BACnet Integration

BACnet Systems Interface

Date: _____

Quantity: _____

Company: _____

Project: _____

Works with

- Encelium X
  - ▶ DALI Wired
  - ▶ GreenBus Wired
  - ▶ Wireless
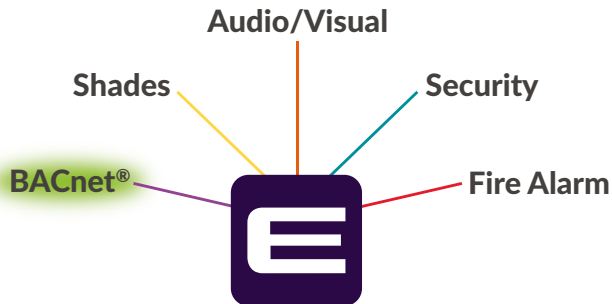
The Encelium **BACnet® Interface** enables the integration with any BACnet compatible building automation system. The BACnet interface resides in the Encelium SSU and operates autonomously providing access to lighting and sensor statuses as well as control via BACnet. The connection between the two systems is established via BACnet/IP.

Key Features & Benefits

- Built-in capability that requires no additional hardware for integration
- Enables BACnet switching and dimming control
- Reports occupancy sensor status
- Reports daylight readings obtained by photosensors
- Allows a load shedding demand response to be triggered via BACnet

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Communication

CONNECTIONS
Network Switch is Required:
- From the BACnet Network
  TO
- Encelium X Lighting Control System

Ordering Information

Ordering Code	Product Code	Description
EN-SW-BACNET	SWBACNET	BACnet Integration

Technical Information

The Encelium X Lighting Control System BACnet Interface Module shares the following information with BACnet clients:

Property	BACnet Type	Description
Light Zone State	Binary Value*	State of the defined lighting zone — ON or OFF
Light Zone Dimming	Analog Value*	Light output level of the defined lighting zone, from 100% (maximum light output) to 0% (minimum light output)
Fire Alarm State	Binary Input	State of the fire alarm system — alarm activated or alarm not activated
Occupancy State	Binary Output	State of the defined occupancy sensor — occupancy detected or not detected
Photo Sensor Daylight Readings	Analog Output	Reports daylight readings by photosensors
Sheddable Load	Analog Output	Reports the total lighting load available for load reduction according to the Encelium X Lighting Control System, defined in watts
Shed Status	Analog Output	Reports the total current load reduction achieved according to Encelium X Lighting Control System, defined prioritization, defined in watts
Shed Request	Analog Input	Requested total amount of load reduction, defined in watts or as a percentage of sheddable load
Sheddable Load (Group)	Analog Output	(As above, unprioritized for the selected group)
Shed Status (Group)	Analog Output	(As above, unprioritized for the selected group)
Shed Request (Group)	Analog Input	(As above, unprioritized for the selected group)
Load Shedding Total Demand	Analog Output	Reports the total lighting demand of all devices in a load shedding group (in Watts)

* Read/write BACnet properties

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