
▶ enteliWEB

Enterprise Facility and Energy Management Software



The Problem

Your Building Automation System is growing in size and complexity. From multiple university campuses and school boards, to multi-tenant commercial buildings and hospital groups. Add to that the integration of HVAC, lighting, access, energy management and other facility systems.

- How do you manage a network that big?
- How do you effectively visualize the important data from all those buildings?

enteliWEB is the solution

enteliWEB gives you a complete view of your building operations

enteliWEB gives you a single management solution

enteliWEB effortlessly connects to all your facilities under one login. Bringing all your buildings, systems and energy analysis under one facility management umbrella saves engineering and maintenance time. Connected systems simply allow operators to work more efficiently.

enteliWEB helps you make sense of data easily and quickly

- Enterprise dashboards allow Facility Managers to quickly evaluate their systems based on KPIs.
- Personal dashboards provide an easy way for operators to view the building the way they want.
- System dashboards provide a much richer experience than graphics alone, by combining operational views such as graphics, alarms, point lists, charts and other tools all on one page.



How enteliWEB will help you

- Manage multiple sites from a single login. No need to worry about duplicate addresses or networking everything together. All you need is an IP address for each site.
- Manage integrated HVAC, lighting, energy and other systems with one operator workstation.
- Alarm Management is designed to quickly and efficiently manage alarms from different sites.
- Dashboards provide simple visual summaries of facility information that allow you to drill down and take action.
- enteliWEB comes with built-in development support for custom applications, web services, mobile applications, dashboards and reports. Our partners can add functionality and customize the enteliWEB experience according to your organization's needs.
- Mobile view is available for when you're on the move. Standard web technologies allow enteliWEB to be viewed on iPad and Android tablets.

enteliWEB helps in every type of building

enteliWEB has been designed to solve management challenges in almost every type of building. Whether it's installed in a school or a stadium, enteliWEB has specific features to make managing your building simpler.



One login for all your sites

See all your BACnet devices (for all your vendors) in one easy network tree

Control what every user has permission to access

▶ enteliWEB makes portfolio management simpler

Property Portfolio Management

enteliWEB gives you centralized control by enabling you to manage several facilities through one easy to use interface. Your management costs decrease when alarms, users, energy analysis, reporting, and much more are placed in one system. Operators save time as they no longer have to work with multiple, disconnected systems.

Large organizations often have many controls vendors in their buildings. Having different work stations for different vendors is inefficient and confusing for operators, as alarm management, scheduling, and other common tasks are presented differently by each vendor. enteliWEB easily connects to any BACnet/IP building and automatically begins scanning the network, annunciating alarms, and making information available on your dashboards.

enteliWEB's multilingual capabilities allow multiple users under the same login to simultaneously view the same enteliWEB page, with each user seeing the page in the language of their choice. enteliWEB offers 23 languages for its users, allowing for hassle free communication between your global offices.

Flexible Multi-Site Management

The enteliWEB navigator automatically scans the BACnet network and presents devices in a logically arranged network tree. This structure makes it easy for the Facilities Manager to monitor and command the building's control system.



enteliWEB meets your needs

Building Owners

- Create energy savings throughout your building by dynamically turning off the HVAC and lighting of unoccupied spaces
- Monitor your energy expenditure and operations through a mobile interface
- Continuously measures building performance against optimal standards
- Ensure your building data is secure by controlling what users have access to and which alarms they can see

Specifying Engineers

- Custom reporting makes it easier to present information you need to become LEED/BREEAM/NABERS certified
- Virtual meters allow sub metering without physical installation
- Combining energy and operations in one easy to use interface
- Manage multi-vendor BACnet sites with ease
- enteliWEB is BTL listed as a B-OWS

Tenants

- Public dashboards allow you to display your energy savings to the building occupants
- Tenant dashboards give tenants an idea of how much energy they are using or saving at any given time
- Environmental control ensures your building is comfortable and productive

Energy Managers

- Reducing energy load in unoccupied rooms by turning down cooling
- Energy dashboards allow you to monitor your building's energy expenditure constantly
- Create energy reports instantly for meetings
- Virtual meters are a fraction of the cost of physical meters

Chief Executives

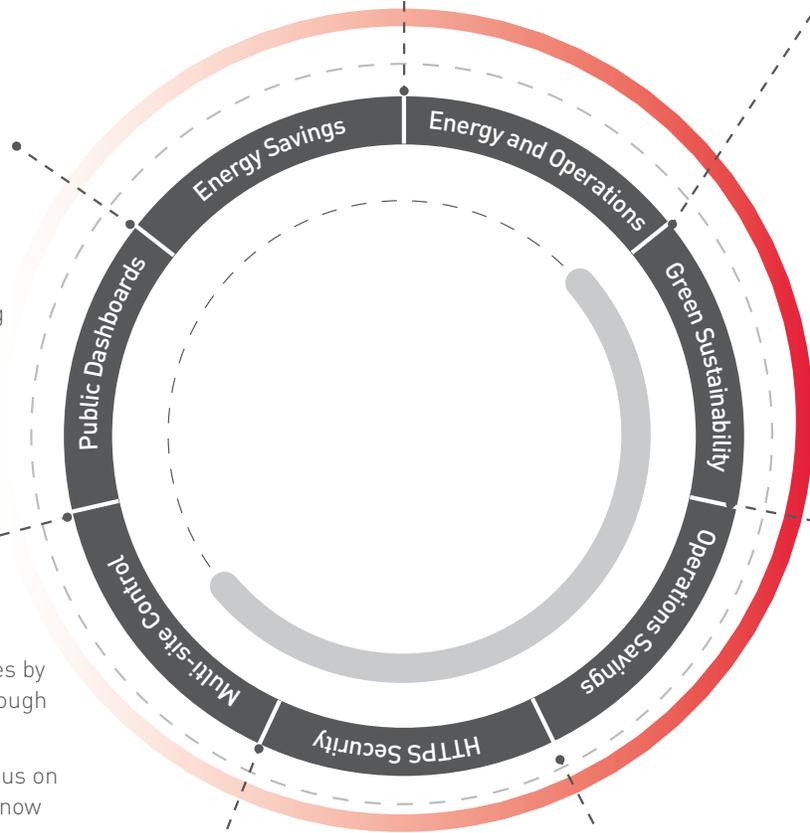
- Savings on operation expenses by controlling multiple-sites through one interface
- Personal dashboards that focus on the information you want to know
- Public dashboards allow you to display energy savings to building occupants
- Continuously measures building performance against optimal standards
- Create custom reporting at your fingertips, using your own KPIs

IT Department

- Standard web technologies make it easy to configure enteliWEB into any system
- HTTPS security
- Virtualization
- LDAP user integration

Facilities Manager

- Multi language support
- Supervisor control of multiple sites
- Continuously measures building performance against optimal standards
- Keep your building data secure through HTTPS security
- Save on operational costs by making changes to your building through the enteliWEB mobile app wherever you are



enteliWEB is intuitive to use

Learn Quickly, Work Efficiently

enteliWEB is simple and effortless. We have made everything accessible through one easy to use interface, meaning your alarms, reports, scheduling, and much more are at the tips of your fingers.

- Intuitive layout and navigation so you can view a facility and see which equipment can be adjusted to control the environment in that area within two clicks.
- Get to where you want quickly; click on an alarm and see the system in question.
- Graphics, alarms, reports, and scheduling-system management can be assigned to relevant people, all from one system.
- Combine multiple widgets on one screen to view needed information in one place.
- Easy to use graphics display clear information about your BMS and highlight important information quickly.

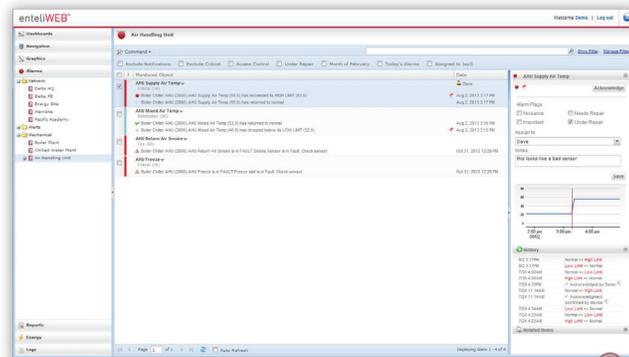
Click on an alarm and instantly see the system at fault

Be notified of events via email so you never miss important issues

Alarm Management

With enteliWEB, alarm management is made simple with intelligent visualizations and automatic presentation of trends and related items.

- Alarm management is simplified with filtering and management features.
- E-mail notifications may be set up based on a customizable filter. Multiple e-mail notification rules may also be set up on a per-user basis.
- Acknowledge multiple alarms and set parameters on multiple alarms at the same time.



enteliWEB dashboards fit the way you work

Create custom dashboards for every user to display all the information you need on one page.

Our simple user interface graphics mean **you don't need to be a programmer** to achieve this.

Data Visualization

With all these interconnected systems comes a lot of data. enteliWEB collects and organizes this information, displaying it through a custom dashboard. Dashboards can be customized to your needs in every level of enteliWEB. All four types of dashboard are available through one enteliWEB solution:

- Enterprise dashboards allow Facility Managers to quickly evaluate their systems based on KPIs.
- Personal dashboards provide an easy way for operators to view the building the way they want.
- System dashboards provide a much richer experience than graphics alone. They combine operational views such as graphics, alarms, point lists, charts and other tools all on one page.
- Energy dashboards allow you to monitor how much energy your building is using in one quick glance. You have the ability to choose the appropriate systems, and have their energy usage displayed in one easy to understand interface.



enteliWEB user management and security

User Management

With enteliWEB, user management is made simple with user permissions and groups. Groups in enteliWEB enable you to give specific permissions to the various users that have access to enteliWEB. This means that **your lighting contractors can have a different interface from your HVAC contractors**, all through a single installation of enteliWEB.

User profiles and their associated permissions are easy to create, manage, and modify through the user permission settings, meaning that profile changes can be made within seconds. Alarms can also be allocated based on different profiles and user access, making it easier for you to control how much information is available to each enteliWEB user.

enteliWEB Security

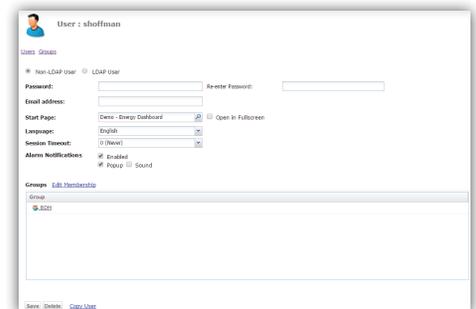
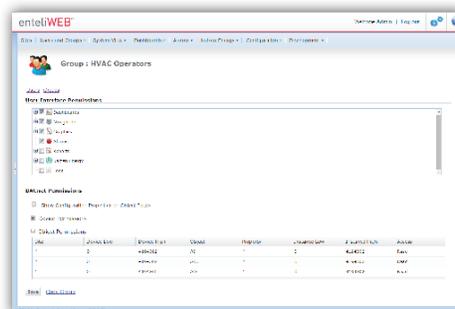
Managing several users and groups means you have many questions around the security of your data. enteliWEB gives you peace of mind by taking multiple measures to ensure the security of your data:

- Passwords are enforced in enteliWEB.
- The enteliWEB login process can be placed behind your organization's LDAP.
- enteliWEB inherits all security features of MySQL.
- There are several ways to configure enteliWEB in and around your firewall, which means that it can fit nicely into the security structure your IT department has laid out for your organization.



IT departments are becoming a critical stakeholder in building automation system design and maintenance. enteliWEB is designed on standard platforms using standard technologies to seamlessly fit into your organization's IT structure.

- Dave Stephen,
enteliWEB Product Manager



enteliWEB's added benefits

Save Money

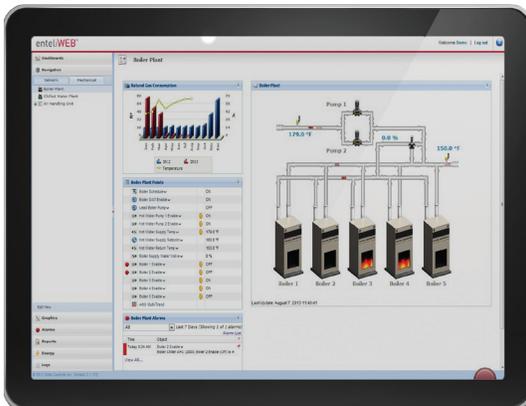
enteliWEB works to save you money.



- Fully-fledged energy management and facility management software in one package. Different permission rules mean you can use enteliWEB as two systems for different staff or as one integrated package.
- Uses the existing building automation system infrastructure. There's no need to install a completely separate network just for energy monitoring.
- Does not require proprietary meters. enteliWEB can interface with any meter already installed, so no new hardware costs.
- Reduce the setup time and cost by importing existing ORCAview graphics to visualize building operation.
- Create your building's own energy baseline to track energy management improvements and show how much you have saved.

Your Building, Your Way

enteliWEB is both flexible and customizable, meaning it's the right solution for you.



- View and manage HVAC, lighting, energy and other systems from one operator workstation.
- Create your own widgets; you can even put the interface of third-party systems into a widget window so you don't need to have multiple packages and screens open.
- Use the configurable reports in enteliWEB or design custom reports using an industry standard, open source, report design package.
- Easily view enteliWEB on an iPad or Android tablet through tablet optimized dashboards.
- Manage multiple facilities from all over the city or country from one location.



The CopperTree Solution

The Kaizen Energy module is one of a new suite of enteliWEB options from CopperTree Analytics that brings enterprise level energy management into the single-seat framework of enteliWEB.

Automated buildings generate enormous amounts of data. With Kaizen, data is transformed into meaningful insights that enable the proactive management and energy optimization of your buildings. Through its Golden Standard, Virtual Meters, and Reporting, Kaizen enables you to spend less time finding problems and more time fixing them.

Connect to physical energy meters or create virtual meters from your building's data points and ensure that you are getting the most complete energy picture.

For more information and to explore all the benefits CopperTree can bring to improve your building performance, please visit

www.coppertreeanalytics.com.



COPPERTREE
ANALYTICS

enteliWEB and CopperTree work together to bring you complete energy management

CopperTree Analytics

CopperTree is part of the Delta Controls Group, which gives it 30 years of practical energy and building management expertise. This allows them to bring you Software as a Service (SaaS) to help you start saving energy. CopperTree gathers data from the BAS, storing it in secure cloud servers. It then analyzes your building's data continuously, highlighting anomalies and identifying inefficiencies.

enteliWEB and CopperTree Analytics software seamlessly integrate into one complete application that allows you to see energy trends, diagnose systems faults, and make improvements and changes directly to your Building Management System.

Get Deeper Insight

- CopperTree pulls data directly from any BACnet BMS system and presents it within enteliWEB.
- Real time building data is securely stored for protection and analyzed to identify faults and track energy usage.
- Reports, KPIs and dashboards show you exactly what is going on within your building
- You can measure and track energy to a far more precise level than was ever affordable before using virtual meters.
- A full CopperTree installation provides a unique "golden standard" feature which protects your building settings at commissioning levels but lets you constantly evolve your building performance.
- CopperTree provides you insight into which fixes will make the most impact – which means now you can make the most of your staff and equipment.

Take Instant Action

- Set KPIs for individual staff with a full CopperTree installation and incentivize them based on performance measures.
- Allocate work orders and alerts to team members to prioritize their activities.
- Make live (or scheduled) adjustments according to weather feeds or schedule requirements.
- Set VIP watch lists.
- Covers you from a single site to a whole campus or district.
- Drill down from a school district to a school gymnasium VAV in a few clicks.

▶ Helping you save money on energy

Energy Management

Energy management turns into a seamless process with CopperTree as a part of enteliWEB. Analyze your building metrics through your dashboards by monitoring your building through customized widgets. Go one step further by setting up notifications that monitor the HVAC and alarms throughout your building, letting you know if there are areas of concern.

Energy dashboards are **automatically created** when the meters are set up.



Reporting Tools

Create reports instantaneously using the enteliWEB reporting tool. Whether you need to present energy metrics in your weekly meeting or a company-wide presentation, enteliWEB is a hassle-free way to report on the energy savings inside your building.

Demonstrate your sustainability commitment by **displaying energy dashboards throughout your building** so your staff and occupants know how much energy you are saving.



About Delta Controls

Delta Controls is one of the largest independent manufacturers of building automation controllers with more than 300 service providers in over 80 countries. For more than three decades Delta Controls has offered dependable and user-friendly building control solutions to commercial, healthcare, education, leisure buildings and more.

Recognized as industry leaders, our track record includes delivering the world's first fully integrated native BACnet building solution encompassing HVAC, Lighting and Access products. Delta Controls continues to be instrumental in the development and evolution of the BACnet open-protocol, now the most common protocol in the industry. Our products are easy to integrate into any BACnet system, and with our gateways we are able to work with other protocols too. We believe in your right to choose the right system for your building's specific needs. Our vision has always been to make building control more effective to help save energy.

To find out about Delta Controls, visit our website at

www.deltacontrols.com

