SimplySNAP

DLC® V4.0 Technical Requirements for Networked Lighting Controls

Overview

The DesignLights Consortium® (DLC) is a non-profit organization dedicated to accelerating the widespread adoption of high-performing commercial lighting solutions. They currently have product qualification programs for Solid State Lighting, Horticulture Lighting, and Lighting Controls and list qualified product for each program on their website at www.designlights.com.

The DLC's Networked Lighting Controls (NLC) program has a number of technical requirements for interior and exterior lighting control systems. Each vendor is measured against a list of technical requirements. To be included in the Qualified Products List (QPL) a system must meet all of the required capabilities. Systems that do not offer these capabilities are not eligible to be listed. In addition to the "required" capabilities, the DLC also documents "reported" capabilities that are important details about each system.

The SimplySNAP network lighting control system from Synapse has met all of the required capabilities and is listed in the Qualified Products List (QPL) for both interior and exterior network lighting controls. Here is a list of the key required and reported capabilities.

Key Interior and Exterior System Capabilities

System Capabilities	Type and Location	SimplySNAP Lighting Control System Details
 Networking of Luminaires and Devices	Required Interior and Exterior	SimplySNAP is made up of embedded, external, bolt-on, and twist-lock light controllers in addition to other devices such as wall switches, sensors, and the site controller. All Synapse devices communicate with one another across the mesh network.
 Occupancy Sensing	Required Interior and Exterior	SimplySNAP is compatible with a variety of 3rd party motion sensors. When connected to a Synapse controller these sensors can be used to turn lights or zones on/off or to adjust to a specific dimming level based on the system configuration.
 Daylight Harvesting / Photocell Control	Required Interior and Exterior	Synapse supports open loop daylight harvesting to continuously adjust light levels based on the natural light present in the space. Synapse also supports 3rd party photocell sensors to turn lights on/off or to adjust to a specific dimming set point based on the light measurement.

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System Capabilities	Type and Location	SimplySNAP Lighting Control System Details
 High-End Trim	Required Interior and Exterior	Decreasing the maximum amount of power available is another easy way to decrease power consumption. In SimplySNAP you can set the high-end trim level for a light to be less than the maximum available while still allowing users the same control over light levels.
 Zoning	Required Interior and Exterior	Zones or logical groups of lights can be created in SimplySNAP and controlled with a single command from the GUI or a sensor. Lights can belong to multiple zones, and you're free to create and group lights in zones in any way you choose.
 Individual Addressability	Required Interior and Exterior	Components of the SimplySNAP solution all have unique individual addresses which allows the system to be configured one way and then changed in the future without having to change any of the electrical wiring.
 Continuous Dimming	Required Interior and Exterior	The lighting controllers for the SimplySNAP lighting control system support 0-10V dimming protocols and offer both linear and logarithmic dimming curves to allow for very smooth light level changes.
 Scheduling	Required Exterior Reported Interior	The SimplySNAP site controller allows users to set up automated behaviors across multiple zones or the entire system. The built in 5-year calendar and astronomical time-clock makes it easy to automate single events or schedule reoccurring events well in advance.

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System Capabilities	Type and Location	SimplySNAP Lighting Control System Details
 Energy Monitoring	Reported Interior and Exterior	The SimplySNAP site controllers store multiple weeks of historical energy usage per light controller. The optional SimplySNAP Power cloud application stores multiple years of historical data and generates graphical reports to compare energy usage across entire zones and custom timeframes.
 Device Monitoring / Remote Diagnostics	Reported Interior and Exterior	The SimplySNAP site controller monitors the status, power, and communications strength between components of the system. Email notifications are sent when alarms are generated along with details to aid in remote diagnostics.
 Load Shedding (DR)	Reported Interior and Exterior	SimplySNAP includes multiple methods to support Load Shedding/Demand Response including manual configuration through the user interface, using an Open ADR gateway, or using a Building Management System (BMS).
 External Systems Integration	Reported Interior and Exterior	The BMS Gateway integrates the advanced lighting controls of SimplySNAP with leading BMS solutions. The integration makes it simpler to manage and maintain all of your facility's commercial or industrial automated applications through one system.
 Scene Control	Reported Interior and Exterior	Scenes enable users to create and issue behaviors to a specific zone or multiple zones at the same time. Once created, scenes can be applied manually or scheduled as a single event or a reoccurring event.

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