Integrated Data Center Management (IDCM)

Reduce Costs, Improve Uptime, and Gain Better Visibility

Integrated Data Center Management (IDCM) offers the next level of insight and control for today's complex computing infrastructure. IDCM tightly integrates the different systems within a data center in new and unique ways for energy savings, reduced costs and improved resiliency. Automated Logic and Nlyte are proven data center solution providers, partnering to deliver the broad and unique value of IDCM.

Data centers have never been more vital or central to business operations, yet they need to be more efficient, resilient and flexible. These goals are best achieved by tightly integrating the critical infrastructure (power, cooling, monitoring and the building itself) with IT equipment and applications. Data centers are unlike other building types in that they are greatly and dynamically influenced by the behavior of the systems running within them. IDCM integrates these numerous systems, from buildings to virtualization, to provide greater efficiency, streamlined management and improved insight.

WebCTRL®

Building Automation System

Nlyte® Software

IDCM Benefits

By uniquely integrating the critical infrastructure and workload end points in a data center, IDCM provides numerous unique benefits:

- Improved efficiency of power and cooling utilization by enabling critical infrastructure to track with application behavior, such as idle periods or reduced loads
- Improved productivity of facility and IT personnel as the effects of changes or maintenance are predicted and proactively addressed, within the computing environment
- Reduced risk of outages or breaches due to poor capacity or asset management processes
- Improved resiliency and efficiency by including critical infrastructure in simulation software for planning, operations optimization and failure scenarios

Requirements

- Secure data integration between WebCTRL® building automation system and Nlyte Software
- WebCTRL data points required for applicable use cases are configured as part of the secure integration. Typical data points include information from CRAC units, chillers, pumps, UPSs, and generators.

IDCM Use Cases

Better Capacity Management

- Workload visibility across IT and facilities
- Auto-allocation of assets based on security policies
- Auto-allocation of assets to available power/cooling

Reduced Costs & Energy Utilization

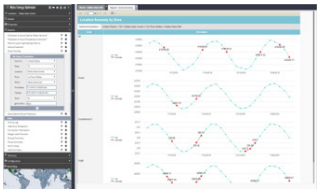
- Cooling based on the needs of affected assets
- End-to-end energy prediction and optimization

Improved Uptime

- Power anomaly workflows minimize customer outages
- Security issue workflows automate risk mitigation
- Specific events directed to available cooling capacity
- Rich analytics enable proactive issue resolution

Integrated Data Center Management

WebCTRL® NIyte Software



Better Together

End-to-End Operations Management

- Power chain mapping, alarming, and alerting (utility to IT gear), to pre-empt failure
- Automated facilities maintenance, power anomaly and security breach response workflows
- Mapping of power and cooling chains to identify affected workloads

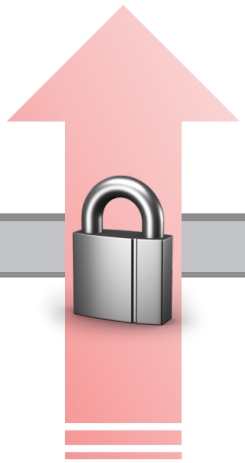
Better Capacity Management

- Auto-allocation of IT assets based on available power/thermal and security policies
- Integrated workflows across IT and Facilities, with dashboards and reports

Optimized Energy Efficiency

- Aligning workload execution with critical infrastructue resource utilization
- Predicting cooling requirements to ease change management practices

NIyte Software

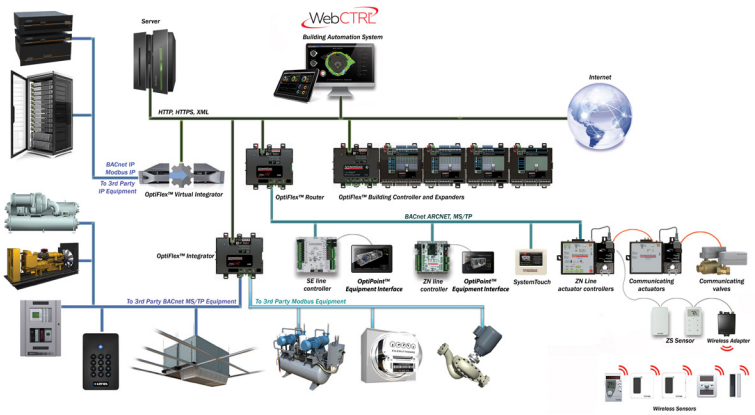


Secure Data Integration

WebCTRL®

Building Automation System

(Data from CRACs, chillers, pumps, UPSs, generators, etc..)



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Automated Logic

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Next level building automation engineered to help you make smart decisions.