



Increase data center uptime while decreasing costs

Why not have it all?

Data Center
Building Management Solutions

Schneider
Electric



Keep your data center and your customers from overheating

Balance your ever-increasing power needs

with the pressure to keep your budget in check

Managing a data center can be challenging. You are often tasked with balancing the need for electrical power with the pressure to reduce costs.

To avoid overheating, cooling infrastructures are needed to protect your data center assets and maintain continuous uptime. In addition, the vast amounts of real-time, unstructured data generated can be difficult to interpret. This can lead to human errors, downtime and the inability to meet your customers' Service Level Agreements.

How can you respond to these challenges? By choosing the right partner that can help you strike the perfect balance among your competing demands. Schneider Electric helps data centers around the world monitor, integrate and manage their data. We then turn that data into actionable alarms, displays and reports that facilitate better decision-making. As a result, you benefit from reduced operating costs, thanks to reduced cooling and energy consumption. Plus, you improve operational uptime and increase employee productivity.



// We conducted a strenuous selection process, looking at all the suppliers. Schneider Electric provided the greatest degree of flexibility to address our multi-tenant applications. International expansion goals for Digital Realty Trust include Schneider Electric as a key partner to guarantee high-performance capacity and profitability of our facilities. //

— Ted Martin, VP Operations,
Digital Realty Trust



Deliver data center uptime more of the time

Data center downtime is catastrophic. It leads to lost transactions, corrupted server data, network traffic disruptions, unavailable hosted applications, financial losses, plus unhappy and lost customers.

Consider how much money per minute a large international brokerage firm would lose if customer trades couldn't be executed. How much revenue would Amazon.com lose if their data center was down for several hours? How much money would be lost in click-through advertising if search engines like Google™ were unavailable?

To avoid downtime, you need Schneider Electric's experience and reliable solutions. Our systems monitor, collect, integrate, and display real-time data in a single frame, so that data center managers can access and analyze it quickly, and avoid potential problems. Operators and management are alerted immediately in the event of a potential or real failure. In so doing, you meet the expectations of your customers and your executives. Our systems will help keep your applications running 24/7/365. When your data center is this reliable, it lowers your total cost of ownership, and allows you to focus on improved performance and disaster avoidance, instead of disaster recovery.



Make the most of your energy

and still reduce costs

Cooling IT gear typically consumes 50% of a data center's power use. Effectively managing the heat load minimizes the risk of downtime and manages energy costs. How can you do this?

Choose Schneider Electric as your building management systems partner. We help you answer your most pressing energy-efficiency questions— How much power am I using? What IT services are costing me the most in power consumption? How can I turn the power down when the IT load decreases? How much money can I save?

Our electrical power monitoring systems and APC's critical power and cooling systems for the IT space help your company become more energy-efficient, immediately. One single management system for a data center's physical infrastructure delivers a common view of energy, enabling data center management to tie energy into the service management of IT assets. We collect and analyze key power consumption data, temperature and humidity in real time, and automatically adjust cooling and lighting.

In addition, Schneider Electric's system has secure web portals, so that you can access reports on power quality, personnel access, and critical alarm history more easily and securely—even from remote locations. With us, you not only improve your bottom line; you also make information more accessible.



★ Success story

Schneider Electric is a key solutions provider for the Switch® SUPERNAP data center in Las Vegas, NV, which opened in Fall, 2008. Schneider's innovative solutions allow the SUPERNAP to run 95% efficient at half-load, saving Switch several million dollars a year in electricity cost, and allowing them to grow their data center modularly as they acquire more customers. Schneider Electric's data center solutions for Switch include building management, electrical distribution and power monitoring (Square D), video security (Pelco), and white space solutions (APC).

95% efficiency at half-load

100% uptime guaranteed by SUPERNAP

Protect your data, your facility, and your reputation

We'll show you how

Schneider Electric's access control solutions allow you to monitor and authorize who enters your data center, to prevent security breaches and sabotage that can result in lost data, damaged equipment, and downtime.



Our biometric, card, and keypad access systems keep unauthorized people out of your data center building. You can restrict access by assigning role-based privileges, setting schedules, and using temporary access codes.

Schneider Electric and Pelco's state-of-the-art video surveillance and analysis technology further protect a data center's most important assets. Under the watchful eye of Pelco cameras, video analytic software examines a camera's field-of-view for patterns of movement that match abnormal real-life events, like left items, fence-climbing, lurking, and jumping trip lines. Alarms alert security staff immediately when any of these patterns occur. This allows security to focus on unusual events, rather than on all events simultaneously.

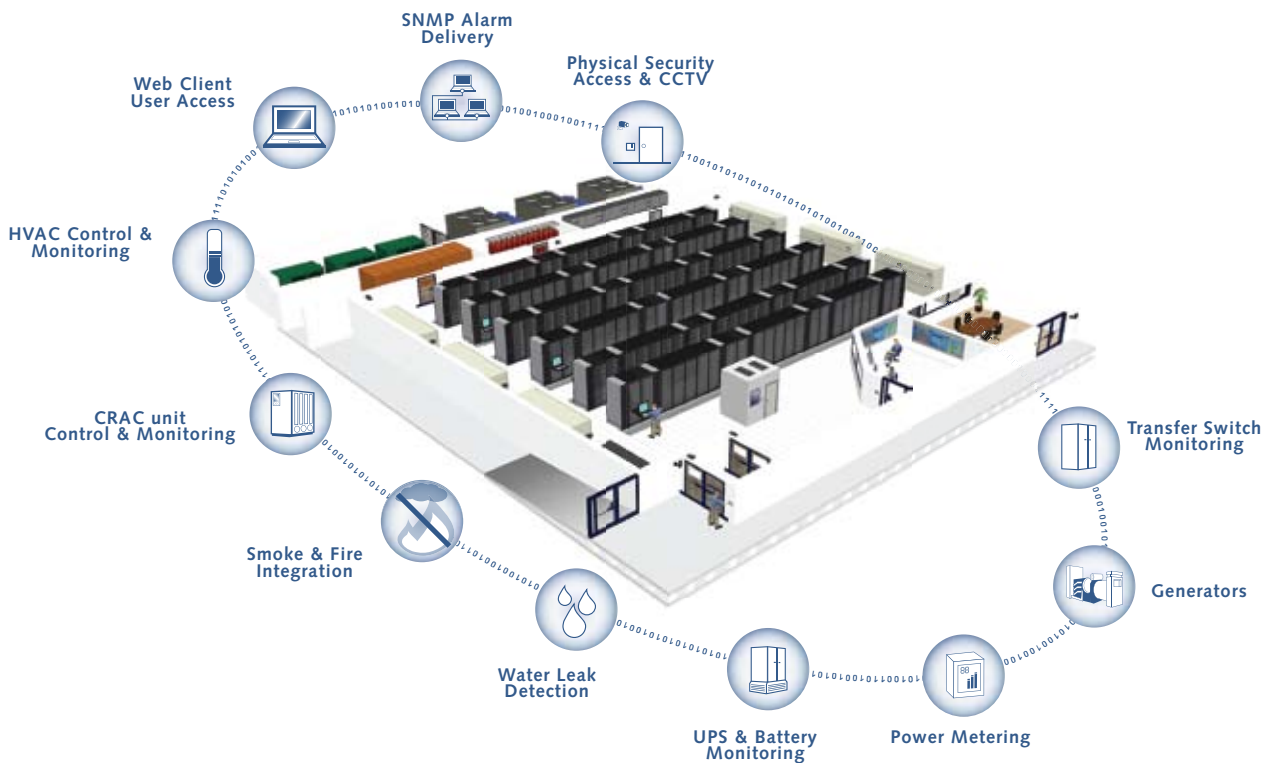
By integrating your security and life safety systems with your building management system, you can reduce installation and operating costs significantly, and control your entire facility via a single set of networked workstations. With this single browser interface, you can manage diverse building functions, such as environmental and access controls, power reliability and quality, video security, and alarms.



★ Success story

Digital Realty Trust's data center in Dublin, Ireland is a hardened, state-of-the-art facility protected by Schneider Electric and Pelco security solutions. This new energy efficient data center provides mission critical IT infrastructure to eircom, the country's leading broadband provider. Motion detection sensors, access controllers, biometric readers, and fixed cameras provide fail-safe access control to the data center's doors and suites. Pelco's video security system with IP cameras and recorders keeps a watchful eye with active surveillance 24/7 on the facility's exterior and sensitive areas. Security personnel use the Identify, Observe, and Understand (IOU) methodology to include constant monitoring, camera use for detection, and video recordings for investigations.

Integration



Built to work together

24/7/365

Integrated and energy-efficient systems are essential to maintaining data center reliability and security.

Schneider Electric's intelligent building management system combines simplicity, scalability, and flexibility. With it, you can monitor and integrate all your data points relating to power usage, cooling, white space, backup power systems, lighting, climate, security, and third-party equipment. This enables you to address problems before they arise and avoid downtime.

With new government regulations calling for reduced power usage and carbon emissions,

measuring and improving data center efficiency is a key concern. By integrating the entire facility, your data center personnel can track Power Usage Effectiveness and its reciprocal Data Center Infrastructure Efficiency—key measures of operational efficiency—in real time. Schneider Electric also makes it possible to tie operational alarms into your Computerized Maintenance Management System, so you can schedule maintenance on aging equipment and prevent costly downtime.



As the largest third-party owner of technology-related real estate, Digital Realty Trust acquires, manages, and builds mission critical communication and data center facilities for tenants such as Amazon.com, British Petroleum, and Yahoo!®. Digital Realty Trust chose Schneider Electric to meet their unique needs. Our precision temperature and air flow control systems keep servers running at maximum efficiency and our efficient BMS integrates easily with their building and access control systems.

// We update and refine the system regularly and Schneider Electric's ability to adapt to change is very important. //

— Ted Martin, VP Operations,
Digital Realty Trust

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