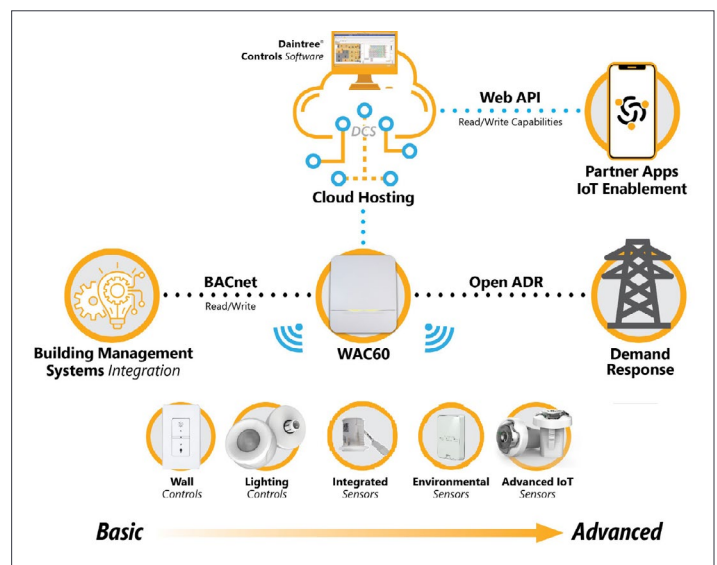# Daintree Controls Software (DCS)

SIMPLE, SCALABLE, FLEXIBLE

The Daintree Controls Software (DCS) system is a comprehensive platform for optimizing building operations and enhancing energy efficiency, featuring real-time monitoring, data-rich management, and graphical visualization of energy consumption patterns. It offers easy setup for efficient lighting control, remote access for convenient management, and ensures data security and compliance with energy codes. The system's scalability and flexibility allow for integration with other building management systems and enable IoT capabilities, making it a future-proof solution for smart building management.

Top Features

- **HVAC Controls – Environmental Sensors**
  HVAC zone report lists the setpoints, interior/exterior temperature, occupancy status and system operation mode: heating/cooling

- **Energy Metering – Power Meter Integration**
  Reducing energy cost is a primary tool of any facility management plan. Using 3-phase power meters, DCS will log and display the following energy parameters: Power usage kW, Energy usage in 15 min interval– kWh, Reactive power – kVAR, & Power factor

- **System Reports**
  a. Energy Reporting
  b. People Counting / Static & Threshold Counting
  c. Space Utilization
  d. Zone Status & Device Status Reporting

- **Device Monitoring – Troubleshooting & Commissioning**
  A full range of powerful functionality is accessed through these tabs. Get the information you need to commission, monitor and fix issues with your various devices. It's a seamless way to manage essential details.

- **BACnet Integration with BMS (Building Management System)**
  Enhanced efficiency and improved monitoring - share occupancy data, CO2, Temperature, Humidity, Water leak detection and Air Quality with other BMS systems usingthe BACnet protocol.

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DCS offers several advantages (over CSM)
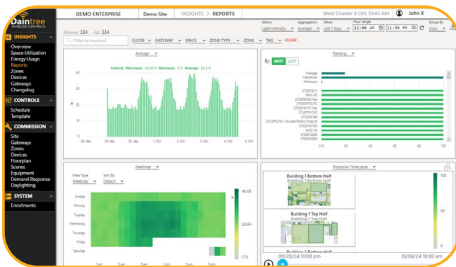
Simplified System Management: The user-friendly interface with profiles streamlines setup, monitoring, and control of your lighting system.
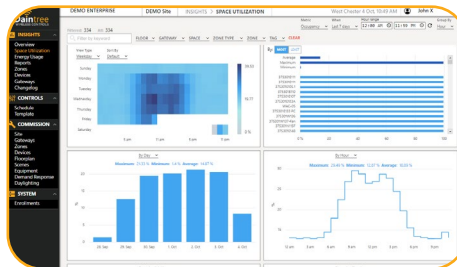
Improved Space Utilization: Analyze energy use patterns across different areas to understand space occupancy and optimize resource allocation.

Data-Driven Decision Making: Gain valuable insights from detailed reports, allowing you to make informed decisions regarding lighting strategy and infrastructure upgrades.
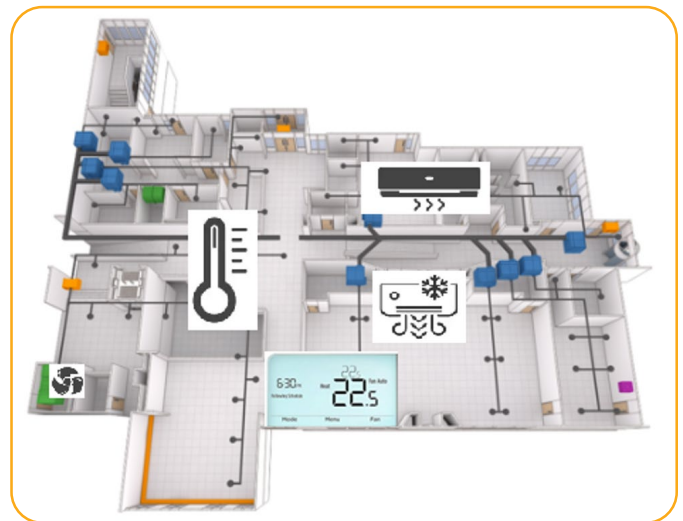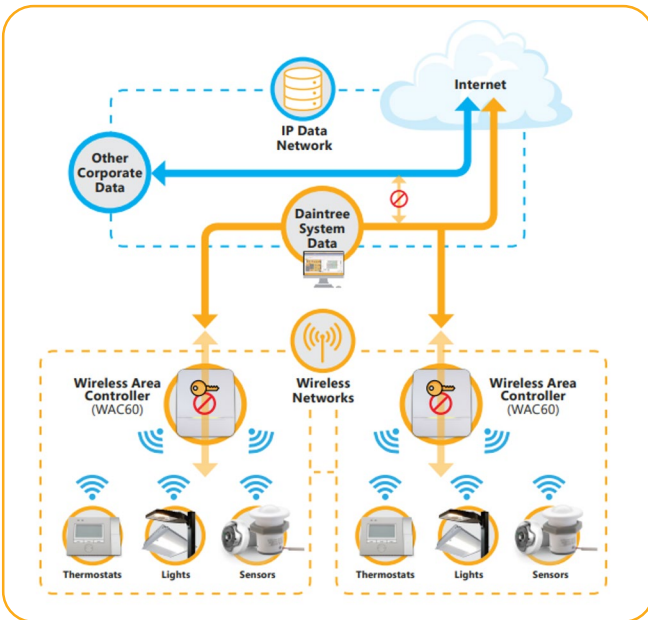

Comprehensive Reports

Space Utilization

Energey Usage

Future-Proof Technology: DCS operates on an open-standard platform, enabling seamless integration with additional Daintree compatible devices and applications as your needs evolve.

Beyond Lighting Control: Daintree Networked, with DCS as its software backbone, extends beyond just lighting. It can connect with various building systems like HVAC, fans, and water heaters, creating a comprehensive Internet of Things (IoT) solution for increased building automation and energy efficiency.

BACnet Integration with BMS (Building Management System): BACnet integration enables seamless connectivity between DCS and leading Building Management Systems allowing centralized monitoring of critical data such as lighting, CO_2, temperature, humidity, and water leak detection enhancing interoperability and operational efficiency.

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New and Improved Features with DCS

Full-Service Support
- Maximize energy performance across lighting and BMS Controls

Multi-Site Controls
- Consolidate campus or entire portfolio onto a single platform

Enhanced Security
- View the Cyber Security Overview Brochure here
- SAML single sign-on (SSO) login method offering more secure authentication (with a better user experience) than usernames and passwords
- Flexible user permissions per sites and access level
- History change log – records user activity within system

Global Scheduling
- Same schedule can be applied to multiple zones simultaneously

Customizable Alarms
- Custom Email Alarms and Notifications based on user subscriptions
- Zone water leak
- Zone temperature (too hot, too cold, setpoint unreachable)

BACnet BMS Integration
- BACnet server implementation at WAC level to provide zone level monitoring and control

OpenADR Support for Lighting
- WAC supports the OpenADR integration with utility companies
- Curb energy usage based on predefined settings
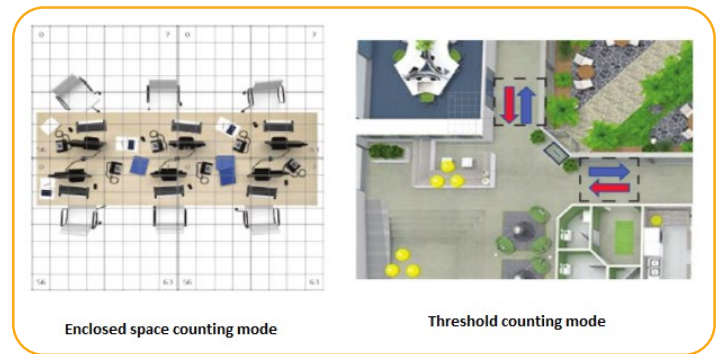
Public APIs
- Leverage data with 3rd party applications to increase productivity

Inter-WAC communication (i.e. master switch)
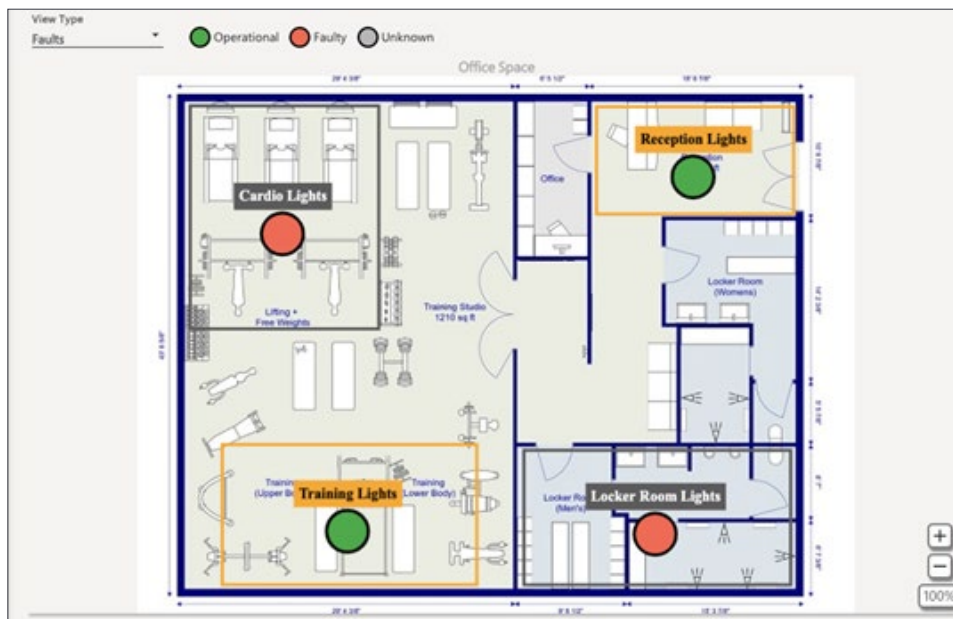- Inputs can be associated with zones across entire facility

People Counting
- Closed space counting mode: sensors work together to provide near real-time seated people counts in seated environment
- Threshold mode - installed at the entrance/exit of a zone, monitoring foot traffic in & out of that space

Enclosed space counting mode   Threshold counting mode

Enhanced Interactive Floor Plans
- Interactive floor plans and animated graphics to display occupancy, energy usage or light level variations for 7 or 30 days

Interactive floor plans

Daintree Controls Software (DCS)

Daintree
WIRELESS CONTROLS

Features in Fall Release – 1.8.2 (Q4)

Alert Dashboard
- Dashboard displays alerts for all sites within an enterprise

Enhanced Alarms
- Daily/weekly alert summary emails
- Additional HVAC alarms
- Air quality alert

OpenADR Support Extended to HVAC
- Expanding OpenADR support to include HVAC controls in addition to our existing lighting support

HVAC support for optimal start Feature
- Anticipating the heating or cooling needs of a space by starting equipment early enough to reach setpoint just at the beginning of scheduled occupancy

Alarms Dashboard

Site Alerts