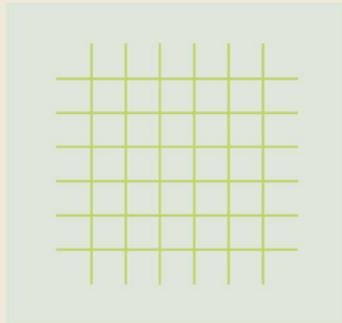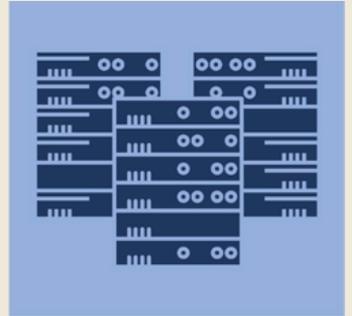# DESIGNED FOR WHAT'S AT STAKE

Monitoring and Management for Data Centers

RADIX®

The Challenge:
Everything is Connected - Except Your Data

Data centers are expanding faster than the tools meant to operate them - across geographies, vendors, architectures, and workloads. Hyperscale campuses. Edge containers. AI racks pushing 100kW. Liquid cooling and alternative energy sources are no longer experimental - they're operational realities. But as the footprint evolves, so does the fragility hiding inside it. Monitoring platforms can't talk to each other. Real-time telemetry is patchy or delayed. IT and OT remain siloed. Legacy systems coexist with modern hardware, duct-taped together by tribal knowledge and manual workarounds. Alarms fire constantly, but response is still reactive. The illusion of redundancy conceals brittle operations stretched thin by staffing shortages, rising ESG pressure, and inconsistent oversight. Without a centralized, real-time view across every site and system, scale becomes a liability and resilience becomes a myth.

- **Blind Spots Across a Mixed-Vendor Stack**

  BMS, DCIM, EPMS, and OEM tools each speak a different language, none of which give you full operational visibility.

- **Alarm Fatigue That Hides Real Failures**

  Thousands of daily alerts with no priority logic bury the critical few - burning team capacity and increasing downtime risk.

- **Siloed Teams, Fragmented Tools, Manual Recovery**

  IT and facilities operate in parallel, without shared systems, shared insight, or unified action when it matters most.

- **Monitoring That Can't Handle the Load**

  AI and high-density deployments demand high speed power and cooling telemetry that most platforms can't provide.

- **Compliance Expectations Without Clean Data**

  ESG metrics, audits, and executive reporting demand defensible data and most operators are still stuck in spreadsheets.

- **More Sites, Fewer People, Zero Room for Error**

  With lean teams, lights out operations and remote facilities, swift resolutions depend on real time information.

Modern infrastructure demands modern oversight. The next wave of data center growth won't be won by adding more platforms, more dashboards, or more headcount. It will be won by those who can see clearly across everything - past the vendor silos, beyond the false alarms, and into the real-time heartbeat of every system. If your operations can't keep up with your scale, fragility is already baked in.

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The Solution: mango

- ## Portfolio-Wide Oversight with Local Precision

  Mango gives you a single operational view across all sites, vendors, and systems. It adapts to each facility's unique infrastructure while enforcing consistent standards across the portfolio.

- ## Real-Time Telemetry for AI-Era Infrastructure

  Mango delivers high-frequency telemetry from power and cooling systems. You get actionable insight fast enough to manage the demands of AI-scale loads and dynamic conditions.

- ## Live Alerts That Drive Action

  Mango cuts through the noise and alerts on what matters. It connects directly to your workflow tools so teams can act immediately and consistently.

- ## Bridging IT and OT Without Forcing a Merger

  Mango integrates facility and compute infrastructure into a shared layer of visibility. Both IT and OT teams retain their tools while operating from the same source of truth.

- ## ESG + Strategic Intelligence, Baked In

  Mango continuously tracks key metrics like PUE, WUE, and carbon intensity. The result is clean, defensible data for reporting, audits, and smarter long-term planning.

- ## Beyond DCIM - Built to Outlast the Stack

  Mango connects legacy platforms with emerging technologies across modular builds and edge deployments. It becomes the stable layer that evolves with your infrastructure without needing replacement.

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mango

For Data Center Operations

Mango installs on either edge-based hardware (such as the Mango RD50 or a VM) or runs as a cloud-native service, providing a lightweight yet scalable operational layer for data centers. It supports over 40 protocols, like Modbus, MQTT, SNMP, BACnet, Rest & GRPC APIs, to normalize telemetry from legacy and modern systems into one unified platform. As AI-scale power densities, edge facilities, and high-speed energy sources overwhelm existing DCIM tools, Mango delivers high speed insight across all critical infrastructure supporting the facility. This unified visibility is essential for preventing blind spots, improving backup readiness, and ensuring SLA compliance at scale. Without it, data center teams are forced to operate reactively, making fragile infrastructure decisions and exposing operations to avoidable risk.

Built to solve challenges.

Beyond integration, Mango captures the operational knowledge that typically lives in the heads of experienced engineers, like how a specific UPS behaves under load, which alarms indicate true risk, or what to check first when a generator stalls. That insight is made visible, repeatable, and accessible across shifts, facilities, and teams. Mango also uses contextual logic by factoring in site topology, historical behavior, and external conditions such as weather or load patterns to filter out noise and surface only high-impact events. Teams act faster, with less guesswork, and without switching between dashboards or relying on radios and floor walks. Over time, Mango becomes the connective layer that ties infrastructure performance to operational readiness.

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Unified, Scalable, and Built for the Demands of Modern Data Centers
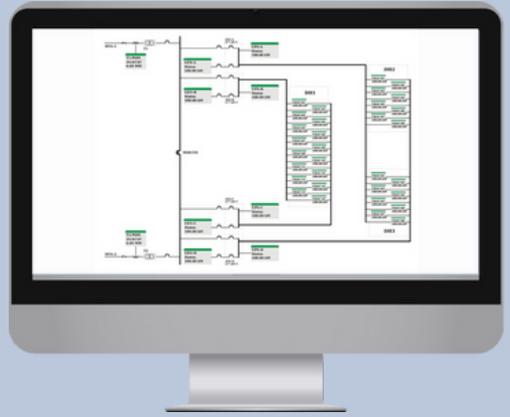
Multi-System Integration

Mango connects to your existing BMS, metering, and compliance systems using BACnet, Modbus, SNMP, APIs, and more, bringing all facility data into one centralized, real-time view.

Built for Complex Portfolios

Whether you're managing five sites or fifty, Mango helps you unify operations across decades of expansion and multiple vendors, standardizing visibility without needing to replace what already works.

Remote-Ready Operations

From any location, your team can monitor system health, identify root causes, and respond faster without system hopping or relying on radios, floor walks, or manual logs.

Contextual Intelligence

Mango filters alerts by location, impact, and priority and cuts through the noise - helping your team focus only on what matters. No more alarm fatigue, just clear, actionable insight.

Faster Deployment, Lower Overhead

Mango is easy to implement, lightweight, and designed to work with what you already have. It supports phased rollouts, minimizes IT burden, and delivers value quickly without disrupting day-to-day operations.

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mango Quantifiable ROI

43% **Faster resolution of power and cooling faults across live environments**

From UPS failovers to liquid cooling flow drops, Mango correlates telemetry across electrical and mechanical systems so data center teams can resolve incidents before they impact tenant workloads.

35% **Reduction in manual energy and carbon reporting across campuses**

With remote insight into breaker-level performance, battery health, chiller behavior, and thermal anomalies, NOC teams resolve issues without sending engineers to secure or geographically distant locations.

41% **Decrease in alert volume across multi-vendor infrastructure**

Mango filters events based on system criticality, equipment behavior, and rack location - reducing false positives and surfacing failures that threaten uptime or SLA tiers.

38% **Reduction in on-site dispatches across remote and edge sites**

Operators use Mango to track PUE, WUE, and carbon intensity continuously across colo and hyperscale footprints, simplifying ESG and procurement compliance with defensible, site-level data.

32% **Increase in uptime assurance across AI and high-density racks**

Mango monitors real-time power draw, exhaust temps, and airflow deltas to catch failure trends in dense zones before they cascade, ensuring SLA performance under compute-intensive loads.

RADIX ioT

mango Driving ROI

After implementing Mango by Radix IoT, a multi-site data center operator transformed how they monitor and manage infrastructure across backup generators, cooling systems, UPS arrays, and environmental controls. Previously, teams relied on siloed DCIM platforms, site-specific dashboards, and manual knowledge to keep operations online. With Mango, they unified telemetry from across sites and vendors, automated critical alerts, and gained real-time visibility into fault conditions and power events. Now, what used to take hours of system-hopping and guesswork is resolved in minutes, with fewer site visits, reduced downtime, and less pressure on an already lean facilities team.

Measurable System Gains

- **Rack-Level Thermal and Power Telemetry**
- **Generator and Battery Health Monitoring**
- **Remote Fault Diagnostics and Resolution**
- **Contextual Alarm Filtering**
- **Security and Environmental Monitoring**
- **ESG Reporting and Capacity Planning Insight**
- **SLA-Linked Fault and Outage Detection**
- **Utility and Submeter Integration**

In another case, a global colocation provider expanding across hybrid edge deployments faced mounting challenges with fragmented systems, inconsistent alarm logic, and limited insight into backup power and energy use. Mango helped them bridge that complexity by overlaying their existing infrastructure with a unified visibility layer. Today, their NOC teams resolve faults faster, reduce truck rolls, and manage more sites with fewer resources. Instead of relying on spreadsheets, radios, and delayed polling data, they now operate from a single, intuitive interface that scales with their infrastructure as demands increase.

RADIX IoT

Unified Insight for Every Rack, Site, and System.

Unlock the full potential of your data center operations.

Ready to streamline your operations? Discover how Mango by Radix IoT can boost uptime, cut costs, and scale your portfolio - contact us for a demo today.

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SCAN ME

RADIX®