



**EkkoSoft® Critical**  
MONITOR MANAGE MAXIMIZE

# Risk Avoidance



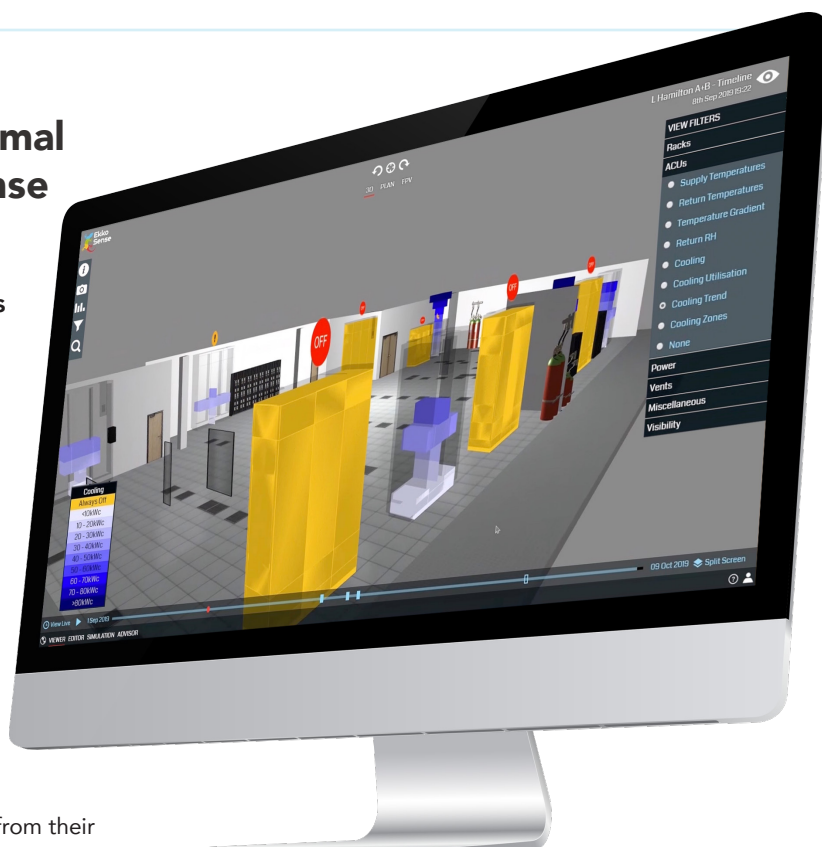
## Remove Data Center Thermal Risk entirely with EkkoSense

With thermal issues ranking as the second largest cause of data center loss of service, it's critical for organizations to reduce risk by optimizing thermal performance.





Data center teams continue to rely on BMS systems to highlight thermal risk or hedge against potential problems by routinely over-cooling their facilities. This outdated approach doesn't address the issue and almost all data centers are not 100% ASHRAE thermally compliant.

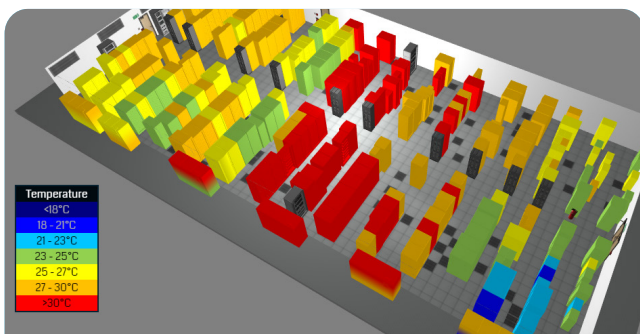
EkkoSense's distinctive blend of innovative low-cost Internet of Things (IoT) sensors, immersive 3D SaaS visualization/analytics software and PhD-level thermodynamics expertise combines to resolve this challenge – helping organizations to **minimize thermal risk** from their data center operations.

EkkoSoft® Critical software highlights thermal issues and warns of potential problems well before traditional BMS systems can, providing valuable time to address the root cause and preventing facility downtime.



### Risk Avoidance benefits include:

-  100% thermal risk removal – EkkoSoft Critical ensures 100% rack-level ASHRAE (or SLA) thermal compliance, protecting your critical environment from thermal risk
-  Enable condition based monitoring. With EkkoSense unique cooling unit performance monitoring, you can move away from complex, ineffective and expensive maintenance schedules
-  Tracking cooling performance in order to identify, diagnose and remove fault before any BMS system is aware of a problem
-  Eliminating thermal hotspots for improved resilience – with EkkoSoft Critical you can gain early insight into granular thermal and cooling changes before they become critical and cause potential SLA breaches



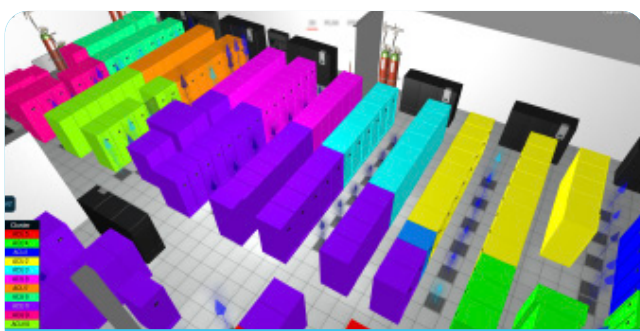
### Predicting Potential Thermal Issues in Advance

Unlike traditional BMS approaches that only generate alerts when a system has failed, EkkoSense's blend of highly granular sensing and EkkoSoft Critical real-time algorithms can highlight potential equipment failures before they have a chance to impact data center service availability.



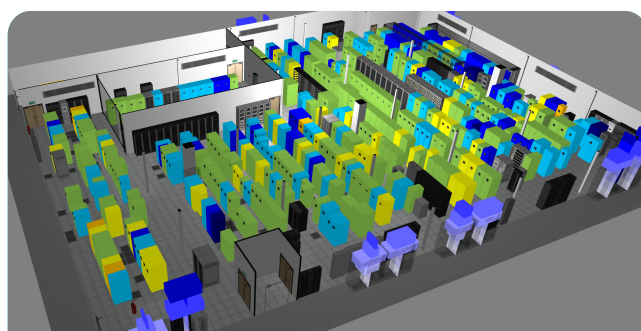
### Live 3D Views Support Real-Time Thermal Decision-Making

EkkoSoft Critical's powerful 3D visualization capabilities provide an intuitive real-time view of your data center's cooling performance, enabling operations teams to immediately identify emerging hotspots as they occur anywhere across your extended estate.



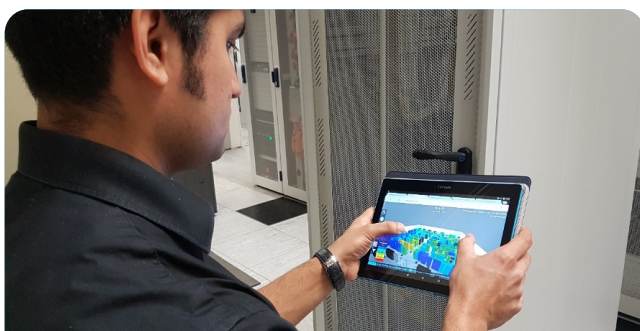
### Improved Resiliency with Zone-by-Zone Cooling Analytics

Powerful EkkoSoft Critical Zone-by-Zone Cooling Analytics help identify hotspots and provide insights on cooling effects to support improved resiliency and smarter capacity planning decisions.



### Achieving new levels of Sensing Granularity

Deploying EkkoSense sensors at rack-level and applying EkkoAir cooling duty sensors allow organizations to track data center cooling loads precisely, enabling the identification of previously undetected cooling unit faults.



### Upsite Cooling Optimization Services

Upsite Technologies offers a suite of expert airflow management and cooling optimization services that support EkkoSoft Critical deployments to carry out thermal optimization activities that remove risk and save cooling energy.

In addition to removing thermal risk, Upsite Services can deliver 25% cooling energy savings when engaged.



### Remote Thermal Monitoring and NOC Capability

EkkoSense can also provide a remote 'eyes on glass' service to monitor your sites thermal performance, providing the ultimate peace of mind. This can spot thermal issues with individual server racks or cooling unit performance, long before they turn into service impacting issues.