

Life Is On

Schneider
Electric

Managing data centers beyond IT

Facility management powered by StruxureWare Building
Operation for Data Centers

schneider-electric.com/dcim

Converged IT and Facilities

Data centers are more than just the information that flows through them. They are complex operation facilities and today's data center managers are challenged to move beyond the management of the IT environment to management of the entire building.

At the same time, data center facilities have different needs than other buildings and require a solution that surpasses the general necessity to control and monitor energy, lighting, fire safety, and commercial HVAC. There are the additional requirements of redundant chilled water plants and integration with power distribution and generators among other things.

This unique combination of systems and subsystems means data centers call for:

- **Simplicity:** Customized granular reporting resulting in trending of PUE, unified alarm management and escalation, multiple systems views
- **Flexibility:** An open protocol to integrate with third-party equipment and pre-existing solutions
- **Reliability:** Certainty that every aspect of the infrastructure's performance is continually being monitored and managed for uptime
- **Visibility:** A unified view of crucial information across the entire data center
- **Scalability:** A standard process to replicate approaches across multiple facilities; a precise way to measure capacity and plan for change

StruxureWare™ Building Operation for Data Centers solves all these challenges.

Experts who understand your pain points

Data center complexity creates the need for specialization. StruxureWare Building Operation isn't just a software tool, it comes backed by a team of experts at Schneider Electric with a wealth of experience and resources, including:

- Dedicated Data Center Solutions Group
- Access to the Schneider Electric knowledge base in Building Operations, Power Monitoring, and DCIM
- Established solutions standards for repeatability across multiple data center facilities — nationally and globally
- Engineers dedicated to integration and customization

Manage holistically

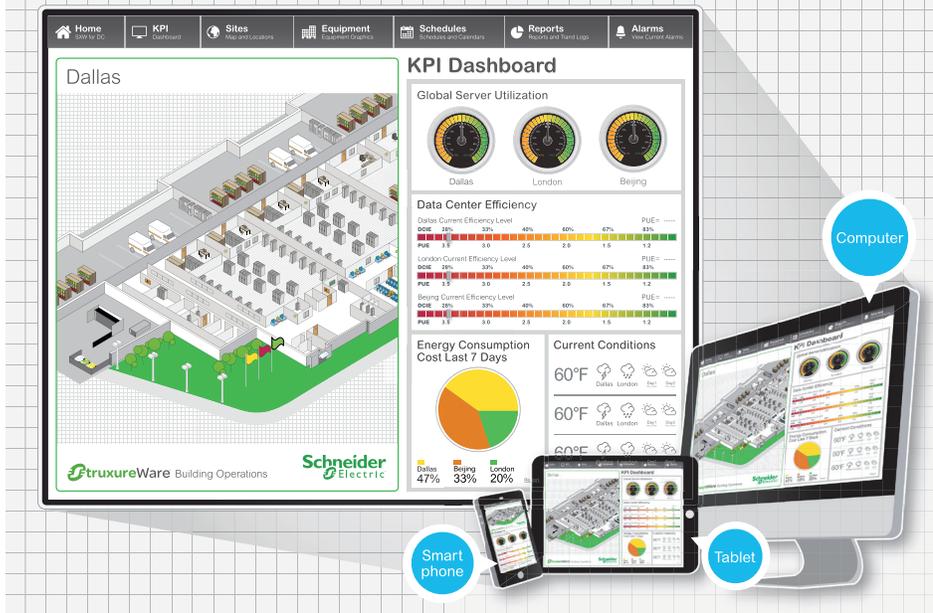
The unique combination of data center infrastructure, IT equipment, safety, and security in an ever-changing environment creates a perfect storm for data center managers in charge of facilities.

Schneider Electric StruxureWare integrated software suite provides complete visibility from the building level to the servers — whether metering, environmental monitoring, and security solutions for power, cooling, and IT room. Data center managers can reduce energy consumption, protect system uptime, and improve planning and operational performance throughout the data center life cycle.

StruxureWare for Data Centers enables you to holistically monitor and control all the domains in your data center, to inform and enable IT operations within both the gray and the white space.



Access information via all of your devices



Increase efficiency

Efficiency is a broad term and can be classified into three categories within a data center:

1. Installation efficiencies

- Easily integrate systems and third-party devices into a single system with one view for streamlined operations
- Custom integration to third-party systems through the development of APIs and ETLs

2. Connectivity

- Native support for BACnet™, LON®, modbus, Web services
- For those seeking to optimize energy efficiencies across multiple domains of their business, StruxureWare Building Operation integrates seamlessly with other Schneider Electric™ solutions to form an EcoStruxure™ architecture

3. Operational efficiencies

- Monitor power conditions under critical and noncritical loads
- Establish cooling efficiency through strict control and optimization of mechanical sequences
- Access automated tools for increased visibility and validation

Improve uptime and reduce risks

- Monitor and analyze data across critical facilities
- Establish alerts to threatening conditions to react before impact
- Monitor and authorize who enters the data center to mitigate damaged equipment and facility downtime due to physical security breaches

Centralized management and analysis

- StruxureWare Building Operation collects information from multiple devices to deliver valuable business information at the management level
- Anytime, anywhere, instant access via any Web-enabled device
- Gain insight and control over multiple locations, including dark data center facilities
- Out-of-the-box dashboards, reports, alarms, and drill-down capability
- Develop custom reports to share important information based on stakeholder needs

Predict capacity and plan for growth

- Model facilities based on the needs of IT capacity
- Identify optimal physical infrastructure
- Provide real-time measurements of energy consumption and water flows to plan future adjustments
- Add solution sets incrementally as needed

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May 2016

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998-19736899_US

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