disruption.

With hundreds of installations worldwide, Modius has a proven track record of helping mission-critical industries like healthcare optimize their infrastructure. Our platform empowers cross-functional teams with shared data, faster decision-making, and a clearer understanding of the full operational landscape.

Master Your Healthcare Infrastructure with Modius

In Healthcare, where reliability and performance are vital, DCIM is not optional. It is essential. With Modius OpenData, health care facilities gain the tools they need to take control of their infrastructure and meet the demands of a smarter, more connected world.

About Modius

What we do at Modius is straightforward.

Modius delivers real-time, scalable infrastructure management software purpose-built for critical facilities—from data centers to telecom, smart buildings, and beyond. Our flagship platform, OpenData, unifies operational and IT systems into a single pane of glass, empowering teams with actionable insights across power, cooling, environmental, and IT assets. By eliminating fragmented tools and enabling predictive analytics, capacity planning, and 3D visualization, Modius helps operators master both white and gray space with confidence.

Trusted by global leaders, our solutions drive uptime, efficiency, and ROI—don't just monitor your infrastructure, master it with Modius OpenData.