



Beyond Detection. Automated Optimization.

Kaizen ASO: Your Persistent Digital Engineer for Peak Building Performance



CopperTree
Analytics



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eBrain Innovations is a CopperTree Analytics Authorised Partner

Why Buildings Drift from **Peak Performance**

Your building was designed for **efficiency**, but operational reality often gets in the way. The challenge of maintaining **optimal efficiency** is constant and complex.

Setpoint Creep & Overrides

Temporary adjustments made during extreme weather or service calls often become permanent, leading to significant energy waste over time. These small changes accumulate into major inefficiencies.

Static Schedules vs. Dynamic Loads

Fixed schedules and setpoints can't adapt to changing occupancy, weather, or utility signals, missing countless opportunities for optimization. Your building needs to be as dynamic as your operations.

Manual Tuning is Impossible

Continuously monitoring and retuning hundreds of setpoints across complex HVAC systems is simply beyond the capacity of even the best facility teams. The scale and complexity demand automation.

The Result: A slow, inevitable drift towards inefficiency, higher energy costs, and compromised comfort, the "Performance Gap" widens with every passing day.

Introducing **Kaizen ASO**

Kaizen ASO closes the loop between finding inefficiencies (**with FDD**) and automatically correcting them, acting as an intelligent supervisory control layer for your BAS. This is **continuous commissioning** reimagined, **automated, persistent, and standards-based**.



Detect & Quantify (via FDD)

#1

Our standards-based Fault Detection identifies inefficiencies and optimization opportunities in real-time, such as potential for setpoint reset, equipment staging issues, or economizer optimization. Every opportunity is quantified with energy impact.

Calculate Optimal Setpoint

#2

The ASO engine calculates the ideal setpoint in real-time based on proven strategies like ASHRAE Guideline 36 (Trim & Respond, Demand Controlled Ventilation). These aren't theoretical 3 they're engineered best practices implemented automatically.



Securely Write Command

#3

ASO sends the optimized command directly to your BAS via secure, native BACnet#, using low-priority writes (Priority 16) for safety and operator control. Your team always maintains ultimate authority, manual overrides take precedence instantly.

Verify & Repeat

#4

The platform continuously monitors performance to verify the positive impact and repeats the cycle 24/7, ensuring persistent optimization. This creates a continuous improvement loop that never sleeps, never forgets, and never stops optimizing.





Unlock Persistent Performance. **Maximize** Asset Value.

Kaizen ASO ensures your building operates at its peak potential, day after day, delivering tangible financial and operational benefits. This isn't a one-time tune-up, it's **continuous excellence, automatically maintained.**

- Maximize Energy Savings
- Enhance Occupant Comfort
- Improve Grid Resilience
- Reduce Manual Effort
- Ensure Design Intent

Want to learn more? Reach out to our Authorised Partner
[eBrain Innovations](#)

GET IN TOUCH

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