

WebStation

EcoStruxure Building Operation

Introduction

EcoStruxure Building Operation WebStation is a web-based user interface for day-to-day operation in an EcoStruxure BMS. WebStation comes built in with every EcoStruxure BMS server, and provides easy access to the software from anywhere in the world.

Features

WebStation provides a rich, responsive user interface to access the EcoStruxure BMS servers using common web browsers on Windows PCs, Mac OS computers, Android and iOS tablets and smartphones. Users can view and manage graphics, alarms, schedules, trend logs, reports, and user accounts.

Secure user accounts

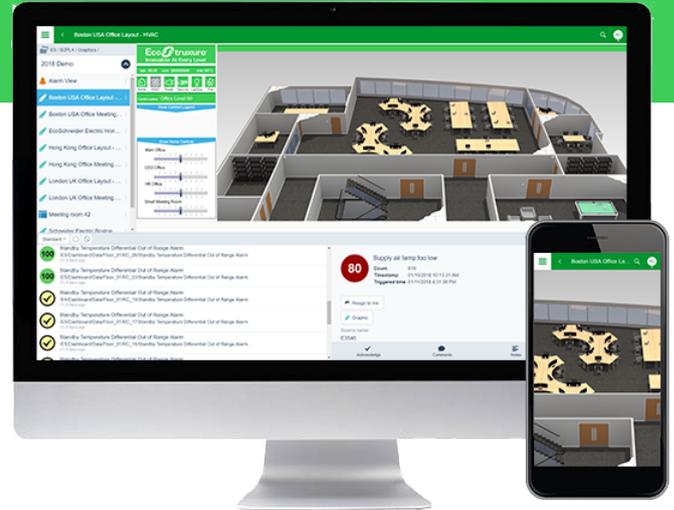
An EcoStruxure BMS requires each user to have an account. Access can be through an account maintained by the EcoStruxure Building Operation database or through a Windows Active Directory account. IT policies for password formatting, aging, and uniqueness are supported and enforced.

Language and regional settings

The software adapts the displayed language, measurement system, and date/time format to the operating system settings. Language and measurement system can easily be switched from within WebStation. Translations of WebStation are delivered as separate language packs that are easy to install and deploy. More than 40 preset data and time formats are supported.

Customized view of the system

The software has the flexibility to be fully customized to the viewing preference of each user. The main interface, called the Workspace, is a panel-based interface where users can select, position, and re-size a wide variety of components, such as alarms, graphics, and editors. WebStation supports Workspace and Panel functionality without modification and automatically adapts the layout to the device used.



Powerful search functionality

The search function helps users quickly find information and navigate to wherever they need to go. By typing in all or part of the name, the user sees a list of all items that match. The software shows the current status or value for each item and users can open the item directly from the search list.

Efficient alarm management

Alarms need to be assessed and responded to quickly. Through WebStation, the software can present a large number of alarms in a simple and efficient way to ensure no alarm is overlooked. Alarms can be color coded, grouped, and filtered for maximum efficiency.

WebStation can even assign alarms to a user or a group of users by a dispatch center or manager. Using a filter, users can see only the alarms assigned to them and decide whether or not to accept the assignment.

Stunning graphics capability

In an EcoStruxure BMS, the graphics can be customized to provide the user interface required to effectively run each facility. Graphics are stored locally in the EcoStruxure BMS servers and are available to authorized users from wherever they log on.

Scalable vector graphics

The EcoStruxure Building Operation software uses scalable vector graphic technology so that users can zoom in to see details without losing clarity. Graphics are built once, but can be used on any display regardless of size or resolution. Vector graphic file sizes are small so they can be stored and served directly from the SmartX server.

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Super dynamic live updates

A standard live update simply shows the displayed values as conditions change in the field. With the EcoStruxure Building Operation software's super dynamic live updates, all aspects of graphical elements can change when values change.

Robust alarm tracking

Acknowledgement and response alarms can be acknowledged with varying degrees of detail, depending on the importance of the alarm. Users can be required to enter notes or choose from a standard list to explain how the issue was resolved. WebStation can present the user with instructions or a specific view of their system that shows details of the affected equipment. The alarm log records the user's actions.

Advanced activity log

It is important to log more than basic activity. The software logs every action with a timestamp, the user who performed the action, and the values that were changed.

Easy to read trend logs and charts

The software can trend data in many ways, including a periodic method (every day, hour, minute) and a change-of-value (COV) method that only records when a defined threshold has been passed. These trend logs can be shown in trend lists and charts to visualize patterns for diagnostic and optimization purposes. Multiple series can be presented in a single chart, so that data points can be easily compared.

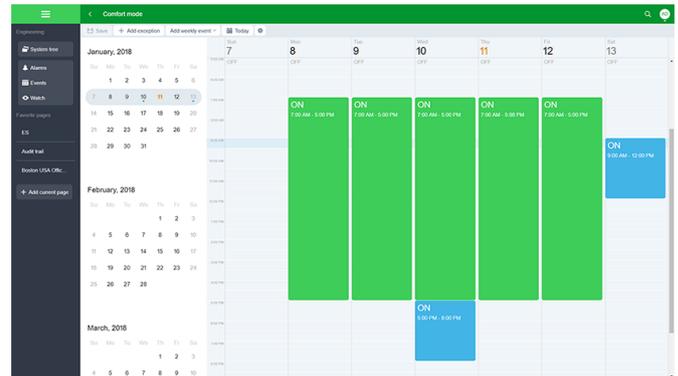
IT friendly and secure

WebStation is based on standard web technologies and requires no special configuration on the client or server side. Platform-independent technologies make it run on most popular browsers. No Schneider Electric specific software has to be installed and maintained on the client computers and no browser plug-ins are needed.

TLS support

Communication between clients and the EcoStruxure BMS servers can be encrypted using Transport Layer Security (TLS 1.2, 1.1, or 1.0). The servers are delivered with a default self-signed certificate. Commercial Certification Authority (CA) server certificates are supported to lower the risk of malicious information technology attacks. Use of encrypted communication can be enforced for both WorkStation and WebStation access.

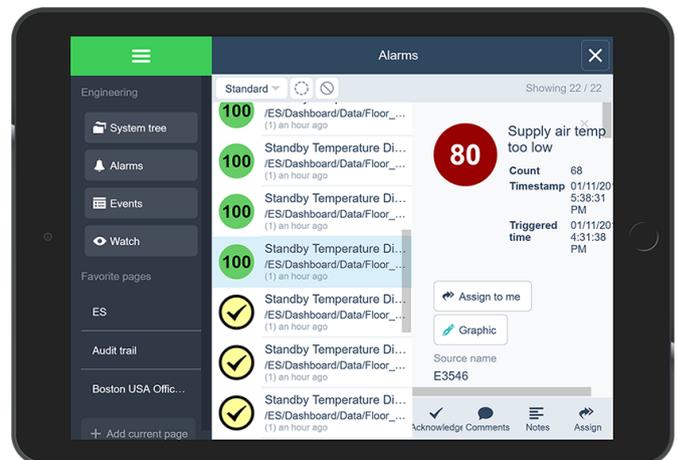
Intuitive schedules



Schedule Editor

Energy efficiency is achieved when equipment is running only when necessary. Schedules manage that process through a graphical interface that is easy-to-use. Change times with a few simple clicks of the mouse. The powerful Schedule Editor can set up recurring events (every Monday, every third Tuesday, or every January 1st) or an unlimited number of exceptions with priority levels. Schedules go beyond the basic on and off control by enabling direct control of analog values. For example, users can set schedule events to percentages to control lighting levels without writing a program.

Alarms



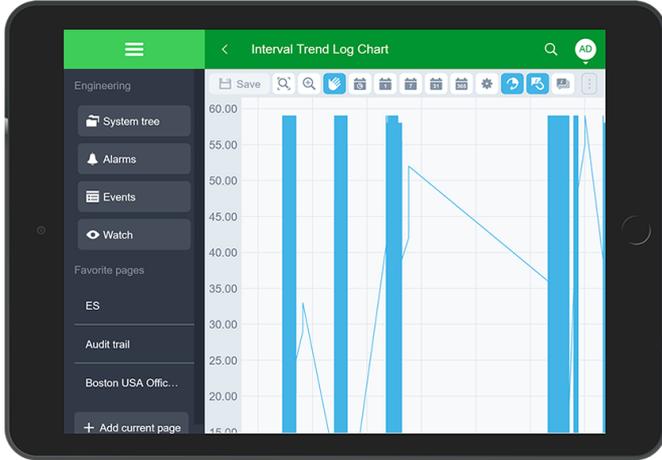
Alarms view

The EcoStruxure Building Operation software supports customized views of all system events, including alarms and user activity. Each view can be filtered on any event property. Fonts, colors, column sizes, and order can all be specified by the user.

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Trend charts



Trend Chart view

Trend charts are easy to create. The color and weight of all lines can be specified. Display of digital data is automatically shown as high and low horizontal bars, eliminating the need for additional scaling. Log data can be presented as average, minimum, maximum, or delta in addition to the actual log value itself. Users can zoom in to see details without losing clarity. A trend chart can have two different scales on the same chart to see how different data relate to each other.

Specifications

Server side

See the Automation Server, SmartX AS-P server, SmartX AS-B server, Enterprise Server, and Enterprise Central specification sheets.

Client-side hardware

DisplayMinimum: 320x568 pixel resolution
Recommended: 1,024x768 pixel resolution, portrait and landscape mode

Other devicesA pointing device such as a mouse or touchscreen.

Client-side software

Web browser support

Windows PCs.....Microsoft Internet Explorer 11
Microsoft Edge
Mozilla Firefox
Google Chrome

Mac OS computers.....Safari

Linux computers.....Google Chrome

Android tablets and smartphones.....Google Chrome

iOS tablets and smartphonesSafari
Google Chrome

Communication (to EcoStruxure BMS servers)

HTTPNon-binary, port configurable, default 80

HTTPS.....Encrypted supporting TLS 1.2, 1.1, and 1.0, port configurable default 443

Part numbers

Building Operation Client-1, EcoStruxure Building Operation WorkStation Standard or EcoStruxure Building Operation WebStation
 For 1 concurrent userSXSWCLIENT001

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Building Operation Client-UNL, EcoStruxure Building Operation WorkStation Standard or EcoStruxure Building Operation WebStation

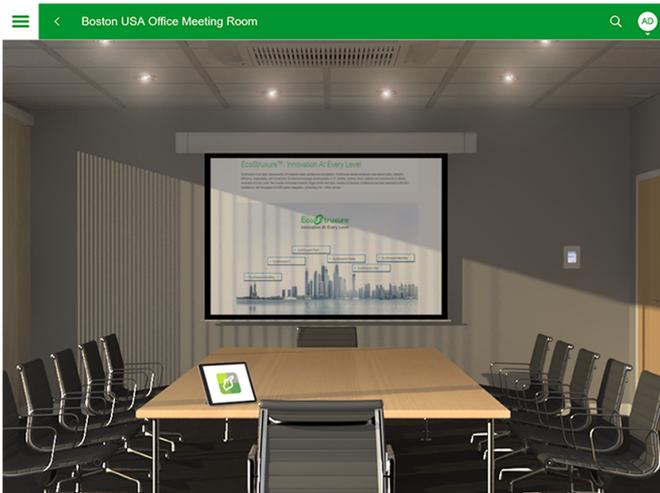
For unlimited concurrent users.....SXWSWCLIENT0999



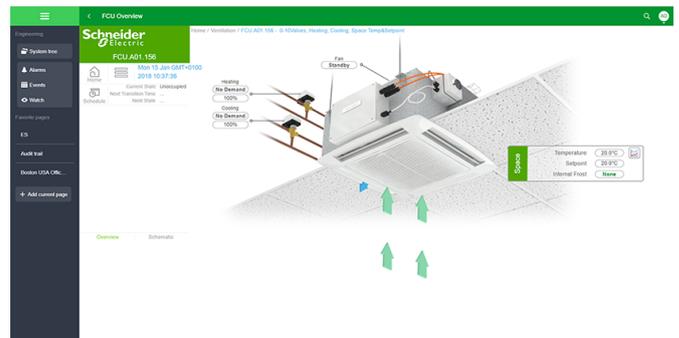
Sample WebStation interface



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