

# LET'S TALK: DATA CENTER INFRASTRUCTURE MANAGEMENT

A guide to infrastructure that cuts downtime, energy waste, and chaos — so your data center runs smarter, safer, and stronger.



# ENGINEERED FOR ENVIRONMENTS THAT CANNOT FAIL

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**Think of us as the team that brings pharma-grade precision to your data center.** At InflexionPoint, we've spent years building and validating facilities management systems for some of the world's most regulated environments. We know what it takes to keep systems running flawlessly — and we bring that expertise to data centers.

When paired with Data Center Infrastructure Management (DCIM) platforms, building automation systems (BAS) become part of a larger ecosystem that unifies IT, power, and environmental data. Together, BAS and DCIM form a continuous feedback loop that keeps uptime high, energy use low, and every system aligned.

Here's what that means for you:

- **Uptime You Can Count On:** Designs proven in semiconductor fabs where downtime isn't an option.
- **Compliance Built In:** GxP, FDA, and EMA standards baked into documentation and validation.
- **Smarter, Leaner Operations:** BAS fine-tunes power, cooling, and conditions to cut costs and protect assets.
- **One Clear View:** Centralized monitoring keeps your team proactive, not reactive.

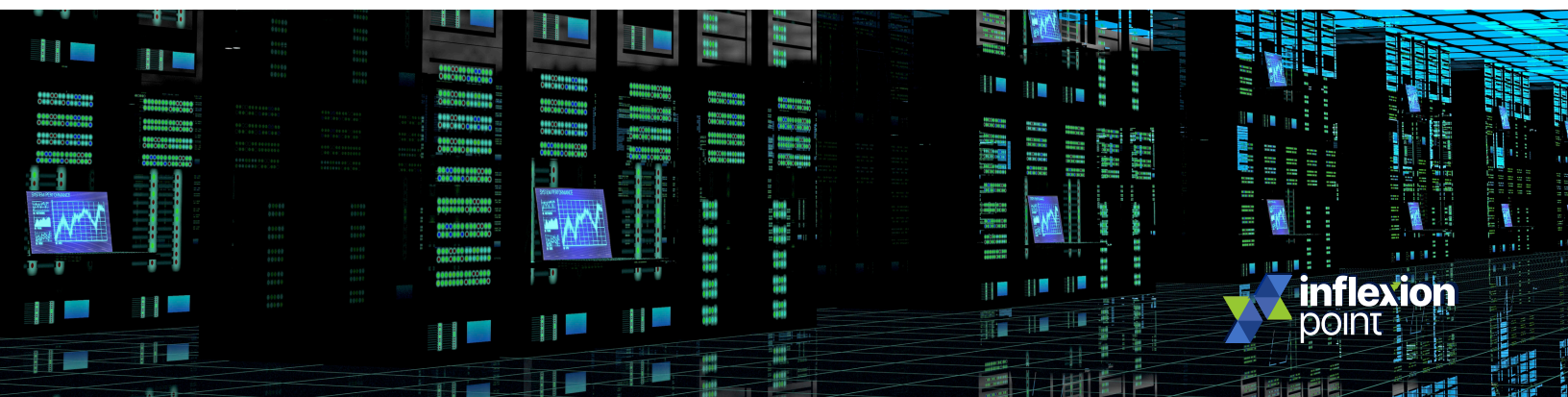


# Greater Visibility and Control

Uptime in your data center isn't just a nice-to-have — it's the currency of your business. And yet, many facilities still rely on siloed building systems, manual monitoring, and outdated practices that leave too much to chance.

Servers and networking gear often get the lion's share of investment, while the infrastructure that keeps those assets alive — power, cooling, airflow, humidity control — can be overlooked. A robust Building Automation System (BAS) changes that. Think of BAS as the bridge between IT and facility operations: one platform that pulls everything together, provides visibility in real time, and helps you make smarter, faster decisions.

Layer in DCIM, and that bridge becomes a two-way street — connecting environmental control with IT capacity planning and performance data. While BAS keeps your physical infrastructure optimized, DCIM provides the IT layer of oversight — tracking server loads, rack density, and network capacity. Together they form a living digital twin of your facility, where every decision is informed by both environmental and compute data.



# The **Hidden** Costs of Operating Without BAS

Not every data center risk shows up as a flashing red light. Some just creep in — higher utility bills, longer response times, missed warning signs — until one day it's clear you've been running a mission-critical facility on luck and duct tape.

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**If you're running a data center without a unified DCIM and BAS, the costs aren't always obvious — but they add up fast:**

## 1. Energy Inefficiencies That Snowball

Without real-time control, HVAC and lighting often run at full power during low-load periods — wasting thousands, even millions, in operating costs each year.

## 2. Downtime Risk from Blind Spots

When building systems run in silos, early failure signs are easy to miss. Without predictive alerts, outages hit harder, cost more, and damage SLAs and trust.

## 3. Reactive Maintenance = Higher Costs

Scheduled maintenance and emergency fixes are expensive and disruptive. BAS enables condition-based maintenance, cutting costs and keeping equipment running longer.



## 4. Staff Inefficiency

Manual monitoring means wasted time. Operators can spend hours chasing alarms or coordinating across systems, instead of focusing on higher-value work.

## 5. Missed Sustainability Incentives

Many regions offer rebates, credits, or compliance benefits for energy efficiency. Without BAS data to prove savings, those opportunities disappear.

## 6. Integration Barriers

Expanding your data center or adding new technology is harder without a centralized platform. BAS provides a scalable backbone for growth — and DCIM extends that visibility to the IT layer, so every expansion is planned and balanced.

## 7. Security Gaps

Physical security systems like access control and surveillance often sit outside IT workflows. BAS brings them into the fold for better, faster threat detection and response.

### Bottom Line:

Running without BAS isn't just inefficient — it's risky. These costs aren't always visible on a balance sheet, but they show up in rising energy spend, downtime incidents, and missed opportunities.

# Why Energy Efficiency Should Deliver ROI You Can Actually Measure

A BAS is more than a technology upgrade — it's a strategic investment. In a world where uptime is currency and energy is one of your largest costs, a well-implemented BAS quickly pays for itself while reducing risk and building resilience.

## **Cut Energy Costs Dramatically**

Most data centers see a 10–30% reduction in energy use, turning HVAC, lighting, and load optimization into six-figure annual savings.

## **Downtime Prevention That Pays Off**

Outages cost \$10,000+ per minute — and the damage to your reputation is even worse. BAS predictive monitoring keeps you ahead of problems before they become disasters.

## **Smarter Maintenance, Longer Equipment Life**

Condition-based maintenance eliminates wasted service calls and keeps equipment running longer, reducing both costs and stress.

## **Compliance and ESG Made Simple**

Built-in data integrity and audit trails save hours of prep time while providing proof of environmental performance for stakeholders. When integrated with DCIM, those metrics become even more powerful — tying energy performance directly to IT efficiency, workload balancing, and uptime reliability. That's how leading operators justify sustainability and expansion projects with data that speaks both facilities and business.

## The Cost of Waiting is Higher Than You Think

Every data center leader is under pressure to do more with less — more uptime, more efficiency, more compliance — while budgets and staff stay tight. Building Automation Systems aren't just a convenience; they're the backbone of a truly resilient operation.

Without BAS, you're relying on siloed systems, manual monitoring, and reactive maintenance — an expensive gamble in an industry where minutes of downtime can cost millions.

With BAS and DCIM working together, you gain a nervous system for your entire facility: one that predicts issues before they happen, optimizes energy use, keeps auditors happy, and scales with your growth.





## WHY WORK WITH US:

- **We bring pharma-grade rigor**  
Our expertise comes from regulated, mission-critical environments, applied to your data center.
  - **We design for growth.**  
From edge computing to enterprise expansions, your BAS will scale with your vision.
  - **We stick around.**  
From system setup to staff training and ongoing coaching, we make sure you get results.
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## HOW TO GET STARTED:

- **Book a BAS Strategy Session.**  
Let's review your current building systems and identify the fastest wins.
- **Request a BAS Readiness Review**  
Find out where your operations stand right now.
- **Talk to Our Experts**  
Have questions? Let's discuss how we can help.



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LET'S TALK:

# **BUILDING AUTOMATION SYSTEMS**