



ZUM-HUB4

Product Manual

Crestron Electronics, Inc.

Original Instructions

The U.S. English version of this document is the original instructions.

All other languages are a translation of the original instructions.

Regulatory Model: M201903003

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Overview

The ZUM-HUB4 enables centralized management for Zūm® commercial lighting systems of up to 1,000 rooms with an Ethernet switch (sold separately) across Zūm wired, Zūm wireless, and external spaces. The device provides a web-based user interface for control. A built-in time clock enables room lighting and occupancy and vacancy sensing automation. The ZUM-HUB4 can also be integrated with other Crestron lighting systems and control systems.

The ZUM-HUB4 is featured in three kits.

- ZUML-HUB4-GW: 4-Series™ Control Processor for Zūm® Lighting Control System with Wireless Gateway and Power Supply

Contains:

- ZUM-HUB4 and PW-2420RU power pack
- [ZUMNET-GATEWAY](#): Zūm® Net Wireless Gateway for Zūm Light Control System
- [PW-2407WU](#): Wall Mount Power Pack, 24VDC, 0.75A, 2.1 mm, Universal

For use with the ZUMNET-GATEWAY

- ZUML-HUB4-PAK: Zūm® Lighting Control Processor Panel, Basic

Contains:

- ZUM-HUB4 and [PW-2420RU](#) power pack
- [CEN-SW-POE-5](#): 5-Port PoE Switch
- [GLEX-FT-24-HC](#): Feed-Through Enclosure, 24 Circuits, Hinged Cover

- ZUML-HUB4-CN-PAK: Zūm® Lighting Control Processor Panel, Expanded

Contains:

- ZUM-HUB4 and [PW-2420RU](#) power pack
- [DIN-AP4](#): 4-Series™ DIN Rail Control System
- [DIN-EN-6X18](#): Enclosure for DIN Rail Devices, 6 DIN Rails, 18 M Wide
- [CEN-SW-POE-5](#) (x2): 5-Port PoE Switch
- [DIN-HUB](#) (x2): DIN Rail Cresnet Distribution Hub
- [DIN-PWS60](#) (x2): DIN Rail 60 Watt Cresnet® Power Supply

For use with the DIN-HUB

- [Features](#)
- [Physical Description](#)

Features

- Centralized management for Zūm® commercial lighting systems
- Provides web-based user interface for easy configuration, control, scheduling, and monitoring
- Time clock for room lighting automation and sensing behavior
- Daisy-chain up to 20 Zūm Net load controllers (sold separately) via their built-in Zūm Net ports for room-to-room communication
- Use with an Ethernet switch (sold separately) to support multiple Zūm Net daisy-chains up to 1,000 rooms
- Daisy-chain up to 32 Zūm Link devices (sold separately) via their built-in Zūm Link ports for in-room communication
- BACnet™ communication supports control for up to 9,000 BACnet objects
- Dedicated Control Subnet
- Gigabit Ethernet networking
- Enterprise-grade security
- Enables integration with other Crestron lighting systems, control systems, touch screens, shading, HVAC, and more
- Single-space rack-mountable
- Universal 100–240V external power supply

Zūm Net Wired Technology

Zūm Net wired technology offers room-to-room communication. Control a room with one Zūm Net device (ZUMNET-JBOX-DALI, ZUMNET-JBOX-16A-LV, sold separately), and daisy-chain up to 20 Zūm Net devices with CBL-CAT5E-ZUMNET-P cable. For centralized management of a Zūm Wired System, connect the chain directly to a ZUM-HUB4 or multiple chains to an Ethernet switch (sold separately) to support up to 1,000 rooms.

Web-Based Management

The web browser user interface can manage, monitor, and schedule all of the available rooms on the network. Use a laptop computer (not included) to configure devices to work with the ZUM-HUB4. Active lighting scenes, daylight levels, occupancy detection, and scheduled time clock events are displayed. Errors are shown to facilitate troubleshooting.

Time Clock

A built-in time clock enables automated lighting control based on the time of day. Assign a Room Category (such as Office or Hallway) for consistent control and programming across multiple rooms. The clock allows Day Pattern arrangement for each Room Category, with up to 24 Room

States scheduled over a 24 hour period. Different Day Patterns can be defined and assigned to the calendar, which is pre-populated with typical day patterns and a selection of U.S. holidays.

BACnet™ Communications Protocol

Communicate with a Building Management System (BMS) to provide control of fire/life safety, lighting, and other building automation systems. The ZUM-HUB4 supports up to 9,000 BACnet objects.

Crestron XiO Cloud® Service Integration

Use Crestron XiO Cloud functionality for remote commissioning and monitoring of a ZUM-HUB4 control system.

Zūm Wireless Integration

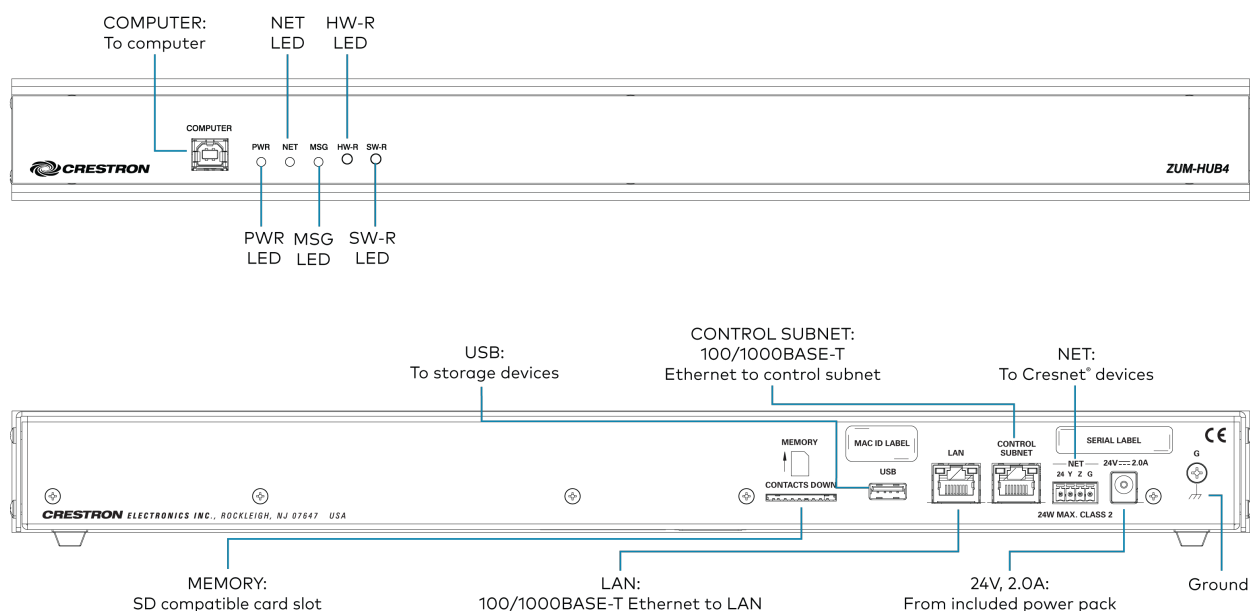
Integration with existing Zūm Wireless installations is achieved with a [ZUMNET-GATEWAY](#) (not supplied), which connects to the ZUM-HUB4 via Ethernet.

Zūm System Integration with Other Crestron Control Systems

In addition to managing rooms equipped with Zūm lighting control, the ZUM-HUB4 enables integration with other Crestron systems over an Ethernet connection. Two methods of integration are available:

- **External Rooms:** A virtual room using legacy or conventional Crestron lighting control can be added to the Zūm network to be monitored, controlled and scheduled.^{1,2}
- **Mirrored Rooms:** An external Crestron system controls and monitors a room equipped with a Zūm system. Mirrored rooms allow for room control with a Crestron touch screen or handheld remote, as well as integration with shading, climate control, AV, and other equipment.^{1,2}

Physical Description



Connectors and Card Slots

MEMORY	(1) SD memory card slot; Accepts one 32 GB SD or SDHC card to enable logging and for troubleshooting purposes
USB	(1) USB Type A connector, female; USB 2.0 host port (not used)
LAN	(1) 8-pin RJ-45 connector, female; 10Base-T/100Base-TX/1000Base-T Ethernet port; Connects to the customer's LAN
CONTROL SUBNET	(1) 8-pin RJ-45 connector, female; 10Base-T/100Base-TX/1000Base-T Ethernet port; Provides a dedicated local network for Zūm Net wireless gateways
NET	(1) 4-pin 3.5 mm detachable terminal block; Not used
24VDC 2.0A	(1) 2.1 x 5.5 mm DC power connector; 24VDC power input; PW-2420RU power pack included; Passes through to NET port
G	(1) 6-32 screw; Chassis ground lug
COMPUTER (front)	(1) USB Type B connector, female; USB 2.0 device port for configuration via computer console (cable included)

Controls and Indicators

PWR	(1) Green LED; Indicates operating power supplied from the included power pack
NET	(1) Amber LED; Not used
MSG	(1) Red LED; Indicates that the ZUM-HUB4 has generated an error message
HW-R	(1) Recessed pushbutton for hardware reset
SW-R	(1) Recessed pushbutton for software reset
LAN (rear)	(2) Bi-color green/amber LEDs; Left LED indicates Ethernet link status and connection speed; Right LED indicates Ethernet activity
CONTROL SUBNET (rear)	(2) Bi-color green/amber LEDs; Left LED indicates Ethernet link status and connection speed; Right LED indicates Ethernet activity

Specifications

ZUM-HUB4 specifications for device support and time clock, communications, connectors and card slots, controls and indicators, power, environmental, dimensions, weight, and compliance certifications.

- [Product Specifications](#)
- [Dimension Drawings](#)

Product Specifications

Device Support and Time Clock

Rooms	1,000 maximum; Züm wired, Züm wireless, and external
External Rooms and Mirrored Rooms	Varies by control system based on hardware capabilities and program complexity of the external processor ¹

Communications

Ethernet	10/100/1000 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, industry-standard TCP/IP stack, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® authentication, IIS v.6.0 web server
Control Subnet	10/100/1000 Mbps Ethernet, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP server, DNS Server, port forwarding, isolation mode
USB	Supports computer console via front panel USB 2.0 device port

Connectors and Card Slots

MEMORY	(1) SD memory card slot; Accepts one 32 GB SD or SDHC card to enable logging and for troubleshooting purposes
USB	(1) USB Type A connector, female; USB 2.0 host port; For firmware upgrades
LAN	(1) 8-pin RJ-45 connector, female; 10Base-T/100Base-TX/1000Base-T Ethernet port; Connects to the customer's LAN
CONTROL SUBNET	(1) 8-pin RJ-45 connector, female; 10Base-T/100Base-TX/1000Base-T Ethernet port; Provides a dedicated local network for Züm Net wireless gateways and wired rooms

NET (24 Y Z G)	(1) 4-pin 3.5 mm detachable terminal block; Connects to a GLS-SIM which facilitate Demand Response when connected to a nonsystem sensor, such as a GLS-ODT-C-NS ; Not used for power
24VDC 2.0A	(1) 2.1 x 5.5 mm DC power connector; 24VDC power input; PW-2420RU power pack included
G	(1) 6-32 screw; Chassis ground lug
COMPUTER (front)	(1) USB Type B connector, female; USB 2.0 device port for configuration via computer console (cable included)

Controls & Indicators

PWR	(1) Green LED; Indicates operating power supplied from the included power pack
NET	(1) Amber LED; Not used
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HW-R	(1) Recessed pushbutton for hardware reset
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CONTROL SUBNET (rear)	(2) Bi-color green/amber LEDs; Left LED indicates Ethernet link status and connection speed; Right LED indicates Ethernet activity

Power

Power Pack (included)	Input: 100–240VAC, 50/60 Hz; Output: 2.5A @ 24VDC Model: PW-2420RU
Power Consumption	15 W

Environmental

Temperature	41° to 113°F (5° to 45°C)
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	50 BTU/hr

Enclosure

Chassis	Metal, black finish
Faceplate	Extruded metal, black finish, polycarbonate label overlay
Mounting	Freestanding or 1 RU 19-inch rack-mountable; Adhesive feet and rack ears included

Dimensions

Height	1.70 in. (43 mm) without feet
Width	17.28 in. (439 mm); 19.00 in. (482 mm) with rack ears
Depth	6.47 in. (165 mm)

Weight

3.1 lb (1.42 kg)

Compliance

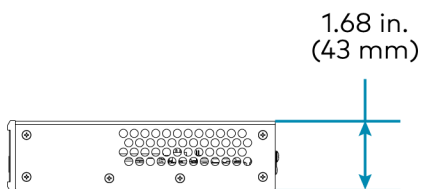
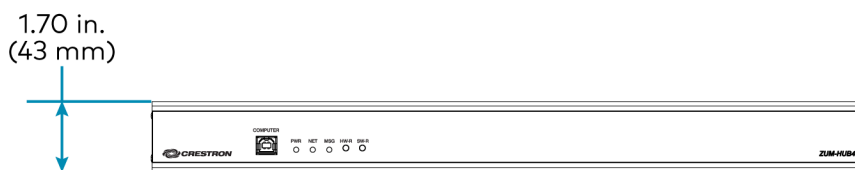
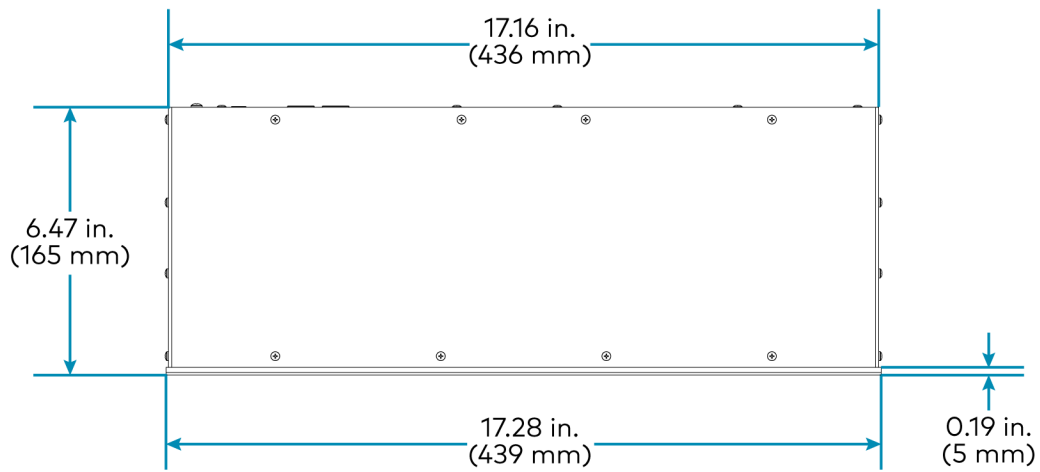
Regulatory Model: M201903003

UL® Listed for US & Canada, IC, CE, FCC Part 15 Class B digital device, UL 916, CEC Title 24, ASHRAE 90.1, IECC

NOTES:

- SIMPL+® software modules are provided for use in commissioning a Crestron control system to work with the ZUM-HUB4. The software modules run within the control system program and provide virtual connections for all the necessary intersystem control signals. A separate dedicated module is required for each external and mirrored room. Control systems are limited in the number of modules supported, ranging from 0 to 1000 depending on the model. For further assistance, please contact Crestron Commercial Lighting Support via email at clclighting@crestron.com or by calling 855-644-7643.
- Other Crestron control systems must be commissioned to provide the control logic required to communicate and operate as part of the Zūm network. Once integrated, each external room effectively becomes a part of the Zūm ecosystem.

Dimension Drawings



Installation

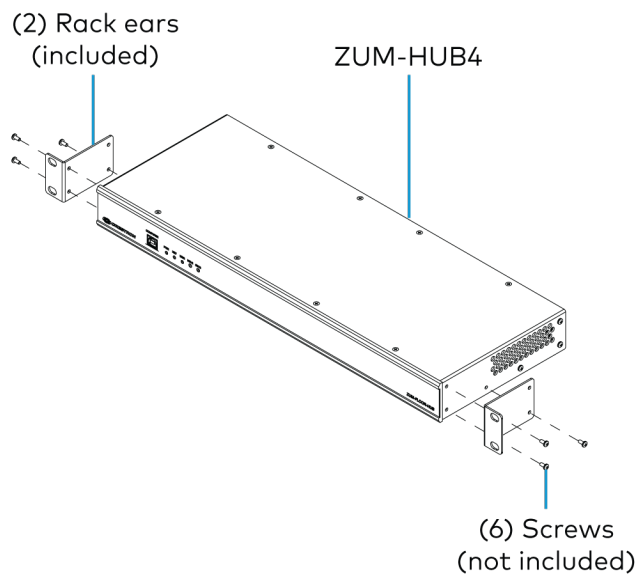
Mount the hub and connect it to the network. The hub can be mounted into a rack or placed onto a flat surface.

Mount to a Rack

The hub occupies 1U of rack space.

To install the included rack ears:

1. Use a #1 or #2 Phillips screwdriver to remove the three screws from each side of the front of the device as shown in the following illustration.
2. Use the screwdriver and the screws removed in the previous step to attach the included rack ears to the device.
3. Mount the device into the rack using four mounting screws (not included).



Place onto a Flat Surface

When placing the device onto a flat surface or stacking it with other equipment, attach the included rubber feet near the corners on the underside of the device.

Make Connections

The hub has a dedicated Control Subnet that is used for communication between the control system and Crestron Ethernet devices. This subnet allows for dedicated communication between the control system and Crestron Ethernet devices without interferences from other network

traffic on the LAN.

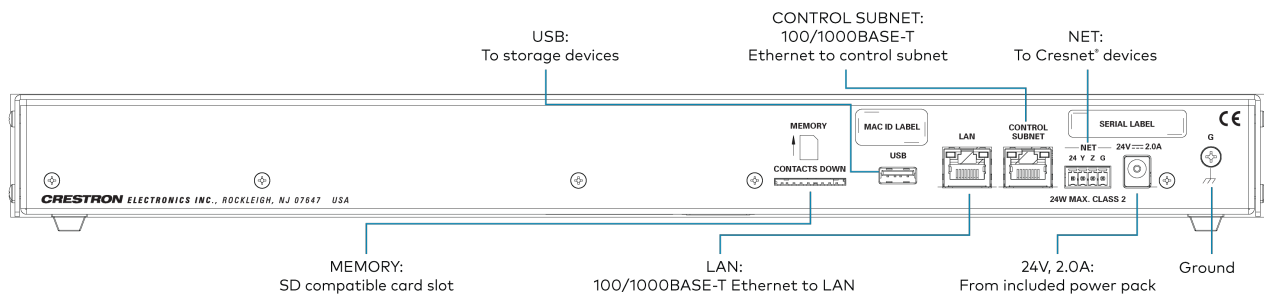
Make the connections, and note the following:

- Use Crestron power supplies for Crestron equipment.
- The included cable(s) cannot be extended.
- Apply power after all connections have been made.

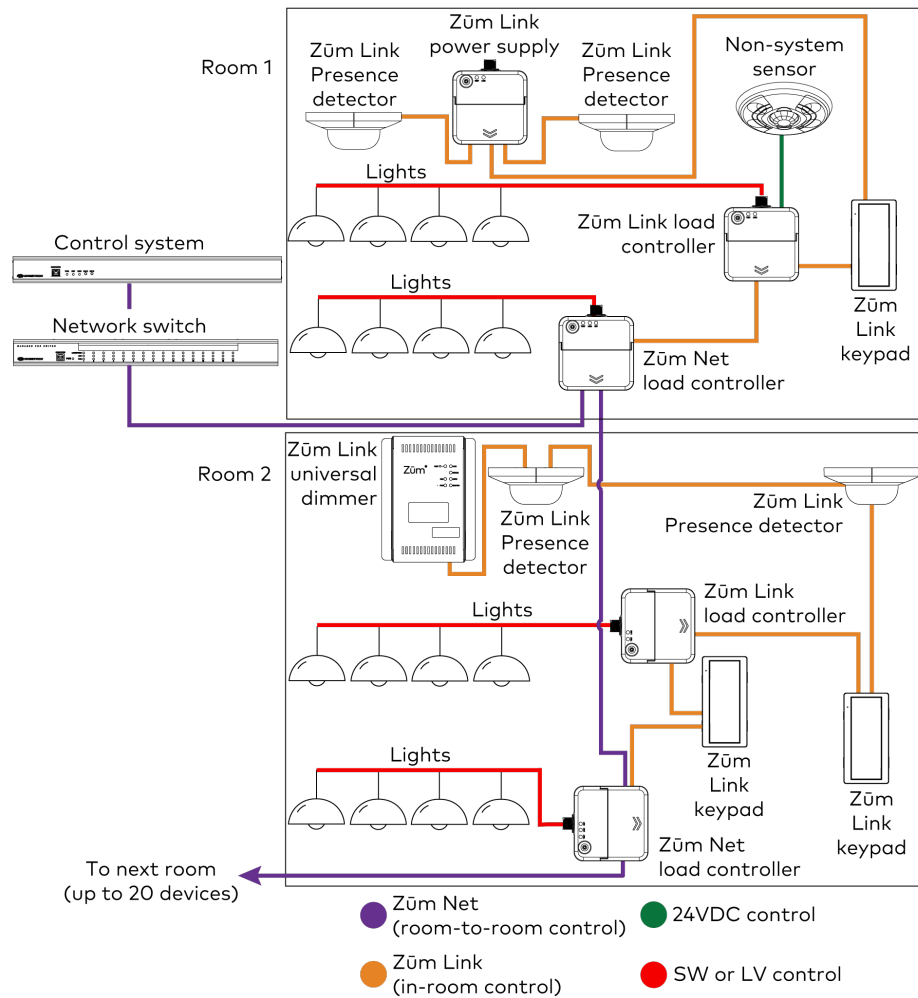
NOTES:

- Ensure the unit is properly grounded by connecting the chassis ground lug to an earth ground (building steel).
- The hub can be powered with the (included) 24VDC power pack.
- Do not connect the CONTROL SUBNET port to the LAN. The CONTROL SUBNET port must be connected only to Crestron Ethernet devices.

Connections



Zūm Wired System Diagram



NOTES:

- Daisy-chain up to 20 Zūm Net devices (up to 328 ft (100 m) between Zūm Net devices) with purple CBL-CAT5E-ZUMNET-P RJ-45 cables (sold separately).
- Do not exceed three network switches between a ZUM-HUB4 and a Zūm Net device.
- System sensors communicate digitally via Zūm Link. Non-system sensors communicate via an analog connection on a Zūm Wired load controller.

Configuration

Before using a Zūm Wired device, ensure it is updated with the latest firmware. Check for the latest firmware at www.crestron.com/firmware. Load the firmware onto the device using Crestron Toolbox™ software, the ZUM-HUB4 web interface (refer to [Version Management on page 52](#)), or the Zūm app (refer to [Update Firmware with the Zūm App](#)).

Once all of the devices are installed in the space and using the latest firmware, use the Zūm app to modify default room behavior. Expedite commissioning by copying a room configuration and sending it to a room with identical devices. Save a room configuration template and share it via email, or other methods available on the device. A template can be deployed to any identical room via the Zūm app or the ZUM-HUB4.

NOTE: The ZUMLINK-KP Bluetooth® connection is required to configure a Zūm wired space with the Zūm app.

This section provides the following information:

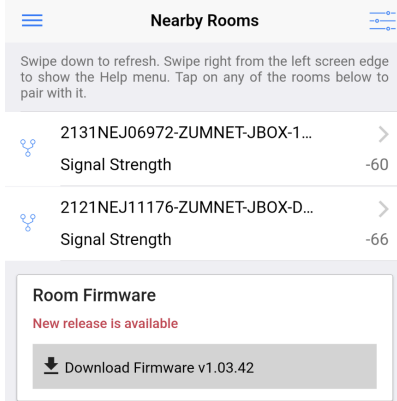
- [Zūm App Configuration](#)
- [Hub Web Interface](#)
- [Web Interface Overview](#)
- [Web Interface Configuration](#)

Zūm App Configuration

Download the Zūm app from the [Google Play™](#) online store or the [Apple® App Store®](#) online store.

To use the Zūm app:

1. Enable Bluetooth wireless connection on your device to communicate with the Zūm space.
2. Launch the Zūm app and grant the permissions the app requests. The Zūm app displays a list of available spaces.



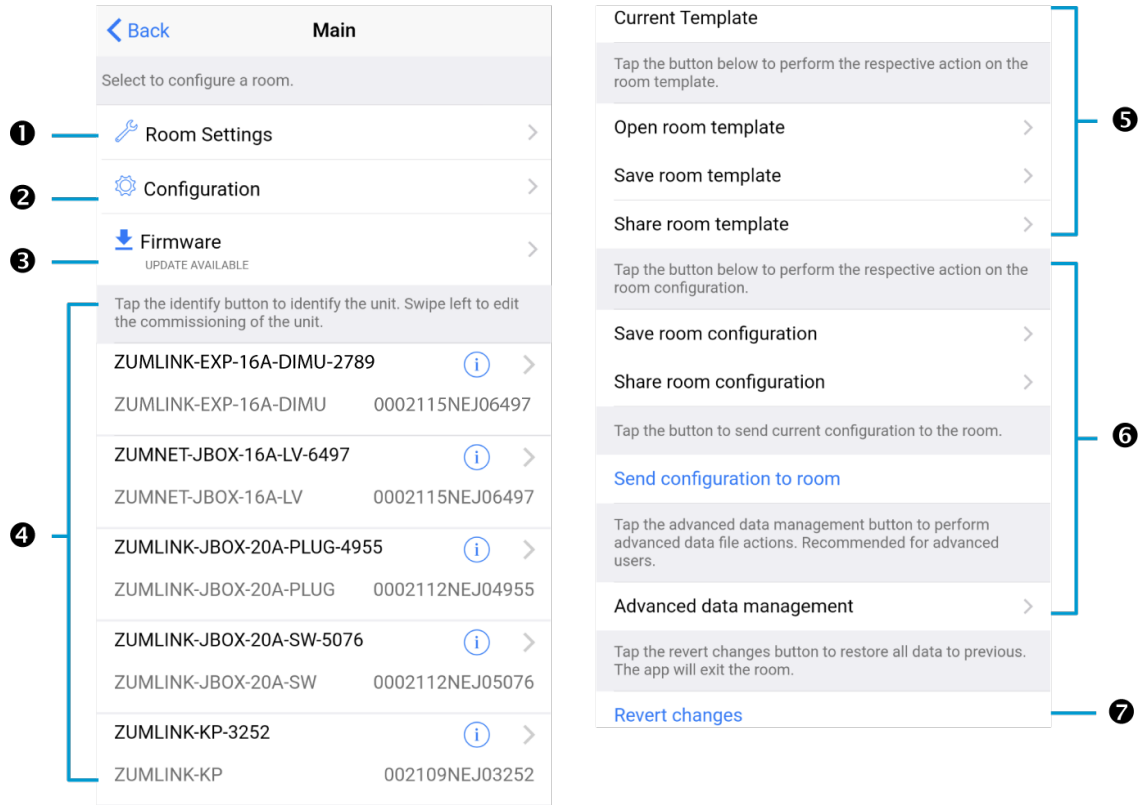
3. If new firmware is detected, update the firmware. Refer to [Update Firmware with the Zūm App](#).
4. Select the desired space.
5. When prompted, enter the PIN. The Zūm app main screen opens.

NOTES:

- For Primary load controllers running firmware 3.6.18 and higher, the default PIN is 246800. For firmware lower than 3.6.18, the default PIN is 2468.
- To change the PIN, navigate to the Room Settings. When changing the PIN, the previous PIN is required.
- The first failed log-in attempt locks the user out of the Zūm space. With subsequent failed attempts, the lockout duration increases up to 60 minutes.
- The lockout duration resets when the correct PIN is entered, the Primary load controller reboots, or when the PIN is changed from the Web-Interface.


Zūm App Main Screen

From the **Nearby Rooms** screen, tap the desired room to open the **Main** screen. The following sections describe the actions available for each area of the **Main** screen.



NOTE: The numbers below correspond with the numbers in the **Main** screen diagram.





1. Room Settings: Edit the Room Name, PIN, Floor ID, Zone ID, and Network information.
2. Configuration: Edit the room logic to view the current state of the room.
 - Occupancy Sensors: View details for the connected sensor(s) or edit the sensor name.
 - Photo Sensors: View details for the connected sensor(s) or edit the sensor name.
 - Load Controllers: Identify and view details for the connected load controller(s).
 - ZUMLINK-JBOX-16A-LV and ZUMNET-JBOX-16A-LV load controllers:
 - View Current Scene, Daylighting status, and Output Level.
 - Override: The state of the load when Override is recalled. Click the toggle to turn the load on or off during Override.
 - Assign the occupancy mode (Occupancy menu), vacancy mode (Vacancy menu), vicinity mode (Vicinity menu), and daylight harvesting (Photo menu) to specific load controllers.
 - View Dimming Values
 - Edit the Dimming Curve Configuration or Dimmer Scenes Configuration.
 - ZUMLINK-JBOX-20A-PLUG load controller:
 - Override: The state of the load when Override is recalled. Click the toggle to turn the load on or off during Override.
 - Assign the occupancy mode (Occupancy menu), vacancy mode (Vacancy menu), vicinity mode (Vicinity menu), and daylight harvesting (Photo menu) to specific load controllers.
 - ZUMLINK-JBOX-20A-SW load controller:
 - Closed: Click the toggle to turn the load on or off.
 - Override: The state of the load when Override is recalled. Click the toggle to turn the load on or off during Override.
 - Assign the occupancy mode (Occupancy menu), vacancy mode (Vacancy menu), vicinity mode (Vicinity menu), and daylight harvesting (Photo menu) to specific load controllers.
 - Scenes: Allow keypad access to the scene by selecting or deselecting the checkbox. Determine the state of the load when the scene is recalled by clicking the toggle on or off.


- ZUMLINK-EXP-16A-DIMU load controller:
 - View Current Scene, Daylighting status, and Output Level.
 - Override: The state of the load when Override is recalled. Click the toggle to turn the load on or off during Override.
 - Assign the occupancy mode (Occupancy menu), vacancy mode (Vacancy menu), vicinity mode (Vicinity menu), and daylight harvesting (Photo menu) to specific load controllers.
 - View Dimming Values.
 - Edit the Dimmer Scenes Configuration.
 - Scenes: View and edit room scenes: Scene 1 - Scene 16. When editing the scene, tap the Identify icon  to identify the load controller. The load controller emits a sound and flashes the Link LED. The connected loads also flash.
 - Keypads: Identify and view details for the connected keypad(s). Edit the keypad name and assign the button layout.
 - Adjust the Double Tap Speed: Set the amount of time between two button presses to qualify as a double tap.
 - Specify the Button Layout and click on a button to configure button actions.

Button action options:

 - None
 - Off: Assigned load controllers turn off.
 - On: Assigned loads turn on.
 - Raise: Assigned load controllers raise.
 - Toggle: Switches load controllers between ON and OFF states
 - Lower: Assigned load controllers lower.
 - Recall Scene 1 - Scene 16: Assigned load controllers recall the behavior set for the specified scene.
 - Export to Hub: Name and send information to ZUM-HUB4 for macro actions.
 - Load Shedding: Set the maximum levels for load shedding.
 - Load/Sensor Groups: Create groups within the room.
 - DALI Controllers: Address drivers, create DALI groups, assign drivers, and identify drivers.
 - Current Scene: Displays the current room scene.
 - Occupancy Status: Displays occupied or vacant. If any area of the room is occupied, then the status is Occupied. When all areas of the room are vacant, the status is Vacant.
3. Firmware: To update firmware, refer to [Update Firmware with the Zūm App](#)..

4. Discovered Room Devices: Identify a device and edit the commissioning settings

Tap the identify button to identify the unit. Swipe left to edit the commissioning of the unit.		
ZUMNET-JBOX-16A-LV-6497		>
ZUMNET-JBOX-16A-LV	0002115NEJ06497	
ZUMLINK-JBOX-20A-PLUG-4955		>
ZUMLINK-JBOX-20A-PLUG	0002112NEJ04955	
ZUMLINK-JBOX-20A-SW-5076		>
ZUMLINK-JBOX-20A-SW	0002112NEJ05076	
ZUMLINK-KP-3252		>
ZUMLINK-KP	002109NEJ03252	

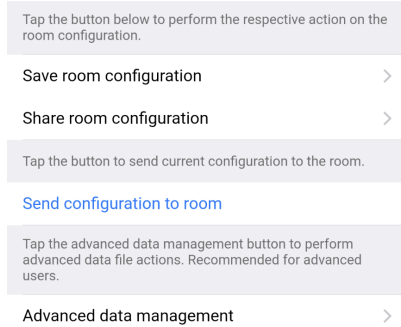
- Tap the Identify icon  to identify a device. A load controller emits a sound and the Link LED flashes. The connected loads also flash. A keypad flashes its LED.
- Tap the device to edit or review the device details: Edit Name. Review the Model, Serial Number, Status, and edit the device settings.

5. Current Template Settings: Choose Open room template, Save room template, or Share room template.

Current Template	
Tap the buttons below to perform actions with the room template.	
Open room template	>
Save room template	>
Share room template	>

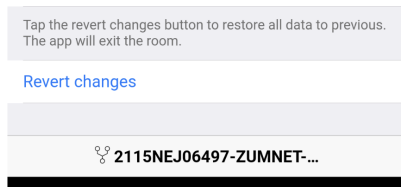
6. Configuration Data:

- Save room configuration: Save the room configuration data in the space.
- Share room configuration: Share the room configuration data in the space.
- Send configuration to room: Send room logic changes made in the app to the room.
- Advanced data management: Review the Map, Logic, and Settings of the data currently loaded. Load, save or share new Map, Logic, or Settings data.



NOTE: Changes made in the app are not sent to the room until they are deployed using the Send configuration to room button.

7. Revert changes: Restore all non-deployed changes made since launching the app.



Hub Web Interface

The ZUM-HUB4 is configured using the web interface. Connect to the device by entering the device hostname into a web browser. The hostname is comprised of "ZUM-HUB4-" followed by the entire MAC address (e.g., ZUM-HUB4-00107FCA1112). The **New User Registration** screen is displayed during the first connection. Enter the user's **Username**, **Password**, **Firstname**, **Lastname**, and **Email Address**, and then click **Submit**.

New User Registration

Username

Password

Firstname

Lastname

Email Address

Submit

Web Interface Overview

The web interface gives users the ability to configure room behavior globally across the ZUM-HUB4, by Room Category, by Floor, and by Room.

Category View:
Manage Rooms.

System View:
Manage Floors and devices.

Settings View:
Manage settings

Global controls for the ZUM-HUB4:
Add Room Category, All Off, All On, Bluetooth PIN, Demand Response Level

Toggle collapses or expands controls

Actions Menu:
Demand Response Mode, Discover, and Reboot

Device Information and Status:
Demand Response Status, System Information, Help, Sign Out

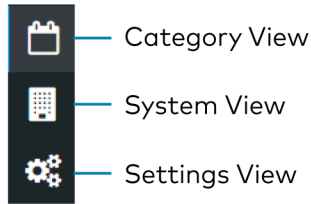
Displays content based on Category, System, or Settings controls

Displays content based on the Category, System, Settings, and ZUM-HUB4 controls

Room	Category	Floor ID	Host Name	Status	Occ.	Active Scene	Next Event	Action
<input type="checkbox"/> Caroline's Office	Offices	Unassigned	ZUMNET-CA043F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Colorado	Conference Rooms	1	CEN-GWEXER-EB084F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Cubicles - Northeast	Cubicles - East	Unassigned	ZUMNET-CA0453	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Downstairs Restrooms	Restrooms	1	CEN-GWEXER-EB084F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Hundred Acres	Conference Rooms	1	CEN-GWEXER-EB084F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Network Team	Labs	1	CEN-GWEXER-EB084F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Oilwell	Conference Rooms	1	CEN-GWEXER-EB084F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Olympus	Conference Rooms	1	CEN-GWEXER-EB084F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Prototyping	Labs	1	CEN-GWEXER-EB084F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Room 206	Huddle Rooms	Unassigned	ZUMNET-CA045E	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Room 207	Huddle Rooms	1	CEN-GWEXER-EB084F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Room 208	Huddle Rooms	Unassigned	ZUMNET-CA0427	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Upstairs Restrooms	Restrooms	1	CEN-GWEXER-EB084F	Online		Off	Default - Use Occupancy ...	

Category View, System View, and Settings View

The web interface has three configuration sections: Category View to manage Rooms, System View to manage Floors and devices, and Settings View to manage settings.



Category View

The Category View lists room categories and rooms (in the **Rooms** tab) that have been discovered by the ZUM-HUB4. Room Categories are intended to be groupings of all rooms that are a similar type (for example, office or conference rooms) to provide easy monitoring and control. Rooms that have not been assigned to a Room Category are kept in the **Unassociated** category. Select the **Schedule** tab to edit default behavior for Day Patterns, Room States and Holidays.

- [Manage Rooms on page 33](#)
- [Manage Room Categories](#)
- [Set the Bluetooth PIN on page 27](#)
- [Configure the Demand Response Mode and Level on page 29](#)
- [Schedule Room Behavior on page 38](#)

System View

The System View lists Floors and rooms (in the **Rooms** tab) that are discovered by the ZUM-HUB4. Use the Hardware Management tab to view and edit device information, such as assigning a device to a floor.

- [Manage Floors on page 46](#)
- [Set the Bluetooth PIN for a Floor on page 29](#)
- [Set the Demand Response Level for a Floor on page 32](#)
- [Manage Devices on page 47](#)

Settings View

The Settings View manages the settings for the ZUM-HUB4, Users, External Control, and Commissioning. The Settings tab is open by default.

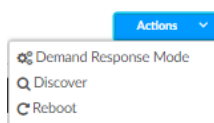
- [Manage Settings on page 51](#)
- [Manage Users on page 55](#)
- [Manage External Controls on page 57](#)
- [Manage Commissioning on page 60](#)

Global Settings and Actions for the ZUM-HUB4

Apply settings that effect all devices discovered by the ZUM-HUB4 regardless of the room, room category, or floor the device is assigned.

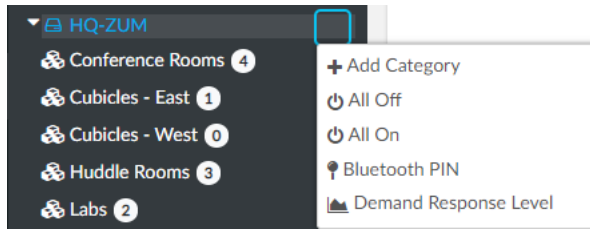
ZUM-HUB4 actions:

- [Configure Demand Response Mode on page 29](#)
- [Discover Rooms on page 24](#)
- [Reboot ZUM-HUB4 on page 64](#)




ZUM-HUB4 controls:

- [Add a Room Category](#)
- [Turn On/Off All Discovered Devices on page 26](#)
- [Set the Bluetooth PIN for All Discovered Devices on page 27](#)
- [Set the Demand Response Level for All Discovered Devices on page 30](#)

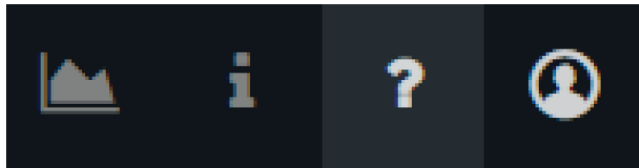


Navigation Toggle

Click  to collapse or the Category View, System View, Setting Views, and the global ZUM-HUB4 settings.

Device Information and Status

View the Demand Response status, system alerts, help information, or sign out of the web interface. Refer to [Review Device Information and Status on page 63](#).



Web Interface Configuration

After using the Züm app to setup Züm spaces and logging into web interface, configure the ZUM-HUB4:

- [Discover Rooms](#)
- [Add a Room Category](#)
- [Rename a Room Category](#)
- [Turn Rooms On or Off](#)
- [Set the Bluetooth PIN](#)
- [Configure the Demand Response Mode and Level](#)
- [Manage Rooms](#)
- [Schedule Room Behavior](#)
- [Manage Floors](#)
- [Manage Devices](#)
- [Manage Settings](#)
- [Manage Users](#)
- [Manage External Controls](#)
- [Manage Commissioning](#)

- [Review Device Information and Status](#)
- [Reboot ZUM-HUB4](#)

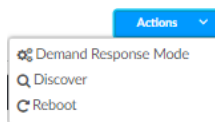
Related topics:

- [Zūm App Configuration on page 13](#)
- [Hub Web Interface on page 19](#)

Discover Rooms

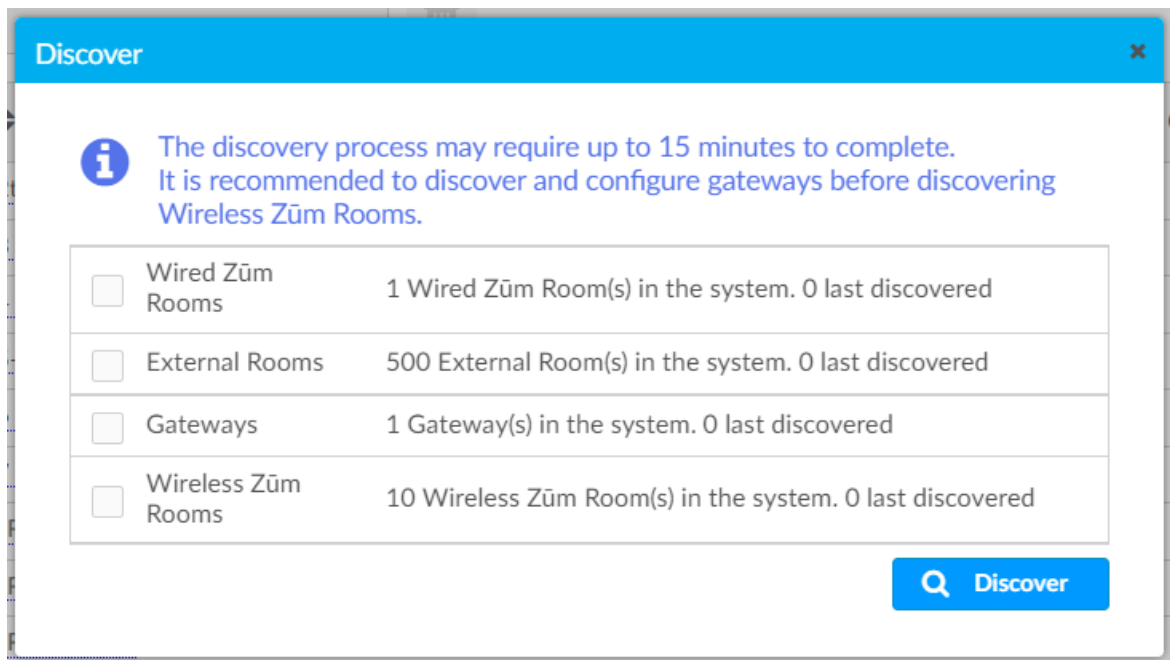
To discover rooms:

1. Click the **Actions** menu



2. Click **Discover**. The Discover window opens.
3. Select the type of rooms you want to discover.
4. Click **Discover** to Discover rooms or close the window.

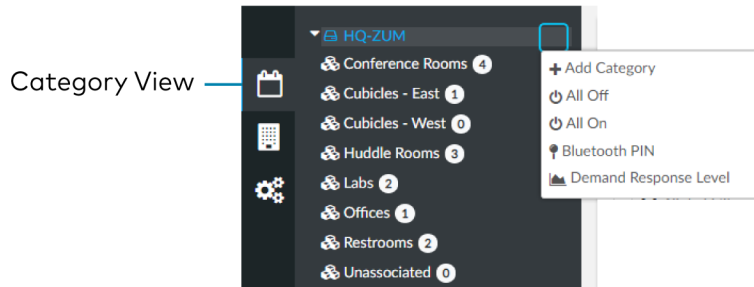
During the discover process, a **Stop** button displays as an option to stop discovering.



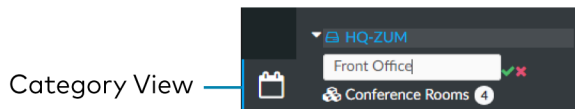
Add a Room Category

To create a room category:

1. Click the menu beside the ZUM-HUB4.



2. Click **Add Category**.
3. Type the name of the Room Category.
4. Click to save the Room Category or to cancel.

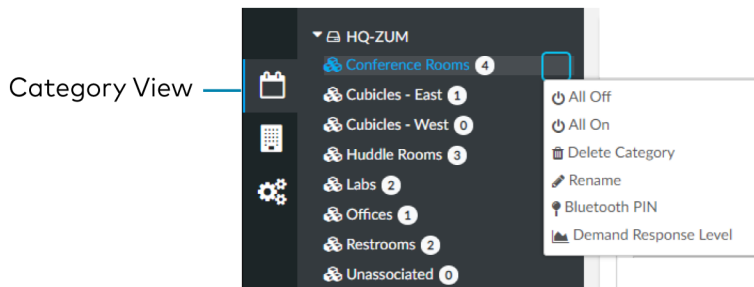


For more information about Room Categories, refer to [Manage Room Categories](#).

Rename a Room Category

Room Category names can be renamed to provide a clear description of the connected rooms.
To rename the Room Category name:

1. Click the menu beside the Room Category name.



2. Click **Rename**.
3. Click to save the Room Category or to cancel.

For more information about Room Categories, refer to [Manage Room Categories](#).

Turn Rooms On or Off

Control a room by turning on/off the all rooms, all rooms in a Room Category, all rooms on a Floor, or by choosing a lighting scene for a specific room.

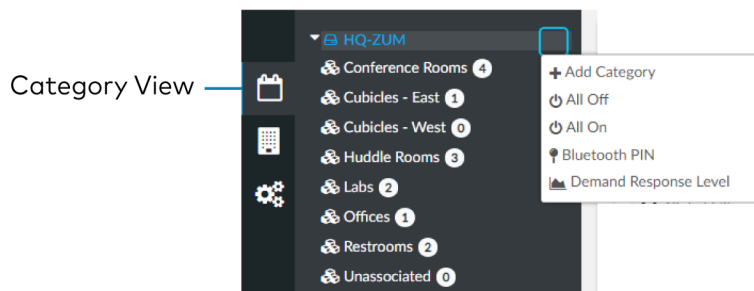
This section provides the following information:

- [Turn On/Off All Discovered Devices on page 26](#)
- [Turn On/Off a Room Category on page 26](#)
- [Turn On/Off a Floor on page 26](#)
- [Turn On/Off a Room on page 27](#)

Turn On/Off All Discovered Devices

To turn all devices on/off:

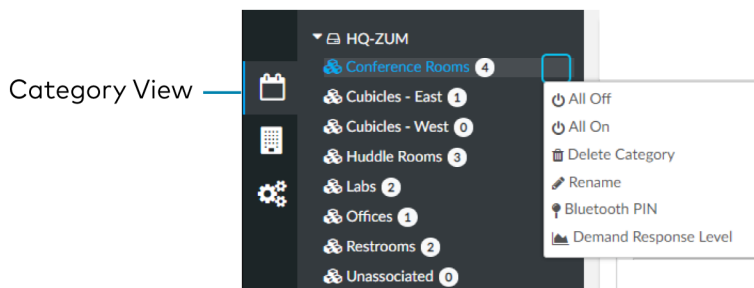
1. Open the **Category View**.
2. Click the menu beside the ZUM-HUB4.
3. Click **All Off** or **All On**.



Turn On/Off a Room Category

To turn all devices on/off in a Room Category:

1. Open the **Category View**.
2. Click the menu beside the Room Category name.
3. Click **All Off** or **All On**.

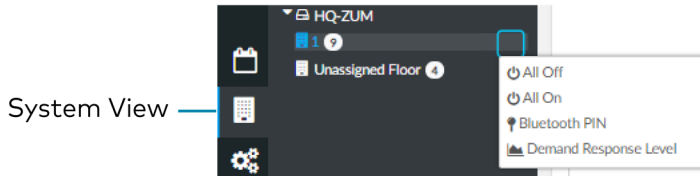


Turn On/Off a Floor

To turn all devices on/off on a Floor:

1. Open the **System View**
2. Click the menu beside the Floor name.

3. Click **All Off** or **All On**.



Turn On/Off a Room

You can turn a specific room on/off using the Control Room window, but this option provides more detailed settings. Refer to [Control Devices in a Room on page 36](#).

Set the Bluetooth PIN

The Bluetooth PIN enables a mobile device with the Zūm app to connect to the Zūm Wired Keypad or the Zūm Network Bridge. The Bluetooth PIN can be set for all discovered devices, all devices in a Room Category, all devices on a Floor, or all devices in a Room.

NOTES:

- Once a Bluetooth PIN is set for a device, it remains until manually changed. For example, if a device moves to a different room or floor, the Bluetooth PIN does not automatically inherit the PIN set for the new location. The device keeps the PIN previously set.
- For Primary load controllers running firmware 3.6.18 and higher, the default PIN is 246800. For firmware lower than 3.6.18, the default PIN is 2468.

This section provides the following information:

- [Set the Bluetooth PIN for All Discovered Devices on page 27](#)
- [Set the Bluetooth PIN for a Room Category on page 28](#)
- [Set the Bluetooth PIN for a Room on page 28](#)
- [Set the Bluetooth PIN for a Floor on page 29](#)

Set the Bluetooth PIN for All Discovered Devices

To set the Bluetooth PIN for all devices:

1. Open the **Category View**.
2. Click the menu beside the ZUM-HUB4.
3. Click **Bluetooth PIN**.
4. Set the PIN (0 to 9999).



5. Click  to save or  to cancel.

Set the Bluetooth PIN for a Room Category

To set the Bluetooth PIN for devices in a Room Category:

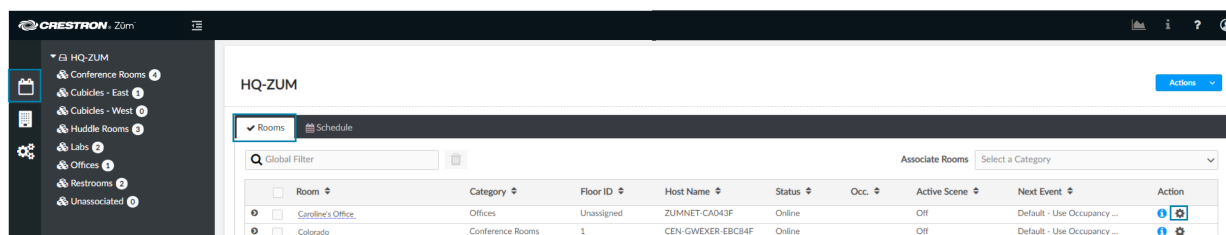
1. Open the **Category View**.
2. Click the menu beside the Room Category name.
3. Click **Bluetooth PIN**.
4. Set the PIN (0 to 9999).




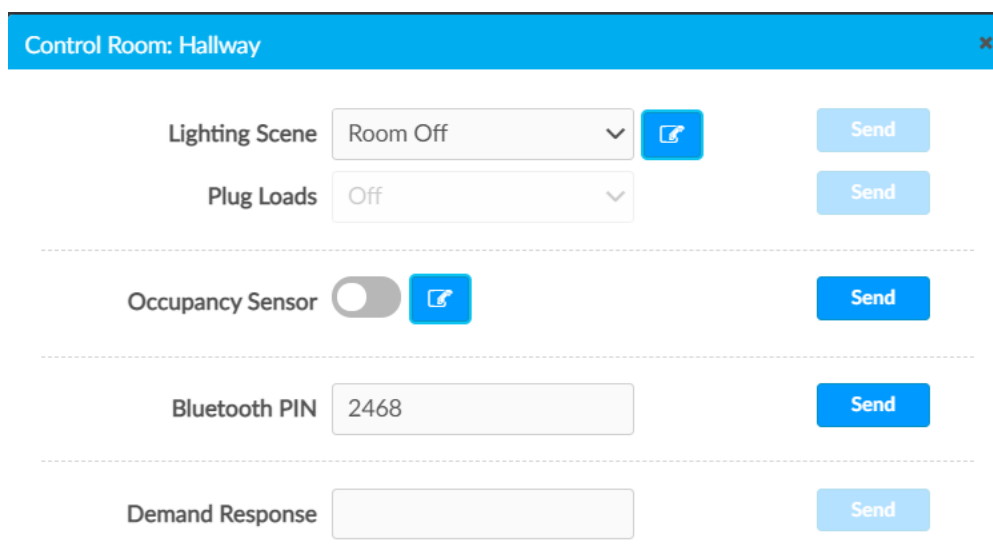
5. Click  to save or  to cancel.

Set the Bluetooth PIN for a Room

To set the Bluetooth PIN for devices in a Room:



1. Open the **Category View** and the **Room** tab.
2. Click the  to open the Control Room window.



3. For Bluetooth PIN, set the PIN (0 to 9999).
4. Click **Send** to send changes to the room, or close the Control Room window to discard unsaved changes.

Set the Bluetooth PIN for a Floor

To set the Bluetooth PIN for devices on a floor:

1. Open the **System View**.
2. Click the menu beside the Floor name.
3. Click **Bluetooth PIN**.
4. Set the PIN (0 to 9999).



5. Click  to save or  to cancel.

Configure the Demand Response Mode and Level

The Demand Response Level is used in emergency situations to override the current load settings in the room. The load levels reduce when a demand response command is received from the utility company. Demand Response Mode can be manually controlled by accessing the Actions Menu. Demand Response Levels can be set for all discovered devices, all devices in a Room Category, all devices on a Floor, or all devices in a Room.

NOTE: Once a Demand Response Level is set for a device, it remains until manually changed. For example, if a device moves to a different room or floor, the Demand Respond Level does not automatically inherit the level set for the new location. The device keeps the level previously set.

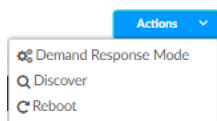
This section provides the following information:

- [Configure Demand Response Mode on page 29](#)
- [Set the Demand Response Level for All Discovered Devices on page 30](#)
- [Set the Demand Response Level for a Room Category on page 31](#)
- [Set the Demand Response Level for a Room on page 31](#)
- [Set the Demand Response Level for a Floor on page 32](#)

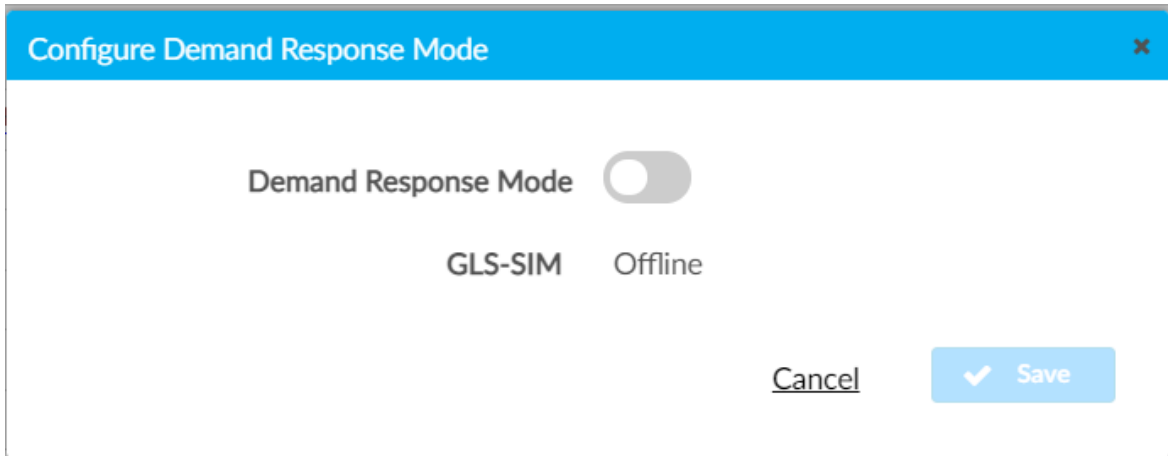
Configure Demand Response Mode

To manually turn Demand Response Mode on or off:

1. Click the **Actions** menu.



- Click **Demand Response Mode**. The Configure Demand Response Mode window opens.

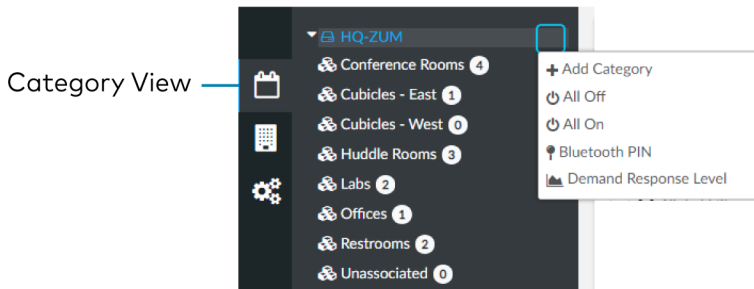


- Click the toggle turn Demand Response Mode on or off.
If a GLS-SIM has been discovered by the ZUM-HUB4, the GLS-SIM status is represented as Offline or Online.
- Click **Save** to save the settings or **Cancel** to close the window without saving.

Set the Demand Response Level for All Discovered Devices

To set the Demand Response Level for all devices:

- Open the **Category View**.
- Click the menu beside the ZUM-HUB4.
- Click **Demand Response Level**.



- Set the light level (0 to 100).

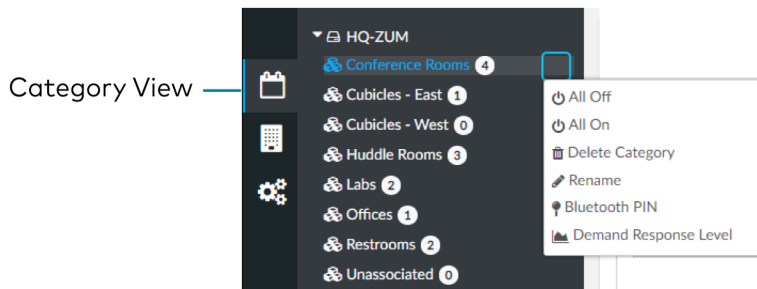


- Click  to save or  to cancel.

Set the Demand Response Level for a Room Category

To set the Demand Response Level for devices in a Room Category:

1. Open the **Category View**.
2. Click the menu beside the Room Category name.
3. Click **Demand Response Level**.



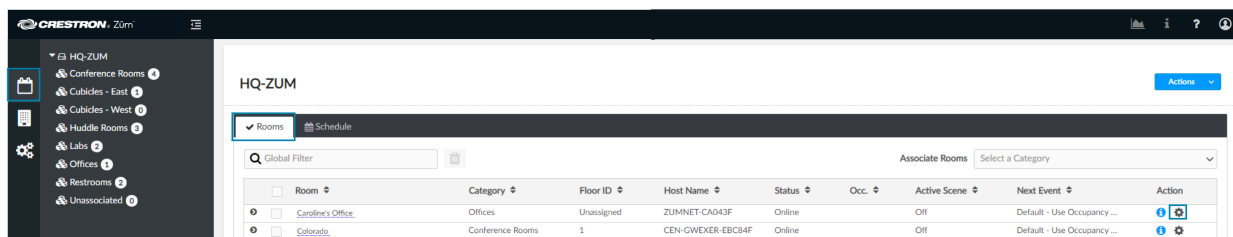
4. Set the light level (0 to 100).




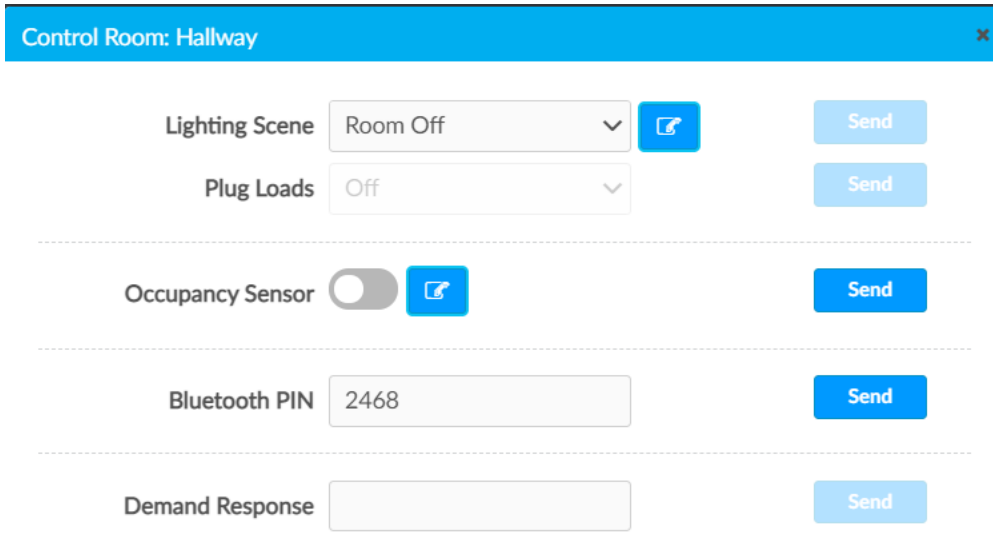
5. Click  to save or  to cancel.

Set the Demand Response Level for a Room

To set the Demand Response Level for devices in a Room:



1. Open the **Category View** and the **Room** tab.
2. Click the  to open the Control Room window.



The 'Control Room: Hallway' window contains the following controls:

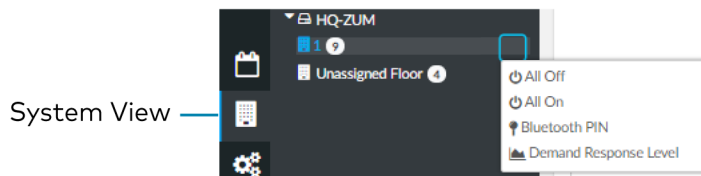
- Lighting Scene:** A dropdown menu set to 'Room Off' with a blue 'Send' button to its right.
- Plug Loads:** A dropdown menu set to 'Off' with a blue 'Send' button to its right.
- Occupancy Sensor:** A toggle switch in the 'Off' position with a blue 'Send' button to its right.
- Bluetooth PIN:** A text input field containing '2468' with a blue 'Send' button to its right.
- Demand Response:** An empty text input field with a blue 'Send' button to its right.

3. For Demand Response, set the level (0 to 100).
4. Click **Send** to send changes to the room, or close the Control Room window to discard unsaved changes.

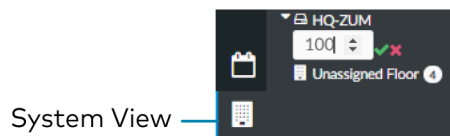
Set the Demand Response Level for a Floor

To set the Demand Response Level for devices on a Floor:

1. Open the **System View**.
2. Click the menu beside the Floor name.
3. Click **Demand Response Level**.



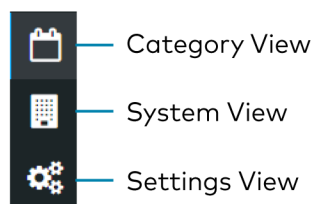
4. Set the light level (0 to 100).



5. Click  to save or  to cancel.

Manage Rooms

The **Rooms** tabs lists the Rooms discovered by the ZUM-HUB4 or the rooms assigned to a selected Room Category. Use the **Rooms** tab search for a room, delete rooms, reassign room categories, edit a room name, view room details, or control a room. Access the Rooms tab through either the Category View or the System View tabs.



Rooms must be discovered by the ZUM-HUB4 before performing any procedure in this section. Refer to [Discover Rooms on page 24](#).

Manage rooms Find rooms Delete selected rooms Add Room to Room Category

Rooms Schedule

Global Filter

Associate Rooms Select a Category

Room	Category	Floor ID	Host Name	Status	Occ.	Active Scene	Next Event	Action
<input type="checkbox"/> Caroline's Office	Offices	Unassigned	ZUMNET-CA043F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Colorado	Conference Rooms	1	CEN-GWEXER-EBC84F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Cubicles - Northeast	Cubicles - East	Unassigned	ZUMNET-CA0453	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Downstairs Restrooms	Restrooms	1	CEN-GWEXER-EBC84F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Hundred Acres	Conference Rooms	1	CEN-GWEXER-EBC84F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Network Team	Labs	1	CEN-GWEXER-EBC84F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Olybue	Conference Rooms	1	CEN-GWEXER-EBC84F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Olympus	Conference Rooms	1	CEN-GWEXER-EBC84F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Prototyping	Labs	1	CEN-GWEXER-EBC84F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Room 206	Huddle Rooms	Unassigned	ZUMNET-CA045E	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Room 207	Huddle Rooms	1	CEN-GWEXER-EBC84F	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Room 208	Huddle Rooms	Unassigned	ZUMNET-CA0427	Online		Off	Default - Use Occupancy ...	
<input type="checkbox"/> Upstairs Restrooms	Restrooms	1	CEN-GWEXER-EBC84F	Online		Off	Default - Use Occupancy ...	

Expand room Select one room or multiple View room details Configure room controls

Review Rooms

The Room list displays room information including built-in components.

Expand room

Room	Category	Floor ID	Host Name	Status	Occ.	Active Scene	Next Event	Action																								
<input type="checkbox"/> Caroline's Office	Offices	Unassigned	ZUMNET-CA043F	Online		Off	Default - Use Occupancy ...																									
<table border="1"><thead><tr><th>Name</th><th>Model</th><th>Serial Number</th><th>Firmware Version</th><th>Status</th><th>Details</th></tr></thead><tbody><tr><td>ZUMNET-JBOX-16A-LV-6847-2</td><td>ZUMNET-JBOX-16A-LV</td><td>123456847-2</td><td>1.001.00038</td><td>Online</td><td></td></tr><tr><td>ZUMNET-JBOX-16A-LV-6847-3</td><td>ZUMNET-JBOX-16A-LV</td><td>123456847-3</td><td>1.001.00038</td><td>Online</td><td></td></tr><tr><td>ZUMNET-JBOX-16A-LV-6847-1</td><td>ZUMNET-JBOX-16A-LV</td><td>123456847-1</td><td>1.001.00038</td><td>Online</td><td></td></tr></tbody></table>									Name	Model	Serial Number	Firmware Version	Status	Details	ZUMNET-JBOX-16A-LV-6847-2	ZUMNET-JBOX-16A-LV	123456847-2	1.001.00038	Online		ZUMNET-JBOX-16A-LV-6847-3	ZUMNET-JBOX-16A-LV	123456847-3	1.001.00038	Online		ZUMNET-JBOX-16A-LV-6847-1	ZUMNET-JBOX-16A-LV	123456847-1	1.001.00038	Online	
Name	Model	Serial Number	Firmware Version	Status	Details																											
ZUMNET-JBOX-16A-LV-6847-2	ZUMNET-JBOX-16A-LV	123456847-2	1.001.00038	Online																												
ZUMNET-JBOX-16A-LV-6847-3	ZUMNET-JBOX-16A-LV	123456847-3	1.001.00038	Online																												
ZUMNET-JBOX-16A-LV-6847-1	ZUMNET-JBOX-16A-LV	123456847-1	1.001.00038	Online																												
<input type="checkbox"/> Colorado	Conference Rooms	1	CEN-GWEXER-EBC84F	Online		Off	Default - Use Occupancy ...																									

View room details

- Room: Displays the room name
- Category: Displays the Room Category
- Floor ID: Displays the Floor ID. The Floor ID can be set in the Hardware Management tab of the Systems View. A Floor ID cannot be assigned to an External Room.
- Host Name: Displays the Host Name of room's main device.
- Status: Displays the room status Online of Offline.

- Occ: Identifies a room with an Occupancy Sensor. The Occupancy sensor symbols (🚫) displays when occupancy is detected.
- Active Scene: Displays the current Scene.
- Next Event: Displays the upcoming event.
- Information (ℹ️): Displays room details.
 - Hostname: Displays the Hostname.
 - Room Type: Wired, Wireless, or External room
 - ID: Displays the IP ID for a Wired room, the RF ID for a Wireless room, and the Module ID for an External room
 - Mirror Module: Indicates whether the room is associated with a Mirror Room
 - Occupancy Sensor State: Displays if the Occupancy Sensor is Enabled or Disabled
 - Plug Load State: Displays if the Plug Load is ON or OFF
 - Last Scene Changed: Displays the date and time of the last Scene change.
 - Last Online Status Changed: Displays the date and time of the last Online Status change
 - Last Occupancy Status Changed: Displays the date and time of the last Occupancy Status change

Room Details: Caroline's Office	
Hostname	ZUMNET-CA043F
Room Type	Wired Zum Room
ID	106
Mirror Module	Inactive
Occupancy Sensor State	Enable
Plug Load State	ON
Last Scene Changed	Unknown
Last Online Status Changed	8/2/2021 02:40 PM
Last Occupancy Status Changed	Unknown

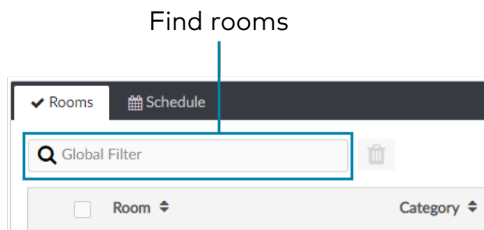
Click ⓘ to expand the room to display information regarding the components. The Name, Model, Serial Number, Firmware Version, and Status of the devices are defined.

Room 206		Hubble Room	Unassigned	ZUMNET-CA0427	Online	Off	Default - Use Occupancy @ 04:00 PM	
Name		Model	Serial Number	Firmware Version	Status	Details		
ZUMLINK JBOK 16A LV C05D-0		ZUMLINK JBOK 16A LV	TS033F4D1ED-0	1.001.00038	Online			
ZUMLINK JBOK 16A LV C05D-0		ZUMLINK JBOK 16A LV	TS033F4D1ED-0	1.001.00038	Online			
ZUMLINK JBOK 16A LV C05D-0		ZUMLINK JBOK 16A LV	TS033F4D1ED-0	1.001.00038	Online			
ZUMLINK JBOK 16A LV C05D-1		ZUMLINK JBOK 16A LV	TS033F4D1ED-1	1.001.00038	Online			
ZUMLINK JBOK 16A LV C05D-1		ZUMLINK JBOK 16A LV	TS033F4D1ED-1	1.001.00038	Online			
ZUMLINK JBOK 16A LV C05D-2		ZUMLINK JBOK 16A LV	TS033F4D1ED-2	1.001.00038	Online			
ZUMNET JBOK 16A LV S0EE-0		ZUMNET JBOK 16A LV	TS033F4D1ED-0	1.001.00038	Online			
ZUMNET JBOK 16A LV S0EE-2		ZUMNET JBOK 16A LV	TS033F4D1ED-2	1.001.00038	Online			
ZUMNET JBOK 16A LV S0EE-1		ZUMNET JBOK 16A LV	TS033F4D1ED-1	1.001.00038	Online			

Find a Room on the ZUM-HUB4

For a ZUM-HUB4 that has a large number of rooms, use the search feature to find a room name.
To search for a room:

1. Click on the ZUM-HUB4 or on a Room Category.
2. Type in the Global Filter search bar. The filter populates results matching content in any of the table fields (Room, Category, Floor ID, Host Name, Status, Occ., Active Scene, or Next Event).

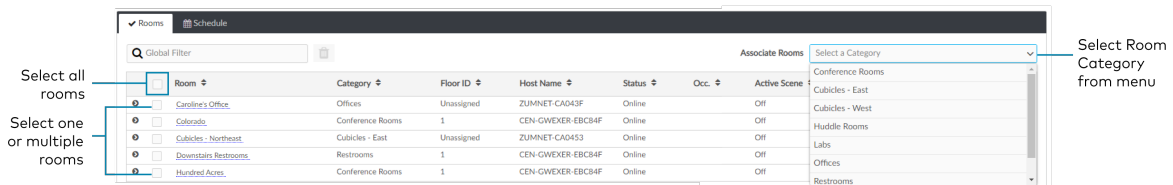


3. Click the desired room name.

Add a Room to a Room Category

To move a room to a different Room Category:


1. Click on the ZUM-HUB4 or on a Room Category.
2. Select the desired room or rooms.
3. Click the **Associate Rooms** menu.
4. Select the desired Room Category.

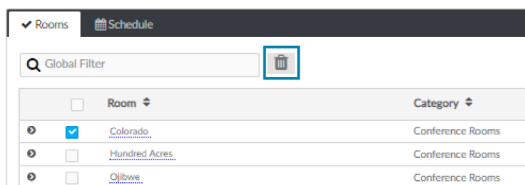


5. A confirmation dialog opens. Click **Yes** to add the room(s) the Room Category or **No** to cancel.

Delete a Room

To delete a room:


1. Click on the ZUM-HUB4 or on a Room Category.
2. Select the desired room or rooms.
3. Click  to delete the room.

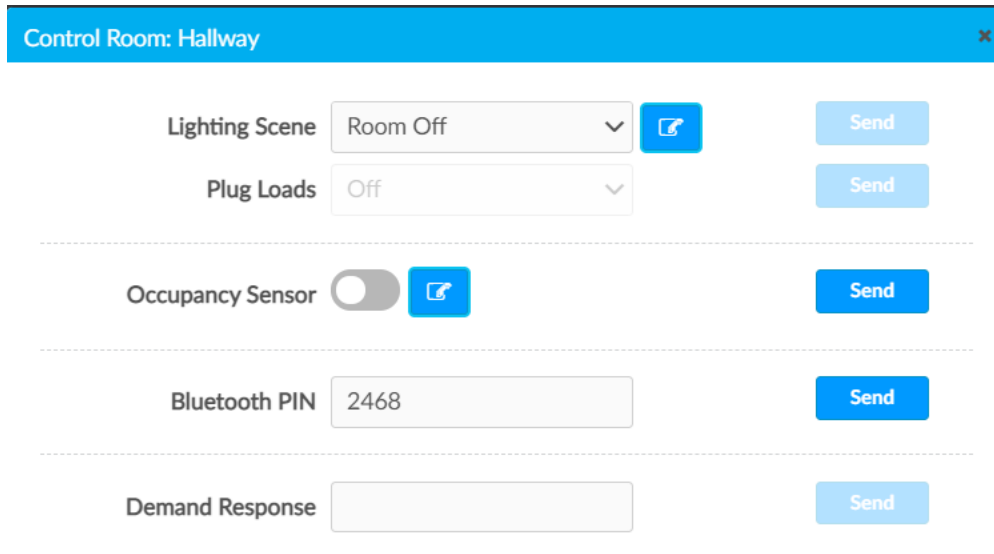


4. A confirmation dialog opens. Click **Yes** to add the room(s) the Room Category or **No** to cancel.


Control Devices in a Room


Open the Control Room window to select a Lighting Scene, change the state of Plug Loads, enable or disable the occupancy sensor, set the Bluetooth PIN, or set the Demand Response level for a specific room.



1. Click on the ZUM-HUB4 or on a Room Category.
2. For the desired room, click the  to open the Control Room options.




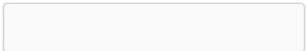
Control Room: Hallway

Lighting Scene Room Off  Send

Plug Loads Off  Send


Occupancy Sensor   Send

Bluetooth PIN 2468  Send

Demand Response  Send

Lighting Scene

To select the Lighting Scene set in the Room:

1. Select a Lighting Scene from the drop down menu.
2. Click  to access the devices in the room.
3. To edit the light levels, move the slider or use the arrows. For switches, select **ON** or **OFF**.
4. Click **Send** to send changes to the room, or close the Control Room to discard unsaved changes.

Plug Loads

This setting is only active for rooms with a Plug Load Controller.

1. Select **On** or **Off** from menu to turn the load on or off.
2. Click **Send** to send changes to the room, or close the Control Room to discard unsaved changes.

Occupancy Sensor

To enable or temporarily disable occupancy sensing:

1. Click the toggle to enable or temporarily disable occupancy sensing.
When disabling occupancy sensing, set the amount of time the occupancy sensor is disabled. The sensor may be disabled for up to 1,415 minutes or appropriately 23 hours.
2. Click **Send** to send changes to the room, or close the Control Room to discard unsaved changes.

Bluetooth PIN

Set the Bluetooth PIN for Bluetooth devices in a room.

1. Set the PIN (0 to 9999)
2. Click **Send** to send changes to the room, or close the Control Room to discard unsaved changes.

Refer to [Set the Bluetooth PIN on page 27](#) for more information.

Demand Response Level

Set the Demand Response Level for devices in a room.

1. Set the level (0 to 100).
2. Click **Send** to send changes to the room, or close the Control Room to discard unsaved changes.

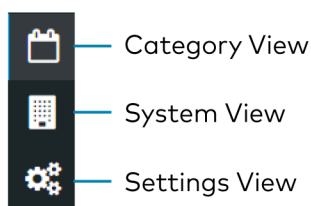
Refer to [Configure the Demand Response Mode and Level on page 29](#) for more information.

Schedule Room Behavior

The Schedule tab displays and allows you to edit the device calendar, Day Patterns, Room States, Holidays, and the astronomical clock. The calendar displays a color-coded month view that identifies the Day Pattern that is assigned for each day of the month. The calendar is used to view and change which Day Pattern is set on a given day.

By default, weekdays are assigned the Workday Day Pattern and weekends are assigned the Weekend Day Pattern. Holidays that are enabled in [Holidays on page 45](#) are added to the calendar automatically. Refer to the Day Pattern legend to match the color with the associated Day Pattern. To assign a Day Pattern:

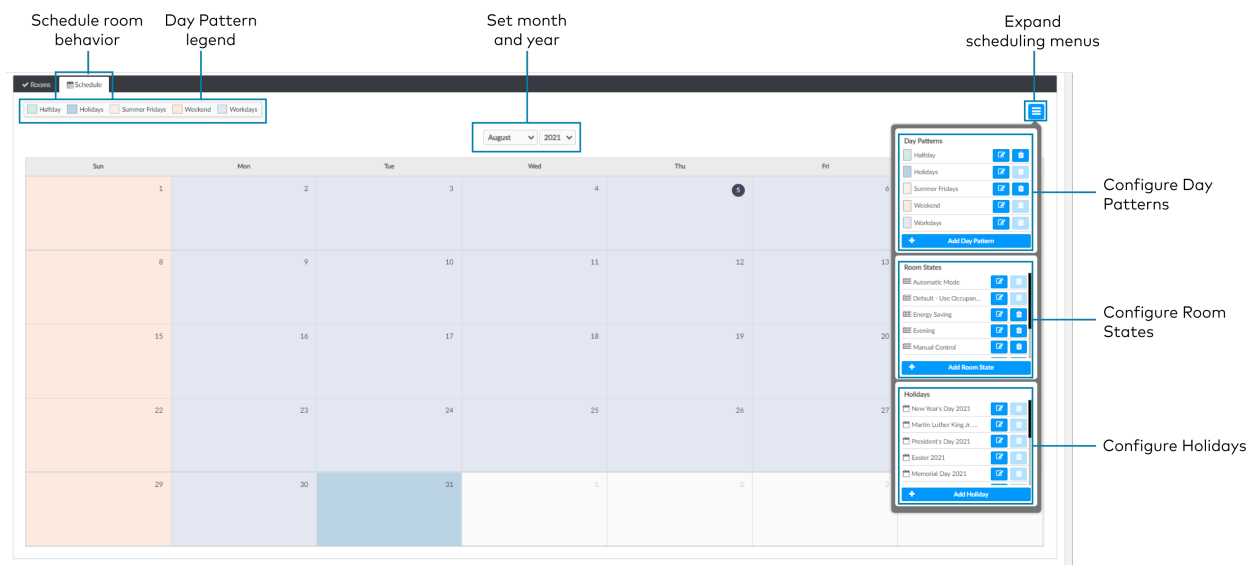
1. Open the Category View.




2. Click the **Schedule** tab.
3. Click the desired date in the calendar. If necessary, change the month and year using the drop-down menus, and then click the desired date.

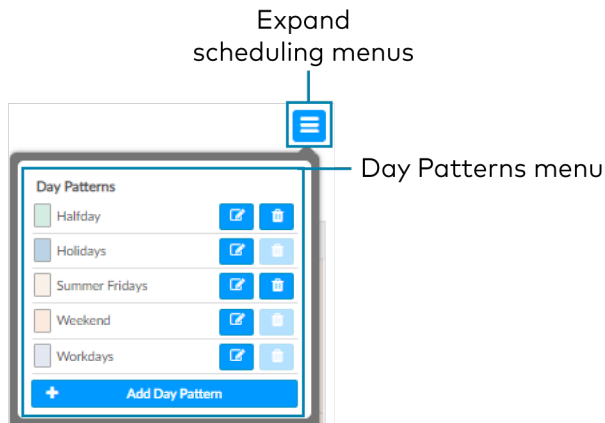
A menu displays a list of the available Day Patterns.

4. Select the desired Day Pattern.



Day Patterns

A Day Pattern consists of various Room States that are assigned throughout the day. Each category can be assigned a different schedule of room states in a given day pattern. To access the Day Patterns menu, click the Schedule tab and click  to expand the scheduling menus.




Add Day Patterns

Click **Add Day Pattern** and enter the desired Day Pattern name. Click  to save the name, click  to cancel.


Delete Day Pattern

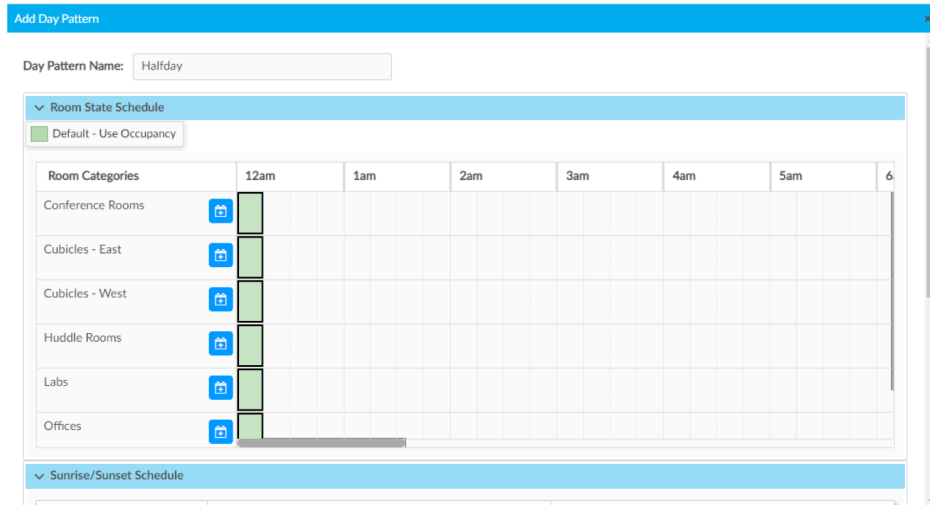
To delete a Day Pattern:

1. Click  to delete a Day Pattern. A Confirmation window opens.
2. Click **Yes** to delete the Day Pattern, or click **No** to keep the Day Pattern.

NOTE: A Default Day Pattern (such as Holidays, Weekend, and Workdays) cannot be deleted.

Configure Day Patterns

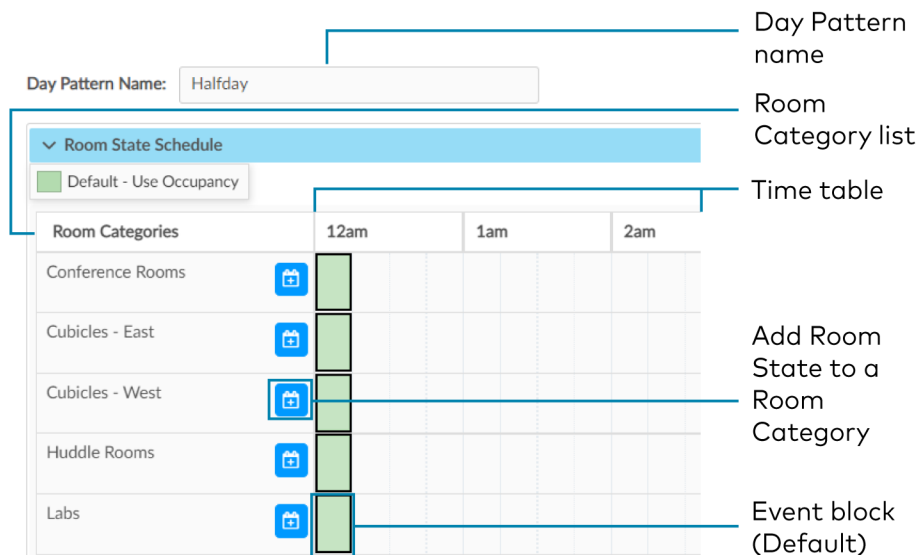
After adding a Day Pattern, the **Add Day Pattern** window opens. Alternatively, clicking  beside a Day Pattern opens the **Edit Day Pattern** window. These windows display two menus: Room State Schedule and Sunrise/Sunset Schedule. The Room State Schedule opens by default.



The screenshot shows the 'Add Day Pattern' window with the title bar 'Add Day Pattern'. Below the title bar, there is a text field 'Day Pattern Name:' with the value 'Halfday'. The main content area is divided into two sections: 'Room State Schedule' and 'Sunrise/Sunset Schedule'. The 'Room State Schedule' section is active and shows a table with columns for time slots (12am, 1am, 2am, 3am, 4am, 5am, 6am) and rows for room categories (Conference Rooms, Cubicles - East, Cubicles - West, Huddle Rooms, Labs, Offices). Each row has a blue icon with a calendar symbol next to it. The 'Sunrise/Sunset Schedule' section is collapsed.

Room State Schedule


Use the Room State Schedule window to modify the pattern of Room States in each Category for the selected Day Pattern.

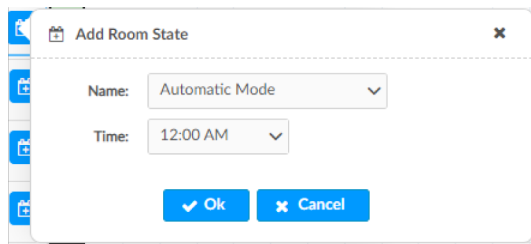


This annotated screenshot shows the 'Room State Schedule' window with labels pointing to various components:


- Day Pattern name:** Points to the 'Day Pattern Name:' text field containing 'Halfday'.
- Room Category list:** Points to the 'Room Categories' list on the left side of the table.
- Time table:** Points to the table structure with time slots (12am, 1am, 2am) as columns.
- Add Room State to a Room Category:** Points to the blue calendar icon in the 'Cubicles - West' row.
- Event block (Default):** Points to the green event block in the 'Labs' row at the 12am slot.

To add a Room State to a Room Category:

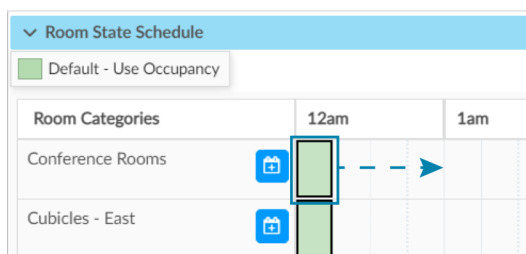
1. Click  to add a Room State. The **Add Room State** window opens.
2. Select the desired Room State from the Name drop-down menu. The default Room State selections are examples of possible Room State applications and can be edited as needed.
 - Automatic Mode
 - Default - Use Occupancy
 - Energy Saving
 - Manual Control
 - Morning Turn Off
 - Morning Turn On
 - Sweep Off
3. Select the desired Room State start time from the Time drop-down menu: 12 AM - 11:45 PM.
4. Click **Ok** to save the room state or **Cancel** to close the window without saving.



To edit a default or custom event block:

- Change the assigned Room State:
 1. Click an event block, and a dialog opens.
 2. Click  and choose a new Room State from the drop-down menu.
 3. Click **Ok** to save the changes or **Cancel** to close the window without saving.
- Change the assigned time:

Click and drag the event block to the desired time within the time table.



Click and drag the event block to the desired time along the time table.

Sunrise/Sunset Schedule

The ZUM-HUB4 determines sunrise and sunset based on the location set in [Location on page 53](#) settings. The Sunrise/Sunset Schedule assigns a Room State to a Room Category based on the Day Pattern and the sunrise or sunset. Only one Sunrise event and one Sunset event can be set for a Room Category per day. To assign Room States based on the sunrise or sunset:

1. Expand the Sunrise/Sunset Schedule menu.
2. Locate the Room Category.
3. Adjust the settings in the Sunrise events column and/or the Sunset events column.
 - **ENABLE:** Click the **ENABLE** toggle to allow sunrise or sunset to trigger an event.
 - **ROOM STATE:** Select the a Room State from the drop-down menu.
 - **OFFSET (MIN):** If necessary, set an offset duration in minutes. The offset can be positive so the Room State occurs after sunrise or sunset or negative so that the Room State occurs before sunrise or sunset.

The screenshot shows the 'Sunrise/Sunset Schedule' configuration page. On the left, a 'Room Category list' contains 'Conference Rooms' and 'Cubicles - East'. The main area is divided into 'Sunrise events' and 'Sunset events' columns. Each column has a header row with 'SUNRISE' and 'SUNSET' respectively, showing the current date and time. Below this is a table with columns for 'ENABLE', 'ROOM STATE', and 'OFFSET (MIN)'. Annotations with arrows point to specific elements: 'ENABLE' points to the toggle switch for 'Conference Rooms' in the Sunrise column; 'ROOM STATE' points to the dropdown menu for 'Conference Rooms' in the Sunrise column; 'OFFSET (MIN)' points to the numeric input field for 'Conference Rooms' in the Sunrise column.


Room Category	Sunrise events	Sunset events
Conference Rooms	SUNRISE 08/03/2021 04:54 AM ENABLE: <input checked="" type="checkbox"/> ROOM STATE: Default - Use Occupancy OFFSET (MIN): 0	SUNSET 08/03/2021 07:10 PM ENABLE: <input checked="" type="checkbox"/> ROOM STATE: Default - Use Occupancy OFFSET (MIN): 0
Cubicles - East	ENABLE: <input type="checkbox"/> ROOM STATE: Default - Use Occupancy OFFSET (MIN): 0	ENABLE: <input type="checkbox"/> ROOM STATE: Default - Use Occupancy OFFSET (MIN): 0

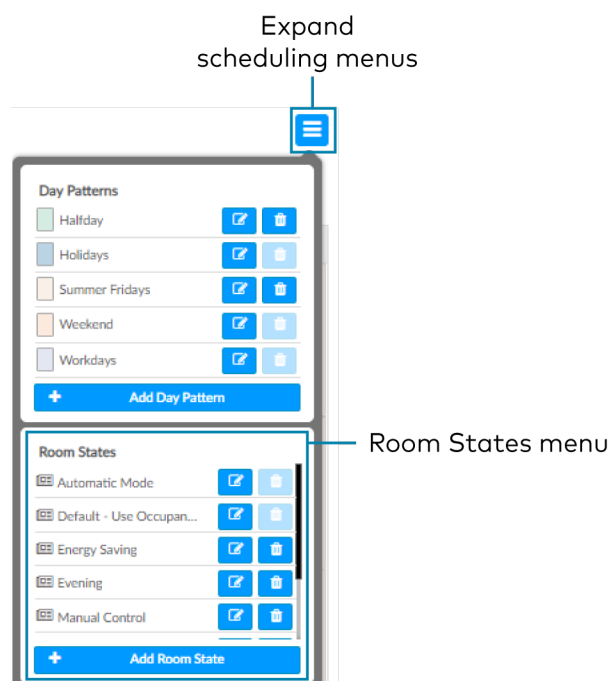
ENABLE: Allow sunrise or sunset determine the Room State start time.

ROOM STATE: Select a Room State for the sunrise or sunset event.


OFFSET (MIN): Set offset duration (-300 minutes to +300 minutes).

Room States

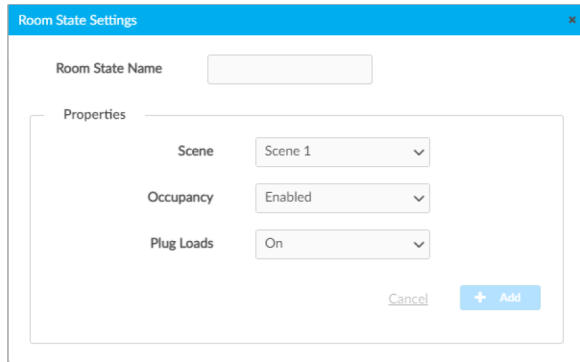
A Room State is both a set of events as well as a set of behaviors for a Room Category. It identifies the lighting scene that is recalled, the functionality of the occupancy sensor and the plug load controllers. To access the Room States menu, click the **Schedule** tab and click  to expand the scheduling menus.



Configure a Room State


Click **Add Room State** to add a new Room state or  to edit an existing Room State. The **Room State Settings** window opens. To configure a Room State in the **Room State Settings** window:

1. Enter or edit the name of the desired Room State in the **Room State Name** field.
2. Configure the Properties:
 - **Scene:** Select Scene 1 - 16, **None**, or **Room Off**.
 - **Occupancy:** Select **Enabled** to allow occupancy sensing, **Disabled** to turn occupancy sensing off, or **Unaffected** to use the setting of the previous event.
 - **Plug Loads:** Select **On** to turn on the Plug loads, **Off** to turn off the Plug Loads, or **Unaffected** to use the setting of the previous event.
3. Click **Cancel** to close the window without saving, or **Add** to add the Room State.

A screenshot of a software dialog box titled "Room State Settings". At the top, there is a text input field labeled "Room State Name". Below this, a section titled "Properties" contains three dropdown menus: "Scene" (set to "Scene 1"), "Occupancy" (set to "Enabled"), and "Plug Loads" (set to "On"). At the bottom right of the "Properties" section, there are two buttons: a "Cancel" button and a blue "+ Add" button.


Delete a Room State

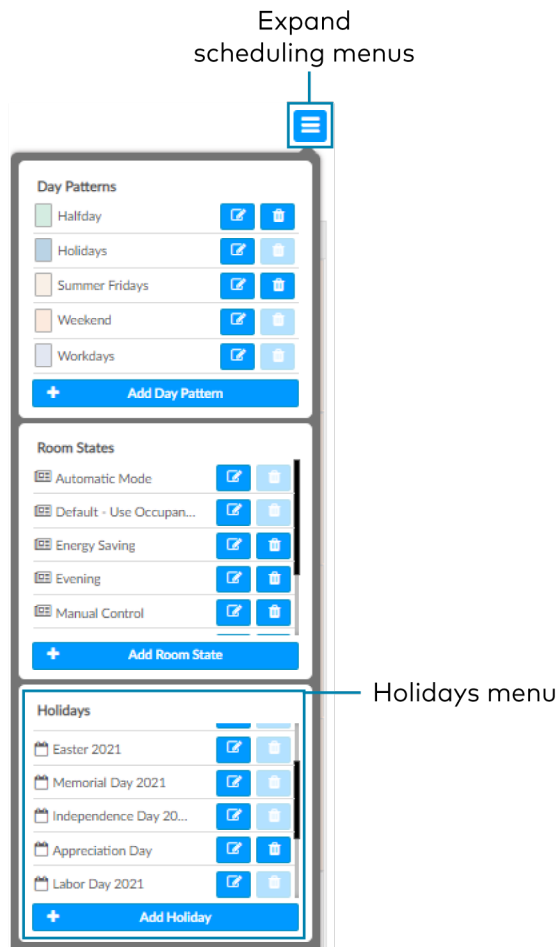
To delete a Room State:

1. Click  to delete a Room State. A confirmation window opens.
2. Click **Yes** to delete the Room State, or click **No** to keep the Day Pattern.



NOTE: A Default Room State (such as Automatic Mode and Default - Use Occupancy) cannot be deleted.

Holidays

The Holidays menu allows you to create a new holiday and to edit the holiday properties. Holidays that are enabled are automatically added to the calendar in the **Schedule** tab. To access the Holidays menu, click the **Schedule** tab and click  to expand the scheduling menus.




Add Holidays

Click **Add Holiday** and type the desired Holiday name. Click  to save the name, click  to cancel.


Delete a Holiday

To delete a Holiday:

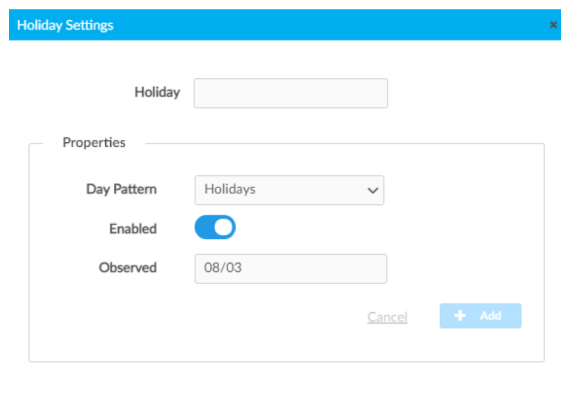
1. Click  to delete a Holiday. A confirmation window opens.
2. Click **Yes** to delete the Holiday, or click **No** to keep the Holiday.

NOTE: A default Holiday cannot be deleted.

Configure Holidays

After adding a Holiday, the **Holiday Settings** window opens. Alternatively, clicking  beside a Holiday opens the **Edit Holiday Settings** window. These windows display the Holiday settings. To configure Holidays in the **Holiday Settings** window:

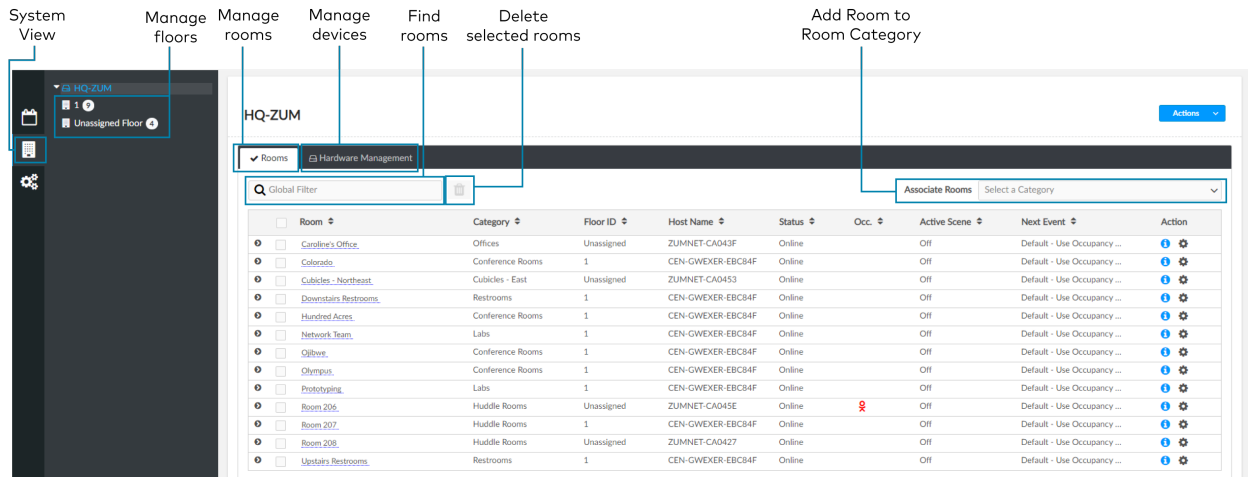
1. Enter or edit the name of the desired Holiday in the **Holiday** field.
2. Configure the Properties:
 - **Day Pattern:** By default, the Holiday Day Pattern is selected
 - **Enabled:** By default, the Enabled toggle is on. Turn the toggle off to prevent the holiday from appearing in the calendar on the **Schedule** tab. When the toggle is off, the default Day Pattern is applied instead.
 - **Observed:** Select a date to observe the holiday.
3. Click **Add** to add the Holiday or **Cancel** to close the window.



Manage Floors

Rooms must be discovered by the ZUM-HUB4 before performing any procedure in this section. Refer to [Discover Rooms on page 24](#). Access Floors in the System View. To manage a Floor, refer to the following information:

- [Turn On/Off a Floor on page 26](#)
- [Set the Bluetooth PIN for a Floor on page 29](#)
- [Set the Demand Response Level for a Floor on page 32](#)
- [Manage Rooms on page 33](#)
- [Manage Devices on page 47](#)



Manage Devices

In the System View, manage devices in the Hardware Management tab. Devices are divided into two categories: **Wired** and **Wireless**. Expand the Wireless menu to view and edit wireless devices. Expand the Wired menu to view and edit wired devices.

Rooms must be discovered by the ZUM-HUB4 before performing any procedure in this section. Refer to [Discover Rooms on page 24](#).

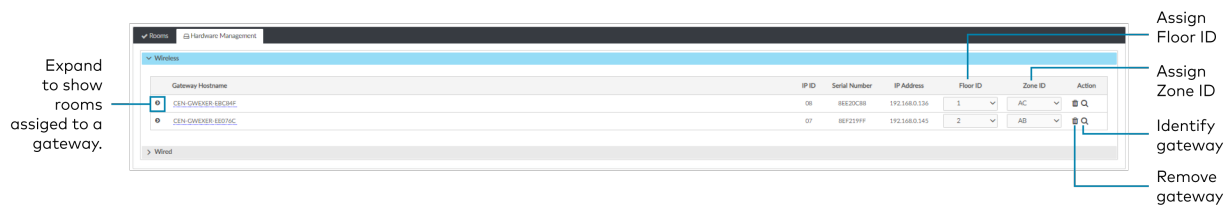


Wireless Devices

Access wireless gateways in the **Hardware Management** tab and expand the **Wireless** menu. View information about the gateway, assign Floor or Zone IDs, and identify or remove a gateway. To view, move, and delete the rooms assigned to the gateway, refer to [Review Rooms Assigned to a Gateway on page 48](#).

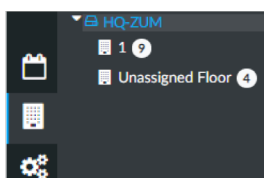
Information about the gateway:

- Gateway Hostname: Displays the gateway's name.
- IP ID: Displays the gateway's IP ID.
- Serial Number: Displays the gateway's serial number.
- IP Address: Displays the gateway's IP address.
- Floor ID: Refer to [Assign a Floor ID to a Gateway on page 48](#).
- Zone ID: Refer to [Assign a Floor ID to a Gateway on page 48](#).
- Action: Refer to [Identify a Gateway on page 48](#) and [Remove a Gateway on page 48](#).



Assign a Floor ID to a Gateway

Assigning a Floor ID to a gateway helps gateways discover wireless devices with the matching Floor ID. Set a device's Floor ID in the Zūm app before discovering the devices on the ZUM-HUB4. The Floor ID drop-down menu options are numbers -40 to + 200 and Disabled. The Floor ID can be negative to indicate a floor below ground or positive to indicate a level above ground. Disabled categorizes the gateway to Unassigned Floor.



Assign a Zone ID to a Gateway

To designate different areas of a floor as a zone, assign a gateway a Zone ID. Assigning a Zone ID to a gateway helps gateways discover wireless devices with the matching Zone ID. Set a device's Zone ID in the Zūm app before discovering the devices on the ZUM-HUB4. The Zone ID drop-down menu options are letter groupings AA to AZ and BA to BF.

Identify a Gateway

To identify a gateway, click . The SETUP LED on the gateway flashes.


Remove a Gateway

To delete a gateway, click . A confirmation window opens. Click **Yes** to delete the gateway, or **No** to keep the gateway.


Review Rooms Assigned to a Gateway

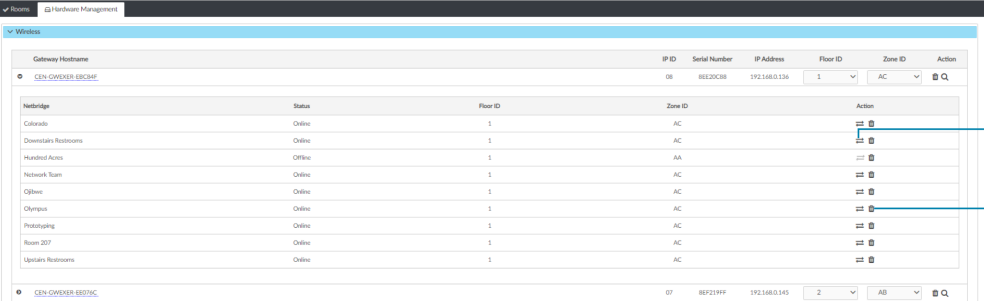
Click next to a gateway to view its assigned rooms:

- **Netbridge:** Lists assigned rooms.
- **Status:** Displays Online or Offline to show the device status.
- **Floor ID:** Inherits the Floor ID assigned to the gateway.
- **Zone ID:** Inherits the Zone ID assigned to the gateway

- **Action:** Move a room to a different gateway or remove a room.
 - Click  to move a room. The Move window opens.
 - Select the desired gateway from the drop-down menu.
 - Click **Move** to move the room or **Cancel** to close the window without moving the room.

NOTE: Moving a room to a gateway with different a Floor ID or Zone ID changes the room's Floor ID or Zone ID to match the new gateway.

- Click  to remove a room. A confirmation window opens. Click **Yes** to delete the room or **Cancel** to close the window without deleting the room.

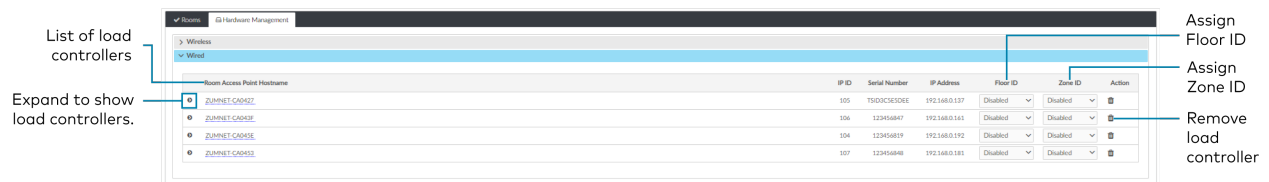


The screenshot shows the 'Rooms' tab in the 'Hardware Management' section. It displays a table of rooms with columns for Gateway Hostname, IP ID, Serial Number, IP Address, Floor ID, Zone ID, and Action. The 'Action' column contains icons for moving a room to a different gateway and removing a room. Callouts point to these icons with the text 'Move room to a different gateway' and 'Remove room'.

Wired Devices

Access wired Room Access Points in the **Hardware Management** tab and expand the **Wired** menu. A Room Access Point (RAP) is the main device in the room. View information about the RAP, assign Floor or Zone IDs, or remove an RAP. To view devices connected to RAP, refer to [Review RAP Components on page 50](#).

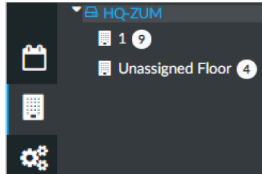
- **Room Access Point Hostname:** Displays the main device's name.
- **IP ID:** Displays the main device's IP ID.
- **Serial Number:** Displays the main device's serial number.
- **IP Address:** Displays the main device's IP address.
- **Floor ID:** Refer to [Assign a Floor ID to an RAP on page 50](#).
- **Zone ID:** Refer to [Assign a Zone ID to an RAP on page 50](#).
- **Action:** Refer to [Remove a RAP on page 50](#).



The screenshot shows the 'Wired' menu expanded in the 'Rooms' tab. It displays a table of Room Access Points (RAPs) with columns for Room Access Point Hostname, IP ID, Serial Number, IP Address, Floor ID, Zone ID, and Action. Callouts point to the 'List of load controllers' (the table header), 'Expand to show load controllers' (the expand icon), 'Assign Floor ID' (the Floor ID dropdown), 'Assign Zone ID' (the Zone ID dropdown), and 'Remove load controller' (the remove icon).

Assign a Floor ID to an RAP


Assigning a Floor ID to a load controller adds a floor to the Floor list. The Floor ID drop-down menu options are numbers -40 to + 200 and Disabled. The Floor ID can be negative to indicate a floor below ground or positive to indicate a level above ground. Disabled categorizes the load controller to Unassigned Floor.



Assign a Zone ID to an RAP

To designate different areas of a floor as a zone, assign a load controller a Zone ID. The Zone ID drop-down menu options are letter groupings AA to AZ and BA to BF.


Remove a RAP

To delete a load controller, click . A confirmation window opens. Click **Yes** to delete the load controller, or **No** to keep the load controller.







Review RAP Components

Click  next to a load controller to view connected devices.

- **Device:** Displays child devices connected to the parent load controller.
- **Status:** Displays Online or Offline to show the child device's status.
- **Cresnet ID:** Displays the child device's Cresnet® control network ID.
- **Serial Number:** Displays the child device's serial number.
- **Version:** Displays the child device's current firmware version.

- **Components:** Click  to view the child device components. Components displays the internal functions of a load controller, such as the internal occupancy sensors, photocell, and load controller, as well as other devices connected to the device, such as a keypad.
 - Name: For internal components, the name of the component is the device name plus the suffix "-1," "-2," or "-3."
 - -1: Load Controller component: Controls the connected loads.
 - -2: Occupancy sensor component: Uses occupancy to control the connected loads.
 - -3: Photocell component: Uses ambient light to control the connected loads.
 - Change the component name by using the Zūm App.
 - Model: Displays the device model.
 - Serial Number: Displays the component's serial number.
 - Firmware Version: Displays the component's firmware version.
 - Status: Displays Online or Offline to show the component's status.

ZUMNET-JBOX-16A-LV-SDEE					
Name	Model	Serial Number	Firmware Version	Status	Details
ZUMNET-JBOX-16A-LV-SDEE-3	ZUMNET-JBOX-16A-LV	TSID3C5E5DEE-3	1.001.00038	Online	
ZUMNET-JBOX-16A-LV-SDEE-2	ZUMNET-JBOX-16A-LV	TSID3C5E5DEE-2	1.001.00038	Online	
ZUMNET-JBOX-16A-LV-SDEE-1	ZUMNET-JBOX-16A-LV	TSID3C5E5DEE-1	1.001.00038	Online	

Room Access Point Hardware						
Room Access Point Hardware	IP ID	Serial Number	IP Address	Floor ID	Zone ID	Action
ZUMNET-CR027	105	TSID3C5E5DEE	192.168.0.137	Disabled	Disabled	
Device	Status	Crestron ID	Serial Number	Version	Components	
ZUMNET-JBOX-16A-LV-SDEE	Online	3	TSID3C5E5DEE	1.001.00038		
ZUMNET-JBOX-16A-LV-SDEE	Online	6	TSID3C5E5DEE	1.001.00038		
ZUMNET-JBOX-16A-LV-SDEE	Online	5	TSID3C5E5DEE	1.001.00038		

Display components

Manage Settings

Access Settings in the Settings View. The Settings tab displays and allows you to edit the firmware, system time and location, network configuration, security configuration, and Crestron services.

Manage ZUM-HUB4 settings

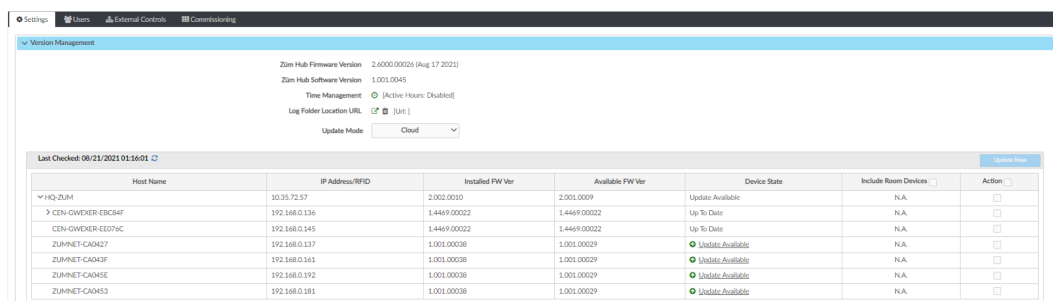
Settings	Users	External Controls	Commissioning
Version Management			
General			
Location			
Network			
Security Configuration			
Services			

Expand Settings

Version Management

Allows you to check for firmware updates for the ZUM-HUB4 and connected devices. Firmware updates for battery powered devices may take up to 24 hours. To update firmware:

1. Open **Settings View**.
2. Click **Settings**.
3. Click **Version Management**.
4. From Update Method, select **Cloud** or **Removeable Media**.
5. If using removeable media, insert the device.
6. Check the box under **Action** for the devices whose firmware you want to update.
7. Click **Update Now**.



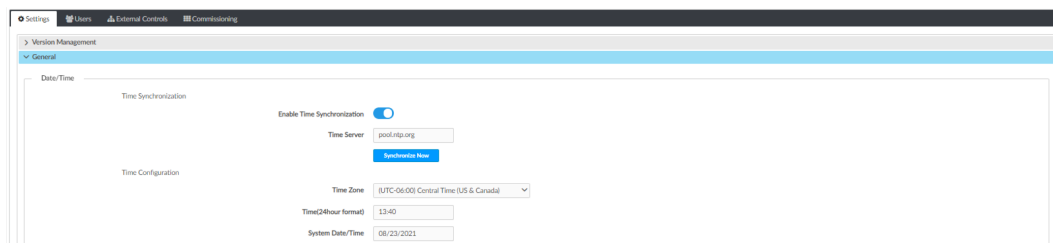
General

Displays the date, time, and time zone. To change the date and time:

1. Open **Settings View**.
2. Click **Settings**.
3. Click **General**.
4. Enter new values in the fields.
5. Click **Save Changes** to save the changes or **Revert** to discard changes.

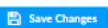

NOTE: Changing these settings requires an immediate system reboot.

A confirmation windows opens. Click **Yes** to reboot or **No** to close the window.



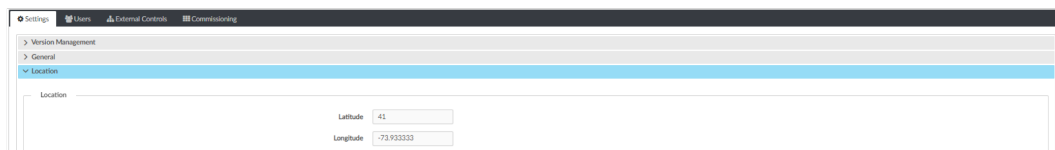
Location

Displays the location (latitude and longitude). Accurate location ensures the Sunrise/Sunset Schedule displays the correct sunrise and sunset times. To change the location:

1. Open **Settings View**.
2. Click **Settings**.
3. Click **Location**.
4. Enter new values in the fields.
5. Click  to save the changes or  to discard changes.

NOTE: Changing these settings requires an immediate system reboot.

A confirmation windows opens. Click **Yes** to reboot or **No** to close the window.



The screenshot shows the 'Location' settings page. It has a sidebar with 'Location' selected. The main area contains two input fields: 'Latitude' with the value '41' and 'Longitude' with the value '-73.93333'.

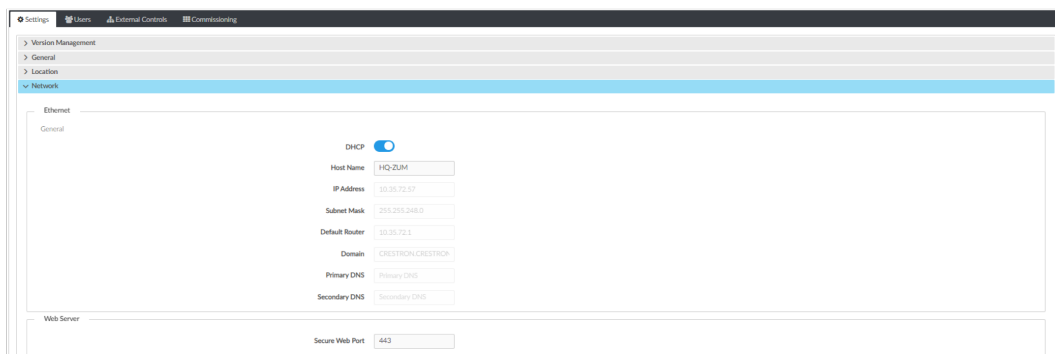
Network

Displays the Ethernet settings. To change the Ethernet settings:

1. Open **Settings View**.
2. Click **Settings**.
3. Click **Network**.
4. Enter new values in the fields. Some fields are not available if DHCP is on.
5. Click  to save the changes or  to discard changes.

NOTE: Changing these settings requires an immediate system reboot.




A confirmation windows opens. Click **Yes** to reboot or **No** to close the window.



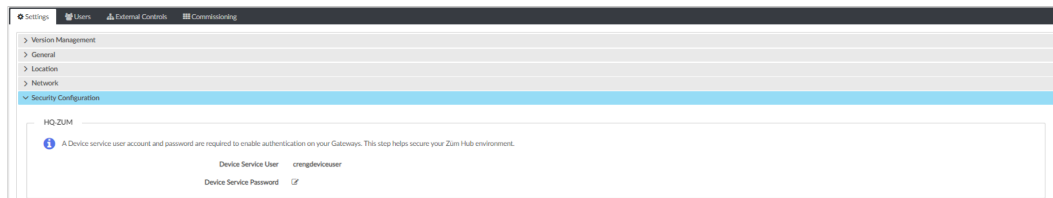
The screenshot shows the 'Network' settings page. It has a sidebar with 'Network' selected. The main area contains 'Ethernet' settings. The 'General' tab is active, showing a 'DHCP' toggle that is turned on. Below it are fields for 'Host Name' (HQ-ZUM), 'IP Address' (10.35.72.57), 'Subnet Mask' (255.255.248.0), 'Default Router' (10.35.72.1), 'Domain' (CRESTRON.CRESTRON), 'Primary DNS' (Primary DNS), and 'Secondary DNS' (Secondary DNS). At the bottom, there is a 'Web Server' section with a 'Secure Web Port' field set to 443.

Security Configuration

Allows the user to change the device service password. To edit the password:



1. Open **Settings View**.
2. Click **Settings**.
3. Click **Security Configuration**.
4. Click  and to new values in the fields.
5. Click  to save the changes or  to discard changes.

A confirmation windows opens. Click **Yes** to reboot or **No** to close the window.



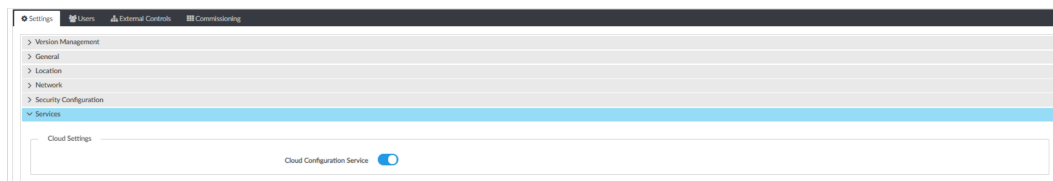
Services

Displays Cloud Settings. To turn Cloud Configuration Service on or off:

1. Open **Settings View**.
2. Click **Settings**.
3. Click **Services**. Cloud Configuration Service is on by default.
4. To turn off Cloud Configuration Service, click the toggle.
5. Click  to save the changes or  to discard changes.

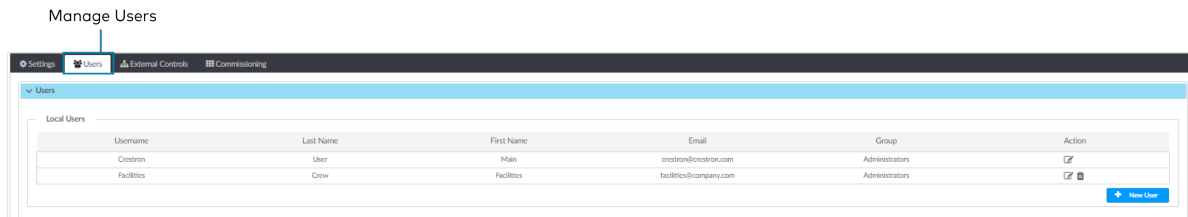
NOTE: Changing these settings requires an immediate system reboot.

A confirmation windows opens. Click **Yes** to reboot or **No** to close the window.



Manage Users

Access Users in the Settings View. The Users tab shows a list of all users and allows you to create new users and modify or delete existing users. The username must be 3 to 15 characters and are permitted to use uppercase letters (A-Z), lowercase letters (a-z), digits (0-9), and special characters (- () + [] . _). The password must be 8 to 12 characters is required to contain at least one uppercase letters (A-Z), lowercase letters (a-z), digits (0-9), and special characters (#?!@\$%^&*~).



Create a New User

To create a new User:

1. Open **Settings View**.
2. Click **Users**.
3. Click **+ New User**.
4. Enter the user details.
5. Click **Save** to save the new user or **Cancel** to exit without creating a new user.

The screenshot shows the 'User Detail' form. It has a blue header with the title 'User Detail' and a close button. The form contains several input fields: 'Username' (with a placeholder 'Username'), 'Password' (with a placeholder 'Password'), 'Confirm Password' (with a placeholder 'Password'), 'First Name' (with a placeholder 'First Name'), 'Last Name' (with a placeholder 'Last Name'), 'Email' (with a placeholder 'Email'), and 'Group' (a dropdown menu with 'Administrators' selected). At the bottom right, there are two buttons: 'Cancel' and 'Save' (with a checkmark icon).


Configure an Existing User

To configure an existing User:

1. Open **Settings View**.
2. Click **Users**.
3. Click  next to the user.
4. Update the user details.
5. Click **Save** to save the changes or **Cancel** to exit without saving the changes.

Delete an Existing User

To delete an existing User:

1. Open **Settings View**.
2. Click **Users**.
3. Click  next to the user.
4. Click **Yes** to delete the user or **No** to cancel without deleting the user.

External Users

For External Rooms to successfully connect, create a User and select **ExternalUser** from the Group drop-down menu. The Username and Password must match the credentials used for the SIMPL+® software module.

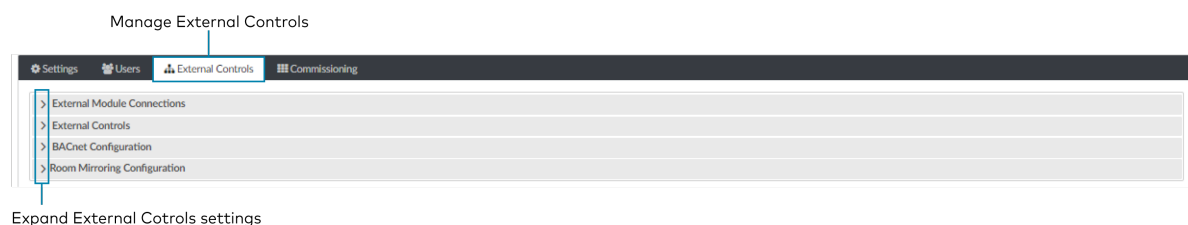
NOTES:

- SIMPL+® software modules are provided for use in commissioning a Crestron control system to work with the ZUM-HUB4. The software modules run within the control system program and provide virtual connections for all the necessary intersystem control signals. A separate dedicated module is required for each external and mirrored room. Control systems are limited in the number of modules supported, ranging from 0 to 1000 depending on the model. For further assistance, please contact Crestron Commercial Lighting Support via email at clclighting@crestron.com or by calling 855-644-7643.
- Other Crestron control systems must be commissioned to provide the control logic required to communicate and operate as part of the Zūm network. Once integrated, each external room effectively becomes a part of the Zūm ecosystem.

Manage External Controls

Access External Controls in the Settings View. Use the External Controls tab to manage External Room settings. External Rooms provide the ability to integrate third-party devices into a Züm lighting control system. To create a User for External Rooms, refer to [External Users on page 56](#).

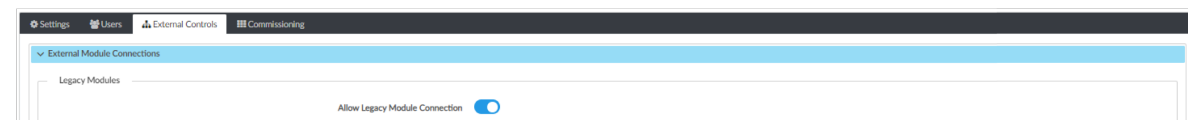
SIMPL+® software modules are provided for use in commissioning a Crestron control system to work with the ZUM-HUB4. The software modules run within the control system program and provide virtual connections for all the necessary intersystem control signals. A separate dedicated module is required for each external and mirrored room. Control systems are limited in the number of modules supported, ranging from 0 to 1000 depending on the model. For further assistance, please contact Crestron Commercial Lighting Support via email at clclighting@crestron.com or by calling 855-644-7643.



External Module Connections

To allow or prevent older versions of module to be used:

1. Open **Settings View**.
2. Click the **External Controls** tab and expand the **External Module Connections** menu.
3. Click the toggle to turn **Allow Legacy Module Connection** on or off.



External Controls




Access External Controls in the Settings View. Use the **External Controls** menu to add, edit, or delete a macro.

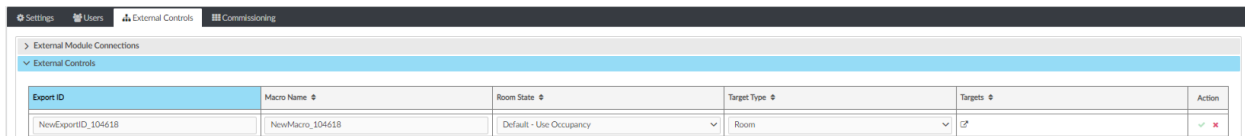
Export ID	Macro Name	Room State	Target Type	Targets	Action
Export ID - 10	NewMacro10	Default - Use Occupancy	Room	No Targets Assigned	Edit Delete
new Export id 1	Macro 1	Energy Saving	Room	No Targets Assigned	Edit Delete
new Export id 2	Macro 2	Manual Control	Category	Offices, Conference Rooms	Edit Delete
new Export id 3	Macro 31	Energy Saving	Room	No Targets Assigned	Edit Delete
new Export id 4	new Macro 4	Energy Saving	Floor	34, 29, 155	Edit Delete
new Export id 5	new Macro 5	Energy Saving	Hub		Edit Delete
NewExportID_284789	NewMacro_284789	Default - Use Occupancy	Room	No Targets Assigned	Edit Delete
NewExportID_204912	NewMacro_204912	Default - Use Occupancy	Room	No Targets Assigned	Edit Delete
NewExportID7	NewMacro7	Energy Saving	Category	Offices, Conference Rooms	Edit Delete
NewExportID8	NewMacro8	Scene Off	Room	No Targets Assigned	Edit Delete
NewExportID9	NewMacro9	Default - Use Occupancy	Category	Offices, Restrooms, Conference Rooms	Edit Delete
NewExportID9	NewMacro9	Manual Control	Category	Offices, Restrooms, Conference Rooms	Edit Delete



[+ Add](#)

Add Macro

To add a new macro:




1. Open **Settings View**.
2. Click the **External Controls** tab and expand the **External Controls** menu.
3. Click . A new row appears.
4. Configure the macros settings:
 - Enter the Export ID.
 - Enter the Macro Name.
 - Select a Room State.
 - Target Type: Room Category, Room Floor, or Hub.
 - Enter Targets.
5. Click  to save or  to cancel.



Export ID	Macro Name	Room State	Target Type	Targets	Action
NewExportID_104618	NewMacro_104618	Default - Use Occupancy	Room	2	 


Edit Existing Macro

To edit an existing macro:

1. Open **Settings View**.
2. Click the **External Controls** tab and expand the **External Controls** menu.
3. Click .
4. Enter new values in the fields.
5. Click  to save or  to cancel.

Delete Existing Macro

To delete an existing macro:

1. Open **Settings View**.
2. Click the **External Controls** tab and expand the **External Controls** menu.
3. Click . A confirmation window opens.
4. Click **Yes** to delete the macro or **No** to cancel.

BACnet Configuration

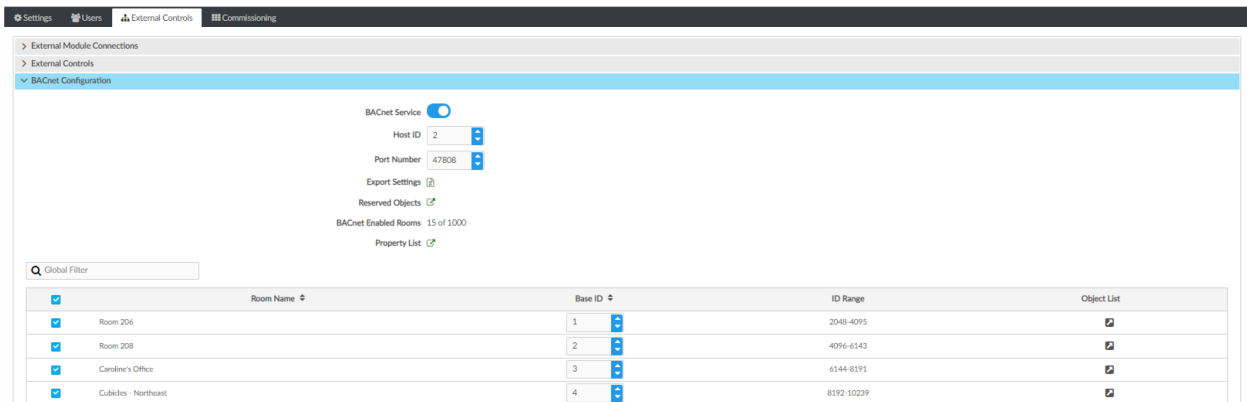
The BACnet tab displays the system settings to establish a connection with the BMS (building management system). To configure BACnet service:

1. Open **Settings View**.
2. Click the **External Controls** tab and expand the **BACnet Configuration** menu.

3. Configure the BACnet settings:

NOTE: Use the search to find a specific room.

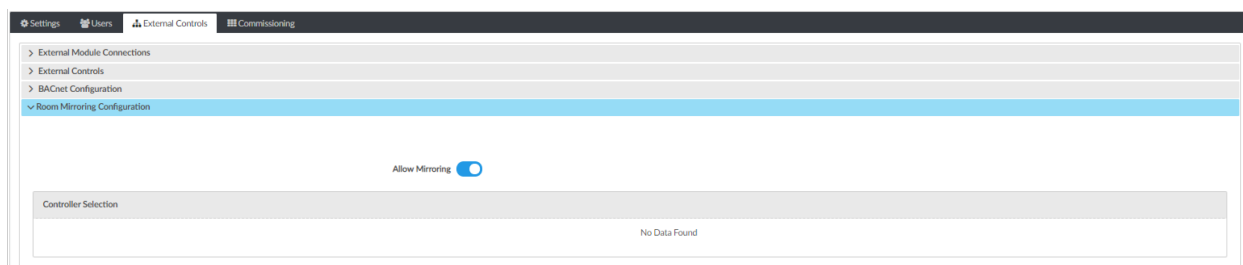
- BACnet Service: Click the toggle to turn the BACnet service on or off.
- Host ID: The ID that the ZUM-HUB4 uses when communicating with the BACnet system.
- Port Number: The port number that is used when communicating with the BACnet system.
- Export Settings: Export the BACnet settings to a CSV (comma separated value) file.
- Reserved Objects: Display objects that send signals to the ZUM-HUB4.
- BACnet Enabled Rooms: The number of rooms with BACnet.
- Property List: Allows users to select which objects are enabled for all rooms.
- Room Name: The name of the room.
- Base ID: Orders the device in the system and assigns the object IDs.
- ID Range: The range of Object IDs that the room can use.
- Object List: Displays a list of all Object IDs, Object Names, and Object Types within the selected room. A blue checkmark indicates objects that are enabled.



Room Mirroring Configuration

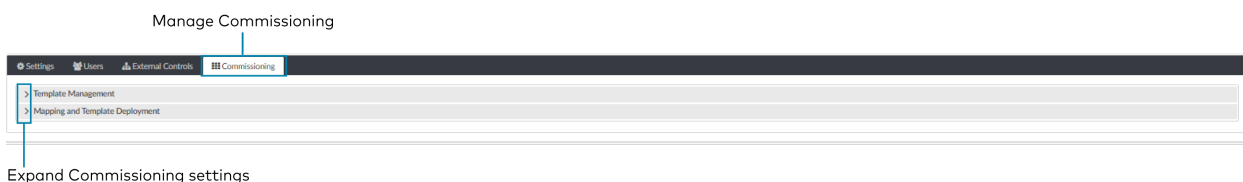
Room Mirroring allows an external processor to send or receive information from an existing Züm room.

1. Open **Settings View**.
2. Click the **External Controls** tab and expand the **Room Mirroring Configuration** menu.
3. Click the toggle to turn **Allow Mirroring** on or off .



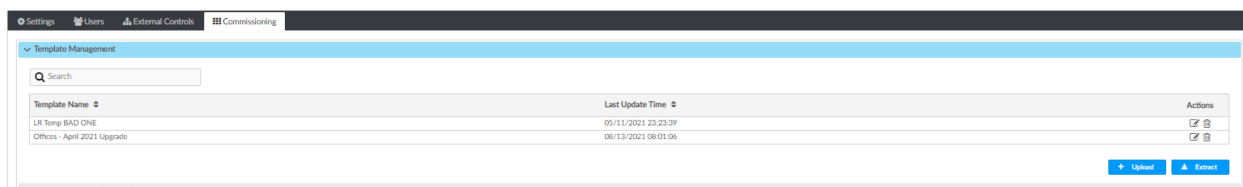
Manage Commissioning

Access Commissioning in the Settings View. Use the Commissioning tab to manage, map, and deploy, room templates. To create a new template, use the Zūm app.



Template Management

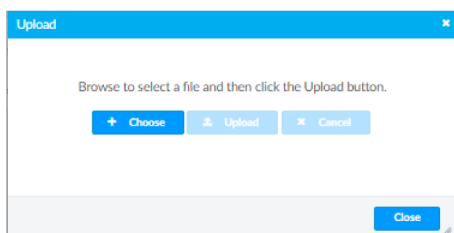
Upload a new template or search, extract, edit, or delete an existing template.



Add a New Template


To add a new room template:

1. Open **Settings View**.
2. Click the **Commissioning** tab and expand the **Template Management** menu.
3. Click **Upload**. The Upload window opens.
4. Click **Choose** to browse for a new template.
5. Select the template.
6. Click **Upload** to add the template to the **Template Management** menu, **Cancel** to choose a different template, or **Close** to close the window without adding a new template.




Edit Template Name

To edit an existing template name:

1. Open **Settings View**.
2. Click the **Commissioning** tab and expand the **Template Management** menu.
3. If necessary, use the **Search** bar to find a room template.
4. Click .
5. Type the new name.
6. Click **Save** to save the new name or **Cancel** to close the window without saving a new name.

Delete Existing Template

To delete an existing template:

1. Open **Settings View**.
2. Click the **Commissioning** tab and expand the **Template Management** menu.
3. If necessary, use the **Search** bar to find a room template.
4. Click . A confirmation window opens.
5. Click **Yes** to delete the template or **Cancel** to close the window.

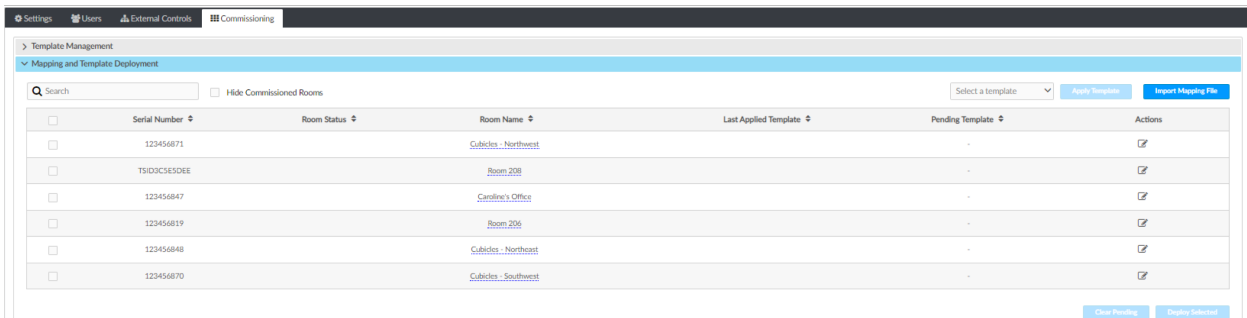
Extract Template







To extract a room template from another room:

1. Open **Settings View**.
2. Click the **Commissioning** tab and expand the **Template Management** menu.
3. If necessary, use the **Search** bar to find a room template.
4. Click **Extract**. The Extract Template window opens.
5. Select a room.
6. Click **Extract** to extract the template or **Cancel** to close the window.

Mapping and Template Deployment

Use Mapping and Template Deployment to apply and deploy templates to rooms and to import mapping files.



	Serial Number	Room Status	Room Name	Last Applied Template	Pending Template	Actions
<input type="checkbox"/>	12345671		Cubicles - Northwest		-	
<input type="checkbox"/>	TS4XSC3E3DIE		Room 208		-	
<input type="checkbox"/>	123456847		Caroline's Office		-	
<input type="checkbox"/>	123456819		Room 206		-	
<input type="checkbox"/>	123456848		Cubicles - Northeast		-	
<input type="checkbox"/>	123456870		Cubicles - Southwest		-	


Apply and Deploy Templates.

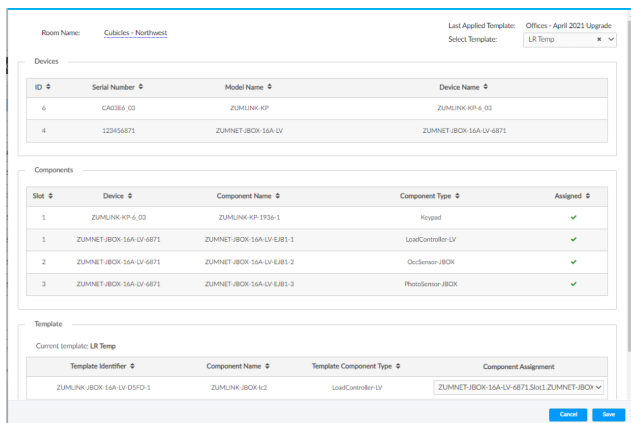
To apply and deploy a template:

1. Open **Settings View**.
2. Click the **Commissioning** tab and expand the **Mapping and Template Deployment** menu.
3. Select a room or multiple rooms. If necessary, use the **Search** bar to find a room.
4. From the **Select a template** drop-down menu, choose the desired template.
5. Click **Apply Template**. When the template is successfully applied, the template is now pending.
6. Click **Deploy Selected** to deploy the template to the rooms or **Clear Pending** to remove the template from the rooms.

Edit Template Assignment

To edit a template assignment:

1. Open **Settings View**.
2. Click the **Commissioning** tab and expand the **Mapping and Template Deployment** menu.
3. Click  beside the desired room. If necessary, use the **Search** bar to find the room. A window opens.
4. From the **Select Template** drop-down menu, choose the desired template.
The remaining data specifies the room information, the devices and components affected, and the selected template details.
5. Click **Save** to reassign the room template or **Cancel** to close the window without saving.



Room Name: Cubicles - Northwest

Last Applied Template: Offices - April 2021 Upgrade

Select Template: LR Temp

Devices

ID	Serial Number	Model Name	Device Name
6	CAD28A-03	ZUMLINK-KP	ZUMLINK-KP-6-03
4	12345678	ZUMNET-JBOX-16A-UV	ZUMNET-JBOX-16A-UV-6871

Components

Slot	Device	Component Name	Component Type	Assigned
1	ZUMLINK-KP-6-03	ZUMLINK-KP-1936-1	Keypad	✓
1	ZUMNET-JBOX-16A-UV-6871	ZUMNET-JBOX-16A-UV-LB1-1	LoadController-UV	✓
2	ZUMNET-JBOX-16A-UV-6871	ZUMNET-JBOX-16A-UV-LB1-2	Occupancy-JBOX	✓
3	ZUMNET-JBOX-16A-UV-6871	ZUMNET-JBOX-16A-UV-LB1-3	PhotoSensor-JBOX	✓

Template

Current template: LR Temp

Template Identifier	Component Name	Template Component Type	Component Assignment
ZUMLINK-JBOX-16A-UV-DSFD-1	ZUMLINK-JBOX-162	LoadController-UV	ZUMNET-JBOX-16A-UV-6871, Slot1, ZUMNET-JBOX

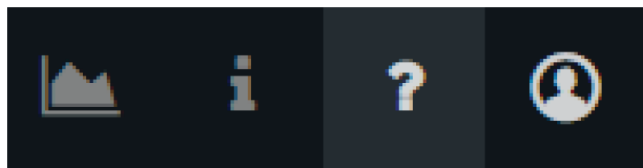
Cancel Save

Import Mapping File

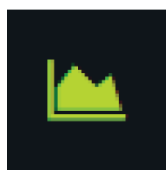
Access Import Mapping File in the Settings View. Open the Commissioning tab and expand the **Mapping and Template Deployment** menu. If a mapping file has been created in an external file, use the **Import Mapping File** button to navigate to the mapping and import the file.

Review Device Information and Status

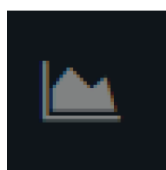
View the Demand Response status, system alerts, help information, or sign out of the web interface.



Demand Response Status



Demand Response is enabled.



Demand Response is disabled.

System Information



System notifications are categorized as information, warnings, or errors. Notifications can be viewed all at once or in their respective categories. Each notification is displayed for 24 hours and up to 100 notifications can be viewed at a time. Each notification after 100 will replace the oldest notification. For example, when notification 101 displays, notification 1 is removed. Delete a single notification by clicking the **X** to the right of the notification. Alternatively, delete one or more notifications by selecting the check box to the left of the notification and clicking **Delete Notifications**.

Notifications

Types: **All** Info Warning Error

Select entire list ☐ Type Message

<input checked="" type="checkbox"/>		System has completed updating rooms.	08/20/2023 07:15 PM	
<input type="checkbox"/>		The default PIN should be changed for one or more rooms in this group.	08/20/2023 07:14 PM	
<input type="checkbox"/>		System is currently updating rooms. Some features may be unavailable.	08/20/2023 07:14 PM	
<input checked="" type="checkbox"/>		Could Not Connect To Device With Hostname CEN-GWEXER-92796E. Invalid Device Service Credentials.	08/20/2023 07:14 PM	

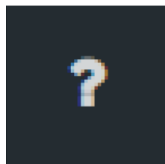
Select individual notification

Delete notification

Delete Notifications

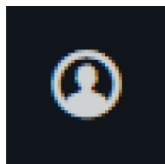
Delete selected notifications

Help



Click to view the help file.

Sign Out

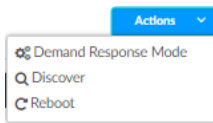


Click to bring up the Sign Out pop-up. Click Sign Out to log out of the ZUM-HUB4.

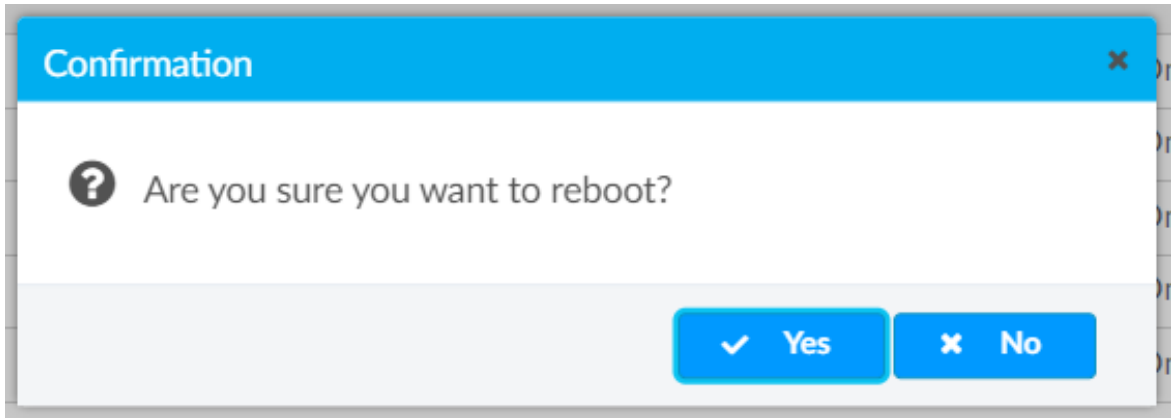
Reboot ZUM-HUB4

To reboot the ZUM-HUB4:

1. Click the **Actions** menu



2. Click **Reboot**. The Confirmation window opens.



3. Click **Yes** to Reboot or **No** to close the window without rebooting.

Resources

Below are resources provided for ZUM-HUB4.

NOTE: You may need to provide your Crestron.com web account credentials when prompted to access some of the following resources.

Crestron Support and Training

- [Crestron True Blue Support](#)
- [Crestron Resource Library](#)
- [Crestron Online Help \(OLH\)](#)
[Crestron Zum® Lighting Answer Index: Answer ID: 1001872](#)
- [Crestron Training Institute \(CTI\) Portal](#)

Programmer and Developer Resources

- help.crestron.com: Provides help files for Crestron programming tools such as SIMPL, SIMPL#, and Crestron Toolbox™ software
- developer.crestron.com: Provides developer documentation for Crestron APIs, SDKs, and other development tools

Product Certificates

To search for product certificates, refer to support.crestron.com/app/certificates.

Related Documentation

Energy standards for Zūm Wired solutions

IECC 2021

- [Education Applications](#)
- [Healthcare Applications](#)
- [Hospitality Applications](#)
- [Office Applications](#)
- [Restaurant Applications](#)
- [Retail Applications](#)

ASHRAE 2019

- [Education Applications](#)
- [Healthcare Applications](#)
- [Hospitality Applications](#)
- [Office Applications](#)
- [Restaurant Applications](#)
- [Retail Applications](#)

Title 24 2019

- [Education Applications](#)
- [Healthcare Applications](#)
- [Hospitality Applications](#)
- [Office Applications](#)
- [Restaurant Applications](#)
- [Retail Applications](#)

IECC 2018

- [Education Applications](#)
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- [Office Applications](#)
- [Restaurant Applications](#)
- [Retail Applications](#)

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