ZUM-FLOOR-HUB

Supplemental Guide

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.

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Contents

Introduction **1**

Interface Overview **2**

Room Category Tree 2
Main View 2
Actions 2
Display Device Information and Status 2

Room Category Tree **3**

Manage Room Categories 3
Add a Room Category 3
Delete a Room Category 4
Rename a Room Category 4
Turn On/Off All Rooms in Room Category 5
Set the Bluetooth PIN 6
Set the Demand Response Level 7
Find a Room 8
Manage Rooms 9
Add a Room to a Room Category 9
Turn On/Off a Room 10
Rename a Room 10
Remove a Room from a Room Category 11
Delete a Room 11

Main View **12**

Status 12
Settings 13
Version Management 13
Gateways 14
General 14
Network 15
Schedule 16
Calendar 16
Day Patterns 17
Astronomical Clock 18
Users 19
Username Requirements 19
Password Requirements 19
Create a New User 19
Edit an Existing User 19
Delete an Existing User 19
BACnet 20

Actions 21

Configure Holidays 21
Create a New Holiday 21
Configure the Observed Holidays 22
Change the Holiday Name 23
Configure States 23
Configure the Existing States 23
Create a New State 24
Demand Response Mode 24
Discover 25
Reboot 26

Display Device Information and Status 27

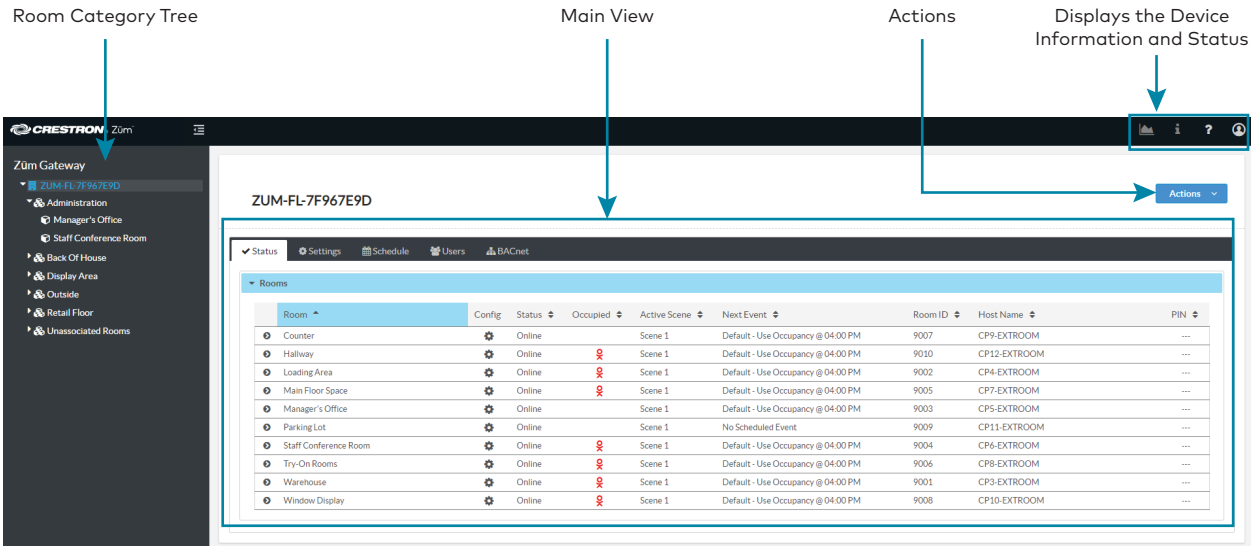
Demand Response Status 27
System Information 27
Help 27
Sign Out 27

Zūm™ Floor Hub

Introduction

The Crestron® Zūm™ Floor Hub (ZUM-FLOOR-HUB) enables centralized management for up to 1,000 individual rooms equipped with Zūm commercial lighting systems. The ZUM-FLOOR-HUB provides a web-based user interface for easy configuration, control, monitoring, and scheduling of connected Zūm commercial lighting systems. It also enables integration of other Crestron lighting systems, control systems, touch screens, shading, HVAC, and more.

Interface Overview



Room Category Tree

Perform the following:

- Manage Room Categories
- Manage rooms
- Control rooms
- Set Bluetooth PIN
- Set Demand Response Level
- Search for a Room

Main View

View and Configure Room:

- Status
- Settings
- Schedule
- Users
- BACnet

Actions

Perform the following:

- Configure Holidays
- Configure States
- Enable/Disable Demand Response Mode
- Discover connected devices
- Device Reboot

Display Device Information and Status

Displays device information and status:

- Demand Response
- System alerts
- Help screens
- Sign Out

Room Category Tree

The Room Category Tree lists all room categories, floor IDs, and rooms that are attached to the ZUM-FLOOR-HUB. Room Categories are intended to be a grouping of all rooms that are a similar type (for example, offices or conference rooms) to provide easy monitoring and control. Rooms that have not been assigned to a Room Category are kept in the Unassociated Rooms category.

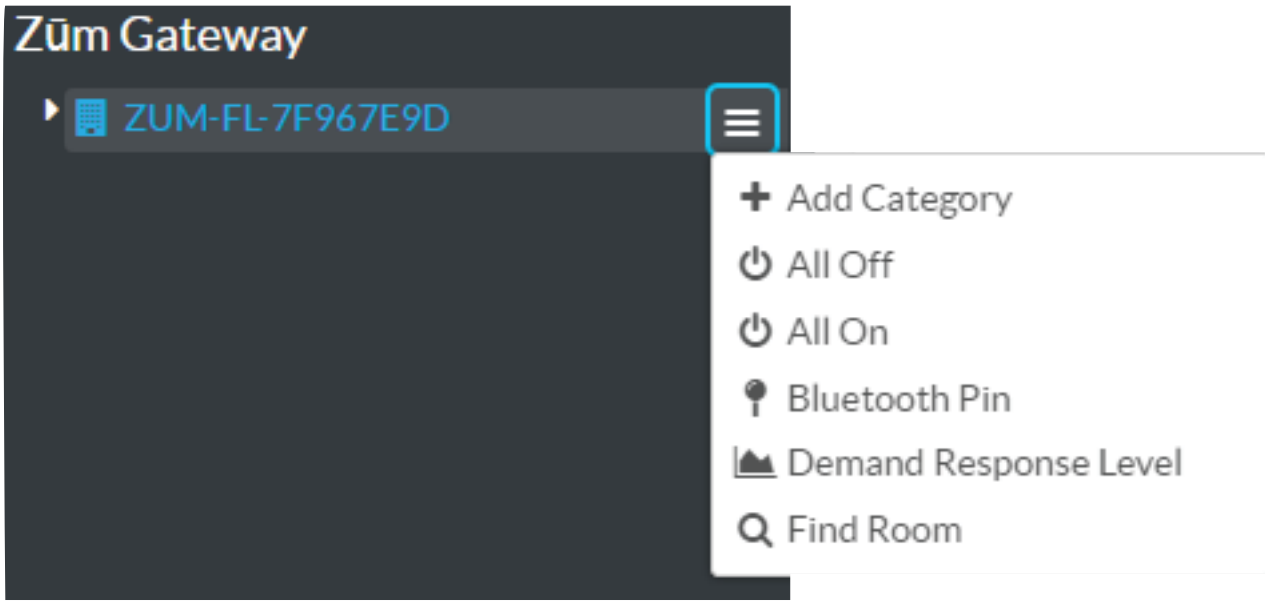
Manage Room Categories

Rooms must be discovered by the ZUM-FLOOR-HUB before performing any procedure in this section. Refer to "Discover" on page 25 for details.

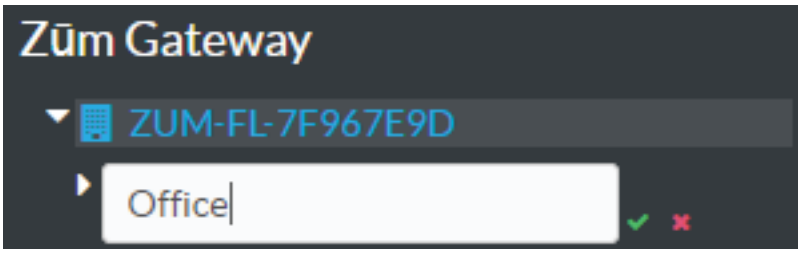
Add a Room Category

Add Room Categories to organize and manage rooms. To add a Room Category:

1. Click the menu on the main device.
2. Click **Add Category**.



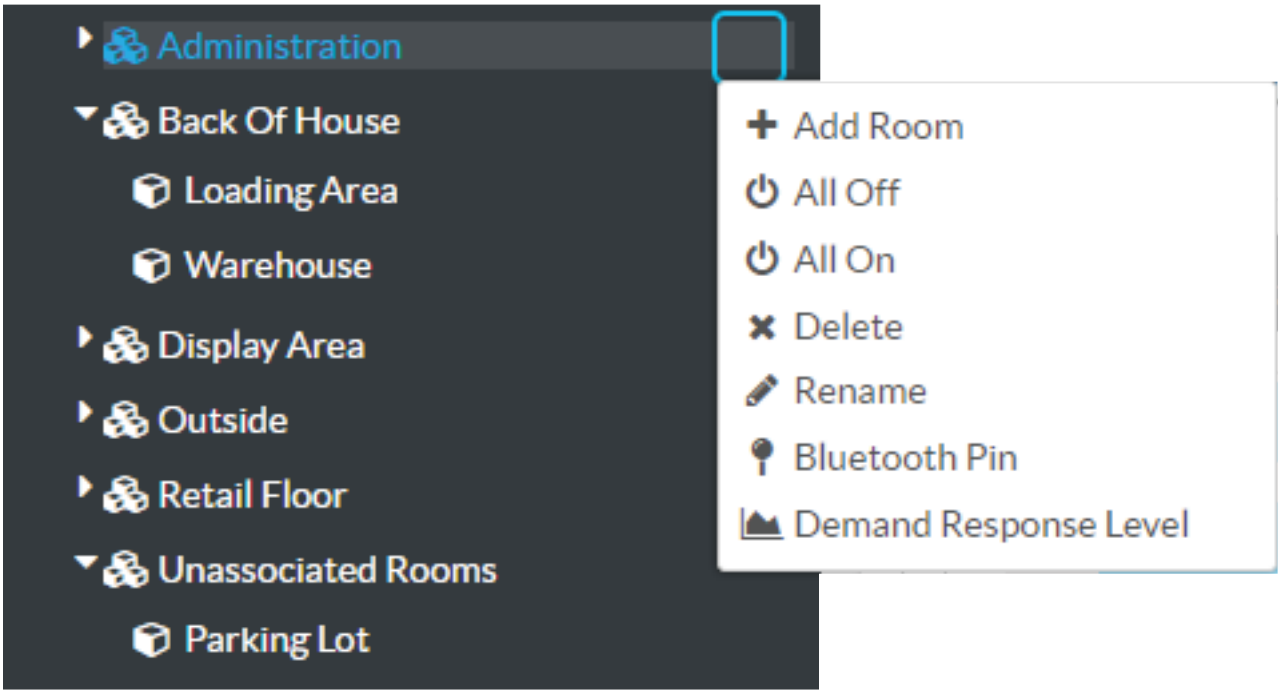
3. Enter the name of the Room Category.
4. Click ✔ to save the Room Category or ✖ to cancel.



Delete a Room Category

A Room Category can be deleted if no longer needed. Rooms that are within the deleted Room Category are moved to the Unassociated Rooms category. To delete a Room Category:

1. Click the menu on the Room Category.
2. Click **Delete**.
3. A Confirmation dialog opens. Click Yes to delete the Room Category or No to cancel.



Rename a Room Category

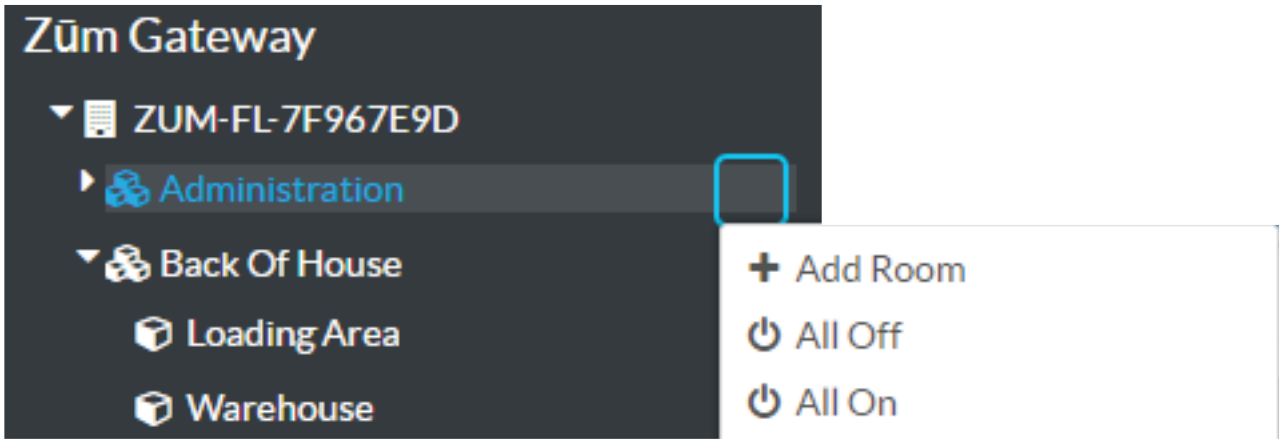
Room Category names can be changed to provide a clear description of the connected rooms. To change the Room Category name:

1. Click the menu on the Room Category.
2. Click **Rename**.
3. Enter the new name of the Room Category.
4. Click to save the Room Category name or to cancel.

Turn On/Off All Rooms in Room Category

All rooms in a Room Category can be turned on/off. To turn all rooms on/off in a Room Category:

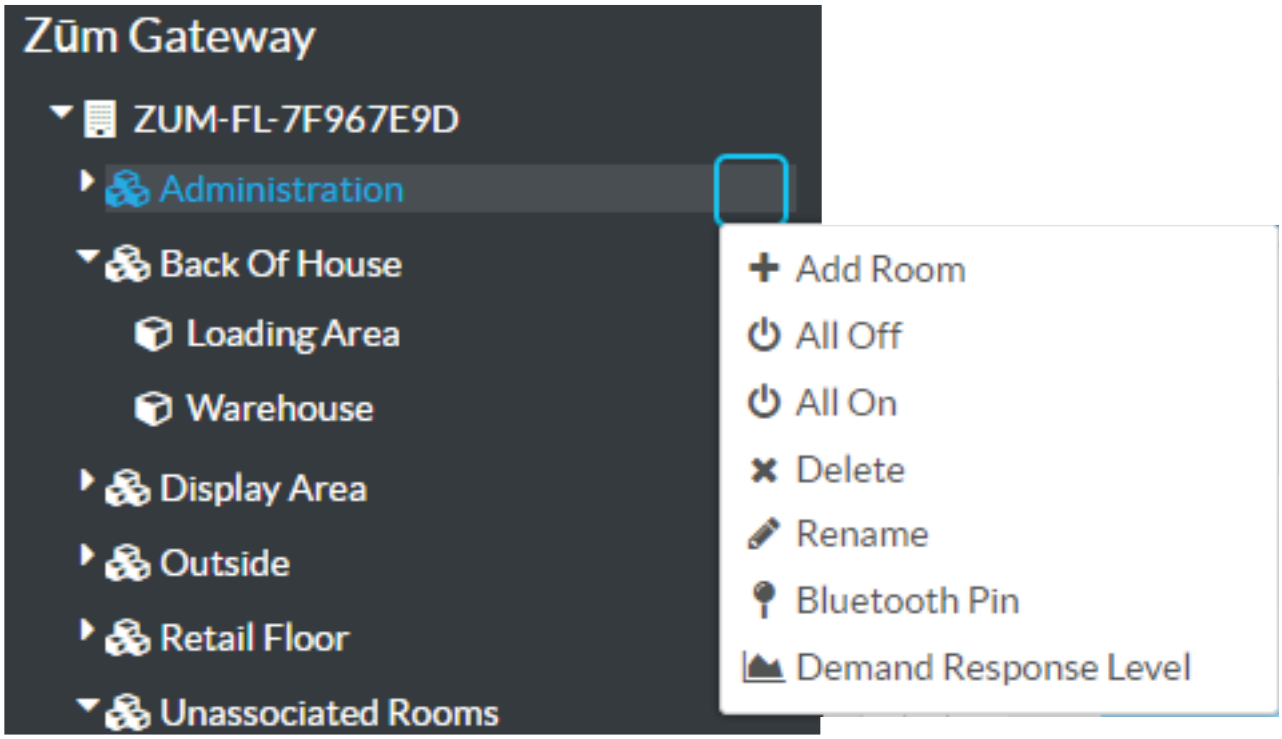
1. Click the menu on the Room Category.
2. Click **All Off** or **All On**.



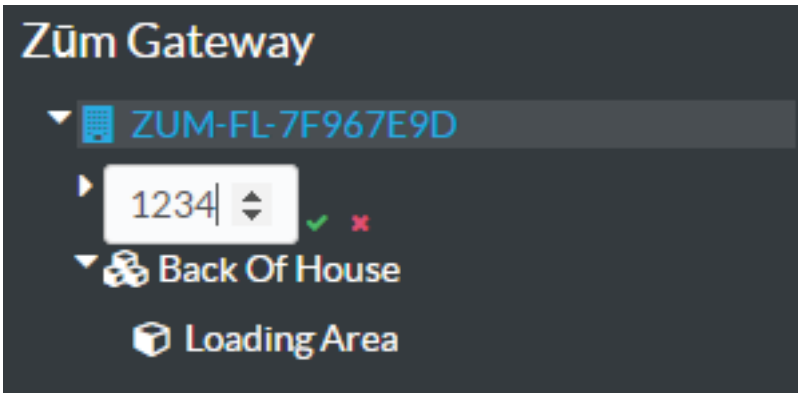
Set the Bluetooth PIN

The Bluetooth PIN enables a phone with the Zūm mobile app to connect to the Zūm Network Bridge in the room. To set the Bluetooth PIN:

1. Click the menu on the Room Category or room.
2. Click **Bluetooth PIN**.



3. Set the PIN (0 to 9999).

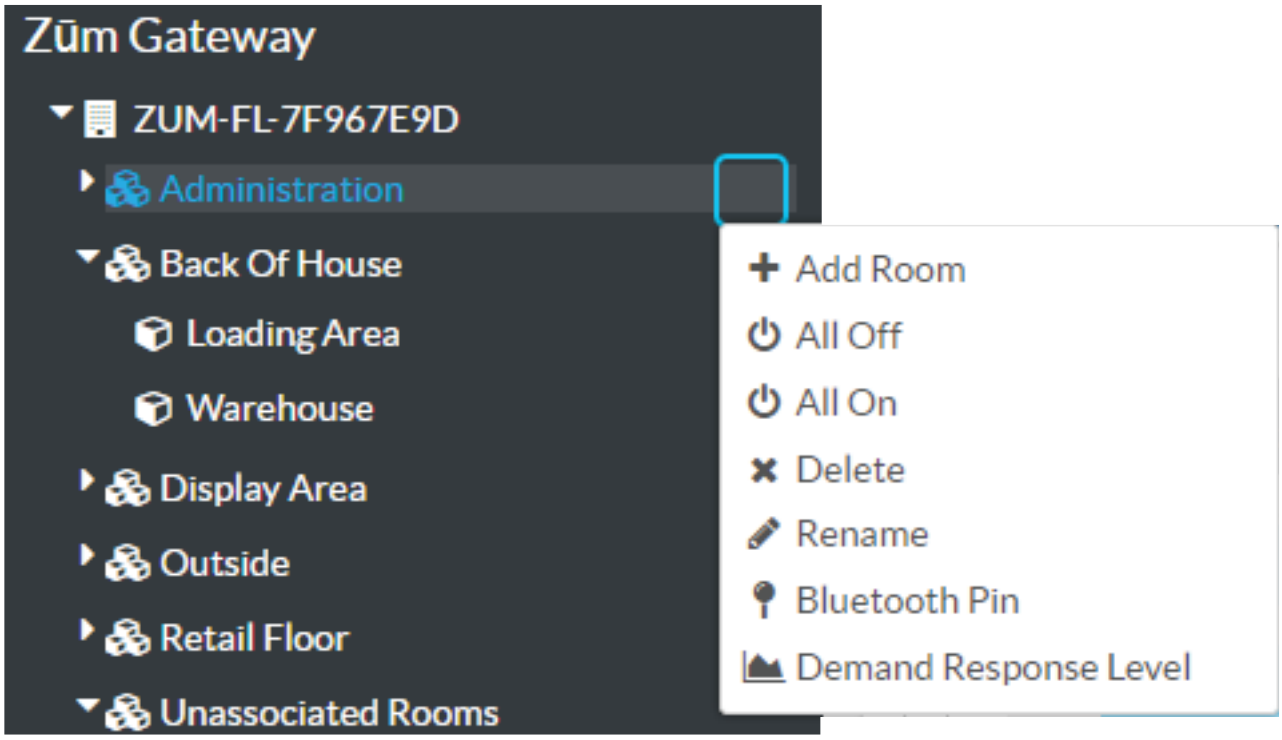


4. Click ✔ to save the value or ✖ to cancel.

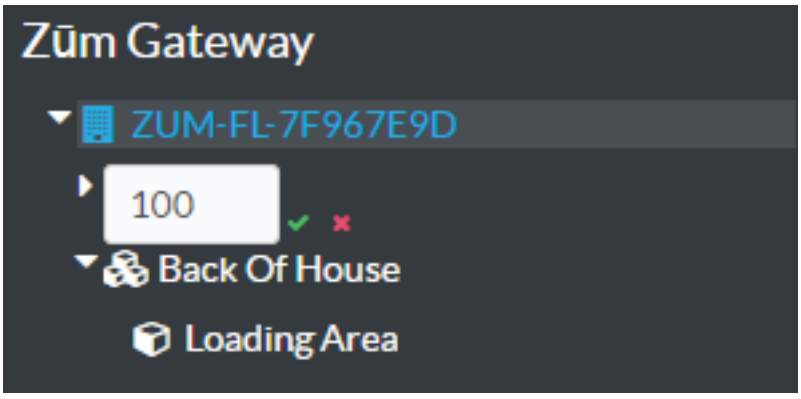
Set the Demand Response Level

The Demand Response Level is the light level that the rooms are reduced to when a demand response command is received from the utility company. The Demand Response Level is set on the Room Category level. To set the Demand Response Level:

1. Click the menu on the Room Category.
2. Click **Demand Response Level**.



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

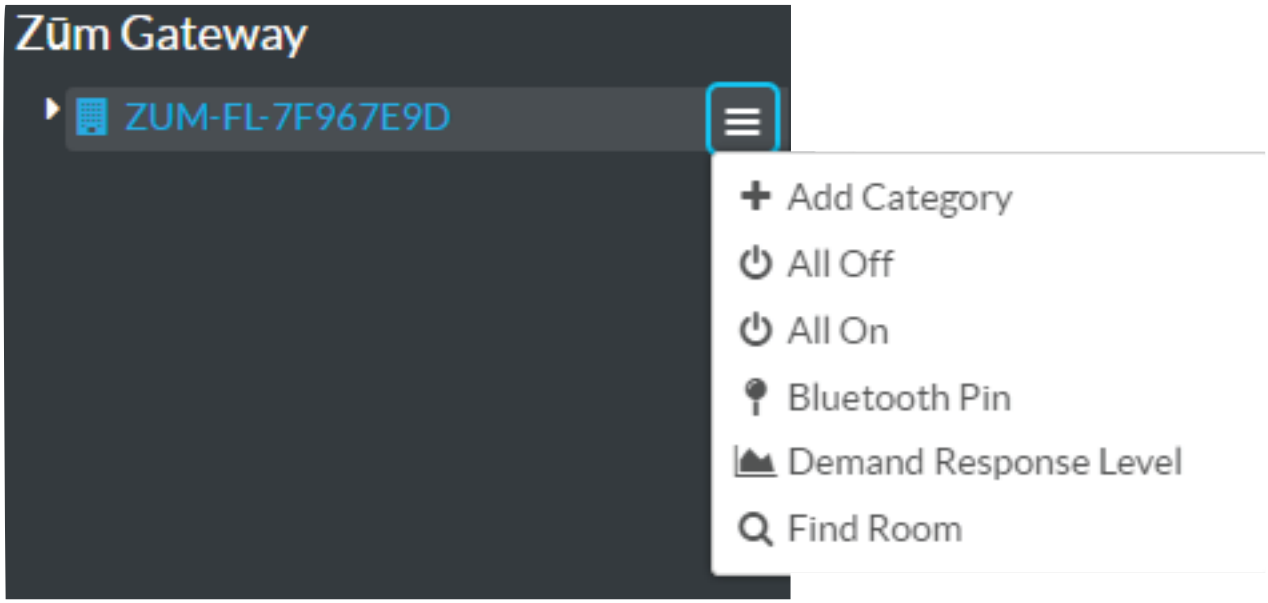


4. Click ✔ to save the level or ✖ to cancel.

Find a Room

For ZUM-FLOOR-HUBs that have a large number of rooms, use the Find Room feature to search for a room name. To search for a room:

1. Click the menu on the main device.
2. Click **Find Room**.



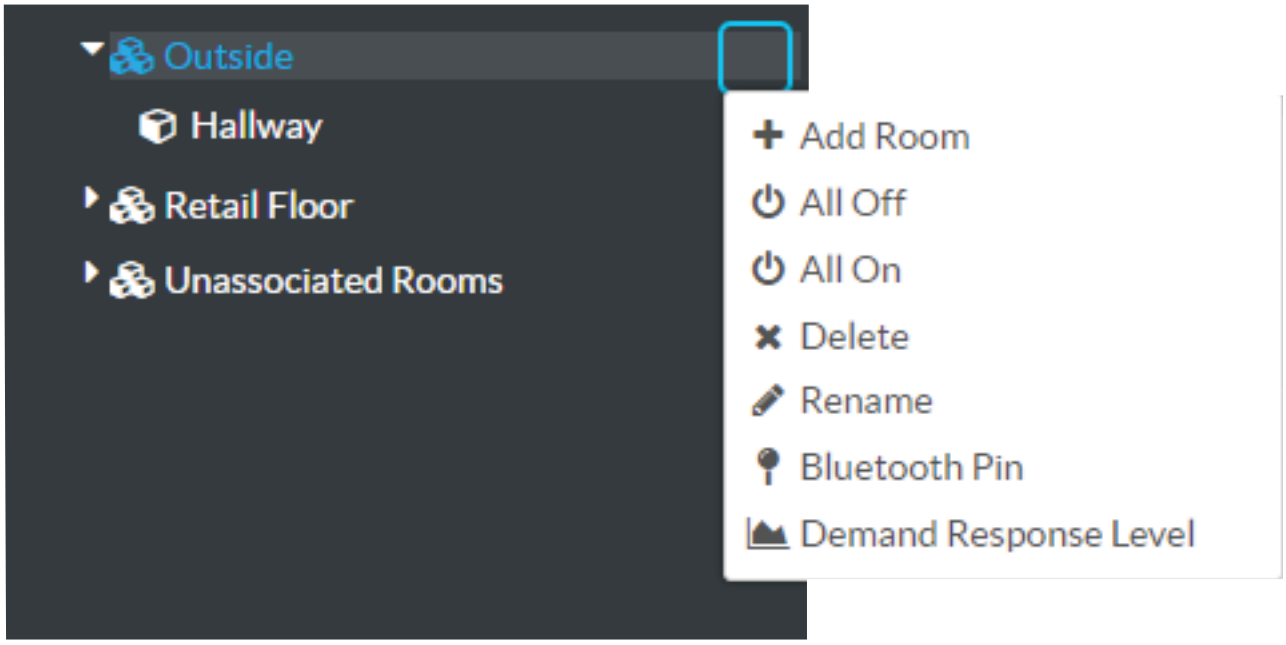
3. Enter the name of the room you want to find. Rooms with matching names will display as you type.
4. Click the room name. The desired room will be highlighted in the list.

Manage Rooms

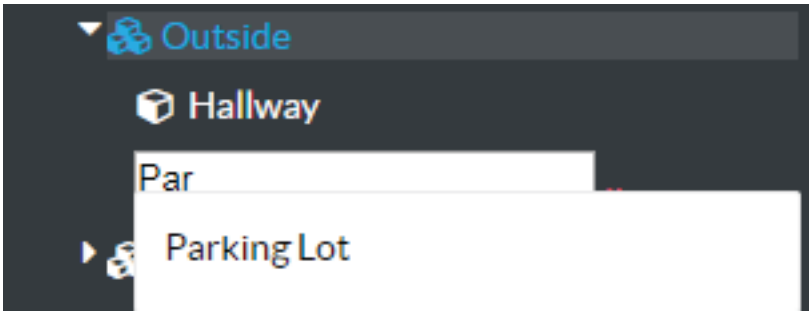
Rooms must be discovered by the ZUM-FLOOR-HUB before performing any procedure in this section. Refer to "Discover" on page 25 for details.

Add a Room to a Room Category

1. Click the menu on a Room Category.
2. Click **Add Room**.



3. Enter the name of the room you want to add. Rooms with matching names will display as you type.



4. Click ✔ to add the room or ✖ to cancel.

Turn On/Off a Room

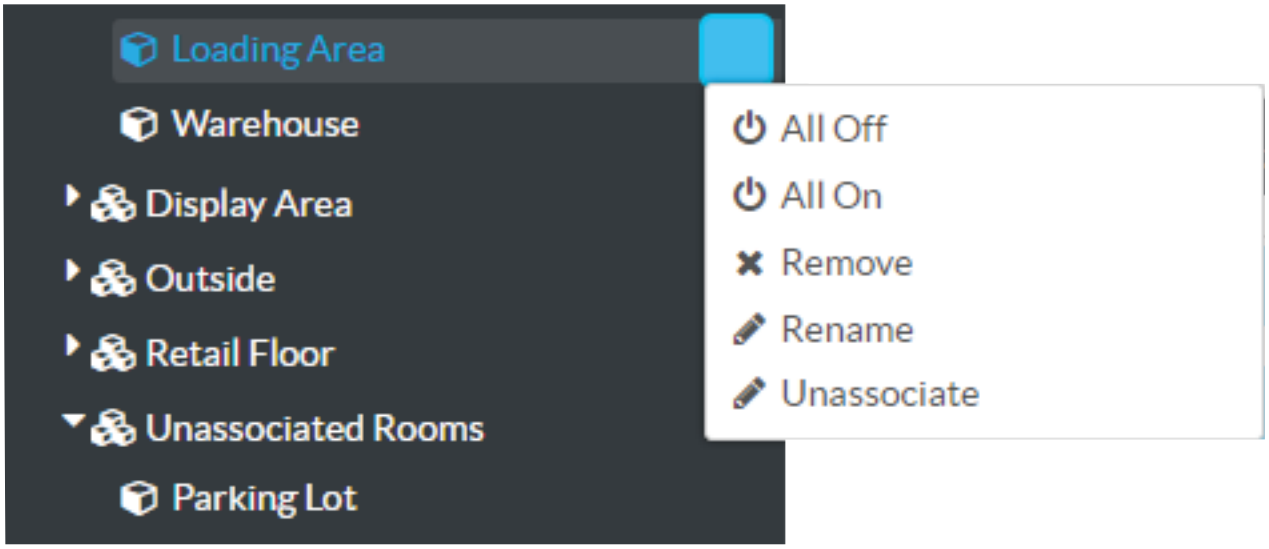
Turn rooms on or off individually. To turn on/off rooms:

1. Click the menu on the room.
2. Click **All Off** or **All On**.

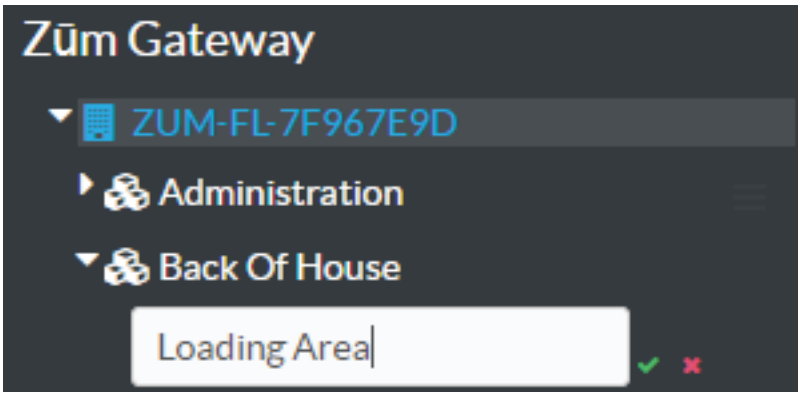
Rename a Room

Room names can be changed to provide a clear description of the room. To change the name of a room:

1. Click the menu on the room.
2. Click **Rename**.



3. Enter the new name of the room.



4. Click ✔ to save the name or ✖ to cancel.

Remove a Room from a Room Category

When a room is removed from a Room Category, it is moved to the Unassociated Rooms category. All associated room settings are retained.

After a room is unassociated from a Room Category, it can be added to another Room Category.

To remove a room from a Room Category:

1. Click the menu on the room.
2. Click **Unassociate**.
3. A confirmation dialog opens. Click Yes to unassociate the room or No to cancel.

Delete a Room

When a room is deleted, it is completely removed from the ZUM-FLOOR-HUB. All associated room settings are also removed. If the room is to be added to the ZUM-FLOOR-HUB again, it must be re-discovered.

1. Click the menu on a room.
2. Click **Remove**.
3. A confirmation dialog opens. Click Yes to delete the room or No to cancel.

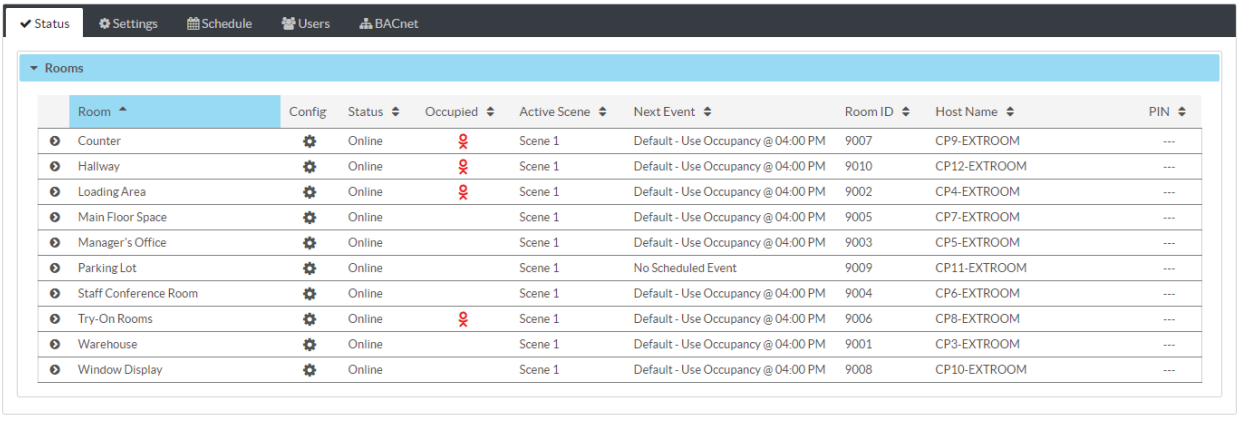
Main View

The main view displays the Status, Settings, Schedule, Users, and BACnet tabs.

Status

The Status tab shows an overall view of the connected rooms such as online/offline, occupancy, active scene, upcoming events, Room ID, Host Name, and Bluetooth PIN. The Status tab also provides quick access to configure the Room State. To view the status:

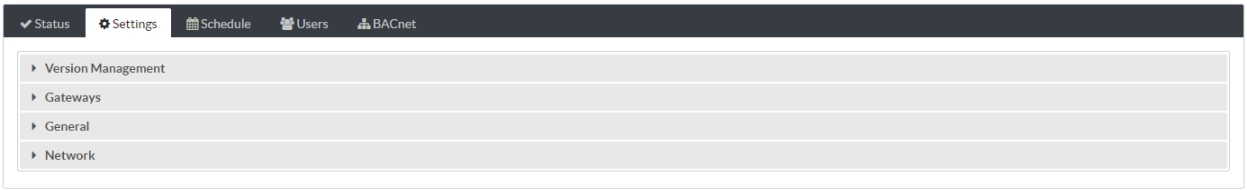
1. Click **Status**.
2. Click **Rooms**.
   - Room: Displays the name of the room.
   - Config: Provides quick access to configure the Room State. Refer to "Configure States" on page 23 for details.
   - Status: Indicates that the room is online or offline.
   - Occupied: Indicates that the room is occupied (icon present) or vacant.
   - Active Scene: Reports the scene that is currently active in the room.
   - Next Event: Displays the next event that is scheduled to occur in the room.
   - Room ID: Displays the ID of the room.
   - Host Name: Displays the host name of the room.
   - PIN: Displays the Bluetooth PIN that is assigned to the room.
   - Click the arrow next to a room name to view the devices that are in the room and their serial number, firmware version, online/offline status, and the battery status.



Room	Config	Status	Occupied	Active Scene	Next Event	Room ID	Host Name	PIN
Counter		Online		Scene 1	Default - Use Occupancy @ 04:00 PM	9007	CP9-EXTROOM	---
Hallway		Online		Scene 1	Default - Use Occupancy @ 04:00 PM	9010	CP12-EXTROOM	---
Loading Area		Online		Scene 1	Default - Use Occupancy @ 04:00 PM	9002	CP4-EXTROOM	---
Main Floor Space		Online		Scene 1	Default - Use Occupancy @ 04:00 PM	9005	CP7-EXTROOM	---
Manager's Office		Online		Scene 1	Default - Use Occupancy @ 04:00 PM	9003	CP5-EXTROOM	---
Parking Lot		Online		Scene 1	No Scheduled Event	9009	CP11-EXTROOM	---
Staff Conference Room		Online		Scene 1	Default - Use Occupancy @ 04:00 PM	9004	CP6-EXTROOM	---
Try-On Rooms		Online		Scene 1	Default - Use Occupancy @ 04:00 PM	9006	CP8-EXTROOM	---
Warehouse		Online		Scene 1	Default - Use Occupancy @ 04:00 PM	9001	CP3-EXTROOM	---
Window Display		Online		Scene 1	Default - Use Occupancy @ 04:00 PM	9008	CP10-EXTROOM	---

Settings

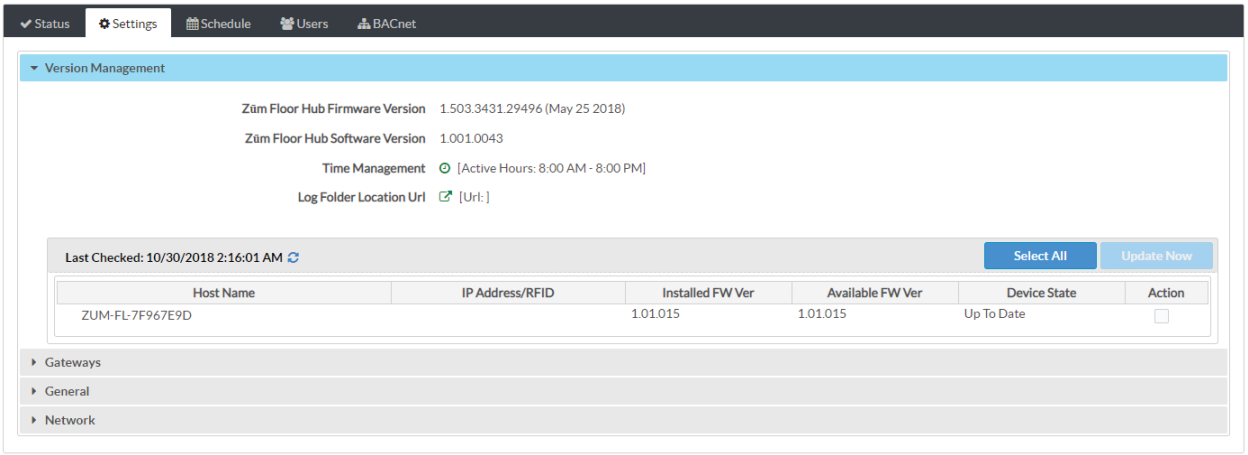
The Settings tab displays and allows you to edit the firmware, system time and location, and the network configuration. It also allows you to view the gateways that are connected to the ZUM-FLOOR-HUB.



Version Management

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

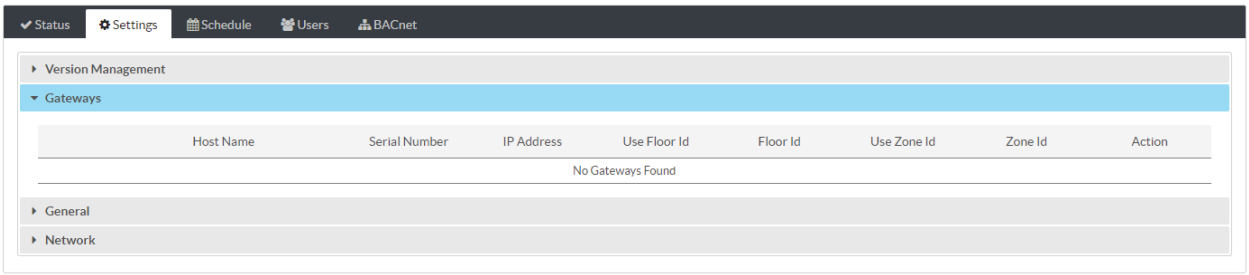
1. Click **Settings**.
2. Click **Version Management**.
3. Check the box under **Action** for the devices whose firmware you want to update.
4. Click **Update Now**.



Gateways

Displays the list of connected Gateways and allows manipulation of the gateway. To view the gateways:

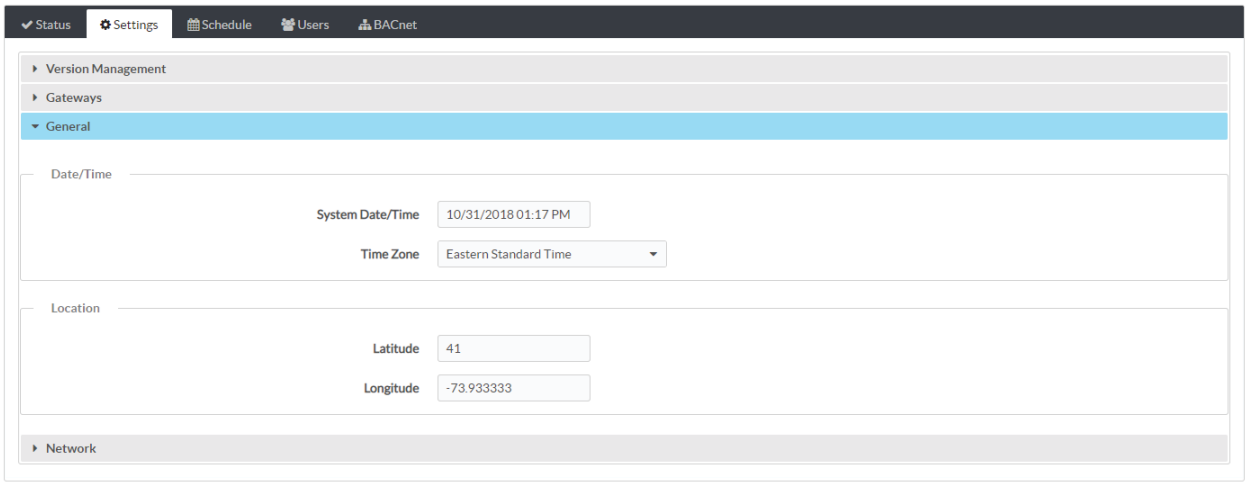
1. Click **Settings**.
2. Click **Gateways**.



General

Displays the date, time, time zone, and location (latitude and longitude) of the ZUM-FLOOR-HUB. To change the date, time, and location:

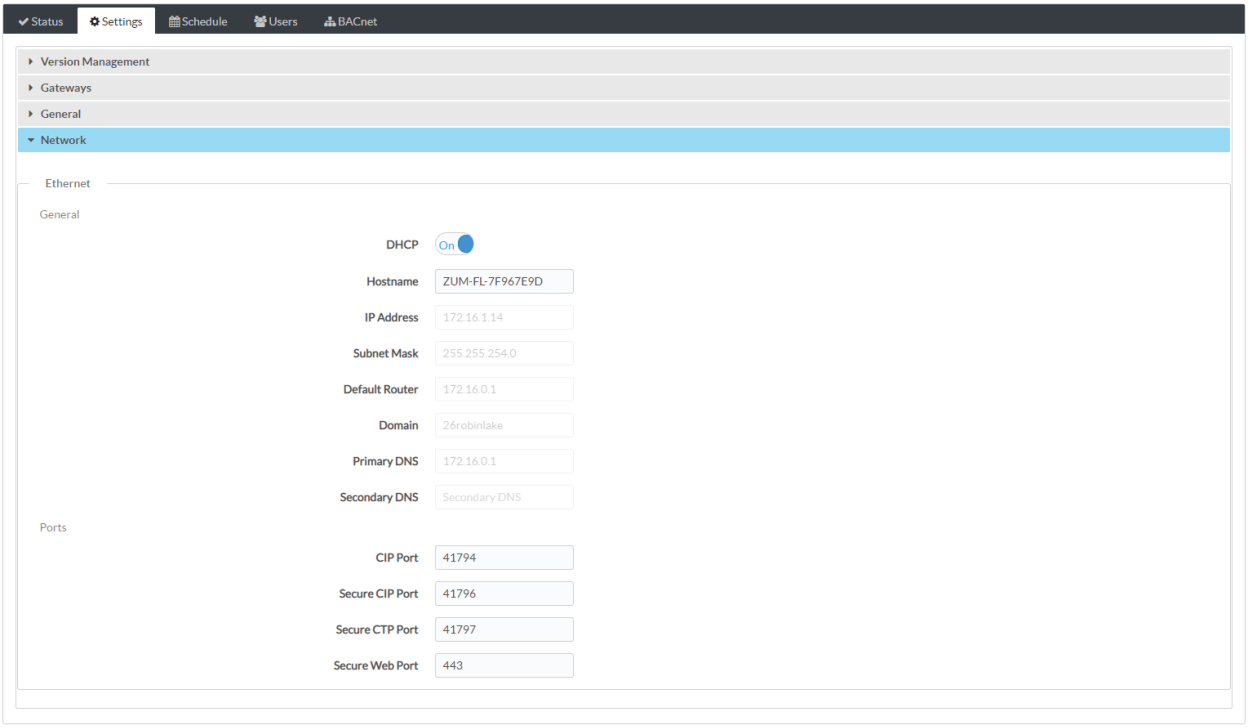
1. Click **Settings**.
2. Click **General**.
3. Enter new values in the fields.



Network

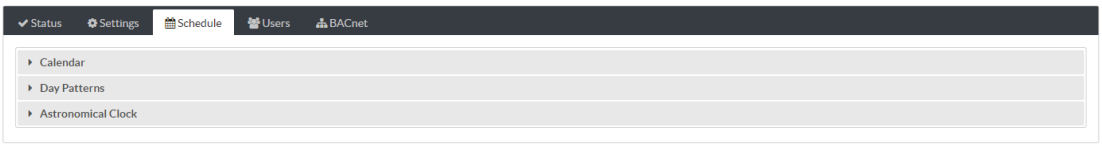
Displays the Ethernet settings. To change the Ethernet settings:

1. Click **Settings**.
2. Click **Network**.
3. Enter new values in the fields. Some fields are not available if DHCP is on.



Schedule

The Schedule tab displays and allows you to edit the device calendar, Day Patterns, and the astronomical clock.

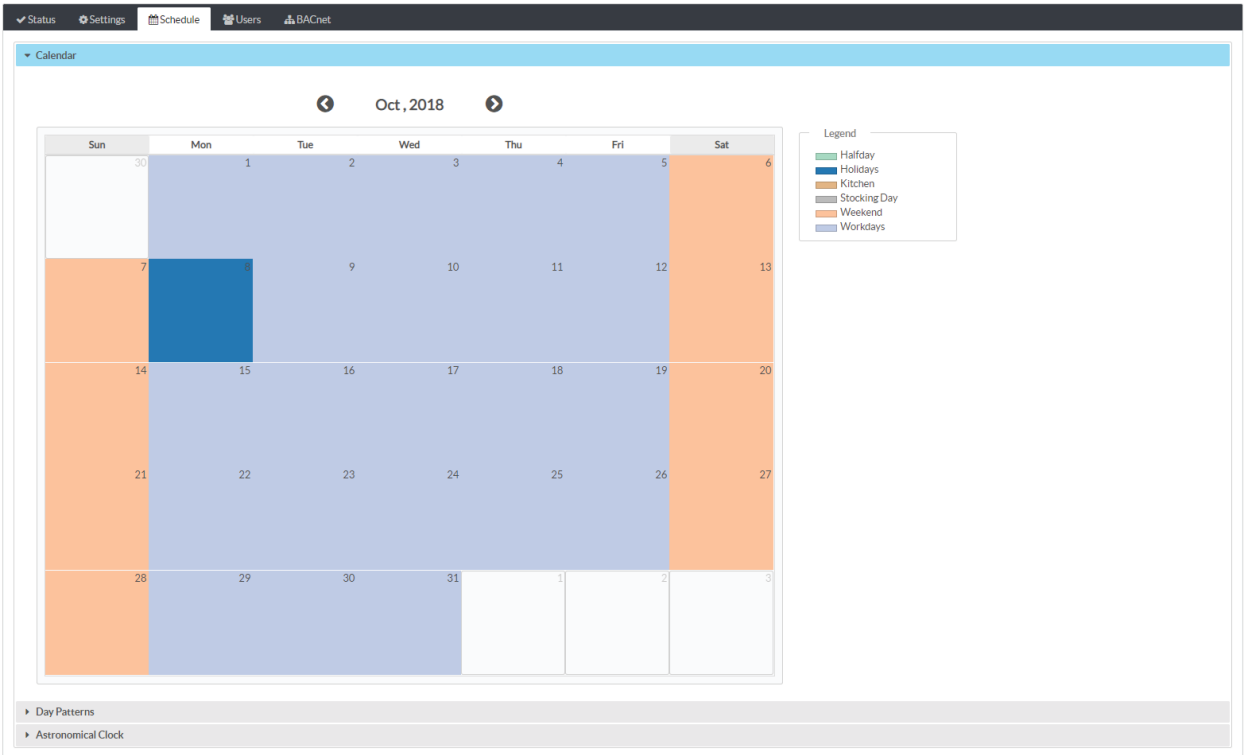


Calendar

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 Day Patterns.

By default, weekdays are assigned the Workday Day Pattern and weekends are assigned the Weekend Day Pattern. Holidays that are enabled in "Configure Holidays" on page 21 are added to the calendar automatically. To assign a Day Pattern:

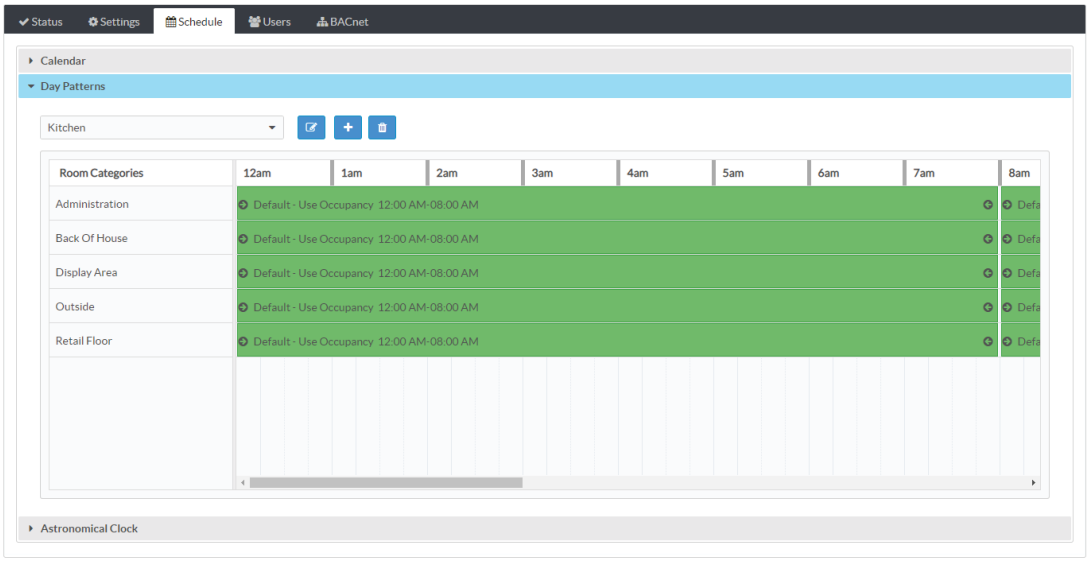
1. Click **Schedule**.
2. Click **Calendar**.
3. Click the desired date. A menu displays a list of the available Day Patterns.
4. Click on the desired Day Pattern.



Day Patterns

A Day Pattern consists of various Room States that are assigned throughout the day. Each Room Category can be assigned a different Room State for each available Day Pattern. To configure the Day Pattern:

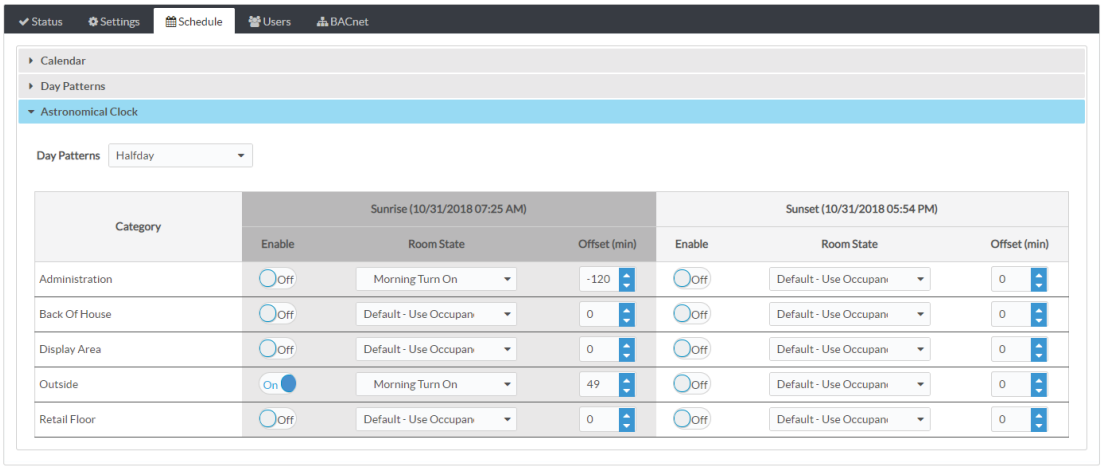
1. Click **Schedule**.
2. Click **Day Patterns**.
3. Click the time-frame associated with the Room Category.
4. Select the Room State from the drop-down list. Refer to “Configure States” on page 23 for information on Room States.
5. Click **Add to Left** or **Add to Right** to assign the selected Room State to the adjacent time period. Click the **Remove** button to remove the Room State.
6. To change the hours of the time-period, click and drag the bar between the right and left arrows at the boundary.



Astronomical Clock

The Astronomical Clock assigns a Room State to a Room Category based on the Day Pattern and the sunrise or sunset. To assign Room States based on the Astronomical Clock:

1. Click **Schedule**.
2. Click **Astronomical Clock**.
3. Select the Day Pattern that will be changed from the Day Patterns drop-down list.
4. For each Room Category:
   - Enable/disable the astronomical clock by toggling On/Off under Enable.
   - Select the Room State from the drop-down list.
   - Select the Offset 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.
5. Repeat Step 2 for each Day Pattern.



Users

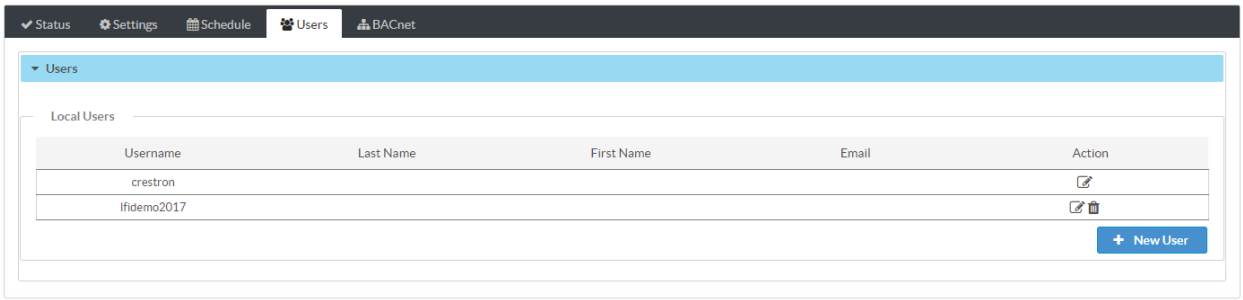
The Users tab shows a list of all users of the ZUM-FLOOR-HUB and allows you to create new users and modify or delete existing users.

Username Requirements

The username must be 3 to 15 characters that consist of uppercase letters (A-Z, lowercase letters (a-z), digits (0-9), and special characters (- ( ) + [ ] . _).

Password Requirements

The password must be 8 to 12 characters that consist of uppercase letters (A-Z, lowercase letters (a-z), digits (0-9), and special characters (#?!@$%^&*-).



Create a New User

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

Edit an Existing User

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

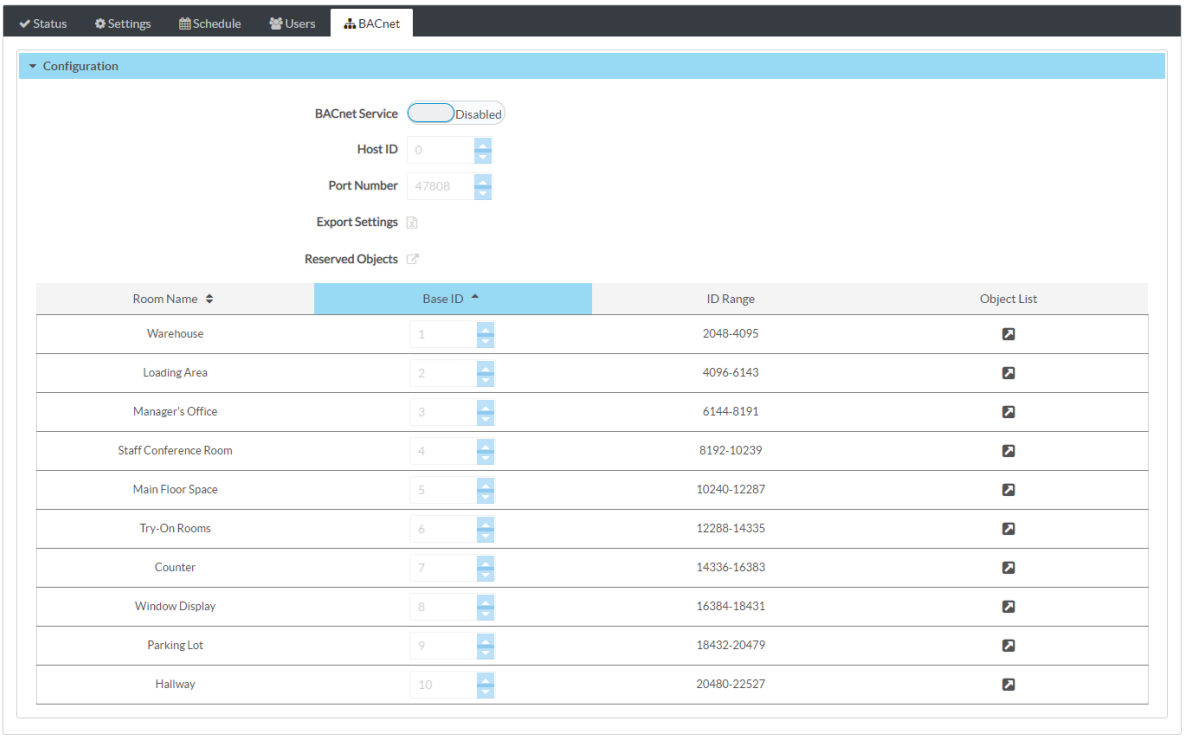
Delete an Existing User

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

BACnet

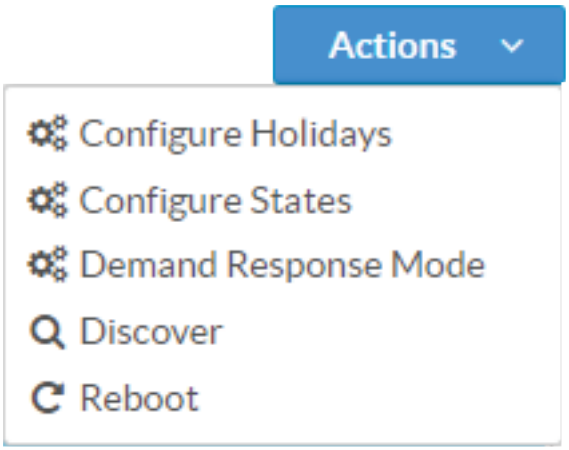
The BACnet tab displays the ZUM-FLOOR-HUB system settings to establish a connection with the BMS (building management system). To configure BACnet service:

1. Click **BACnet**.
2. Click **Configuration**.
3. Configure the BACnet settings.
    - BACnet Service: Toggle the Enabled/Disabled radio button to enable or disable the BACnet service.
    - Host ID: The ID that the ZUM-FLOOR-HUB 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-FLOOR-HUB.
    - Room Name: The name of the room that was assigned in the Room Category View.
    - Base ID: Orders the device in the system and assigns the object IDs.
    - ID Range: The range of IDs that the room can use.
    - Object List: Displays a list of all Object IDs, Object Names, and Object Types within the selected room.



Actions

The actions drop-down allows you to configure the observed holidays, room states, and demand response mode. It also allows you to discover new devices and reboot the ZUM-FLOOR-HUB.



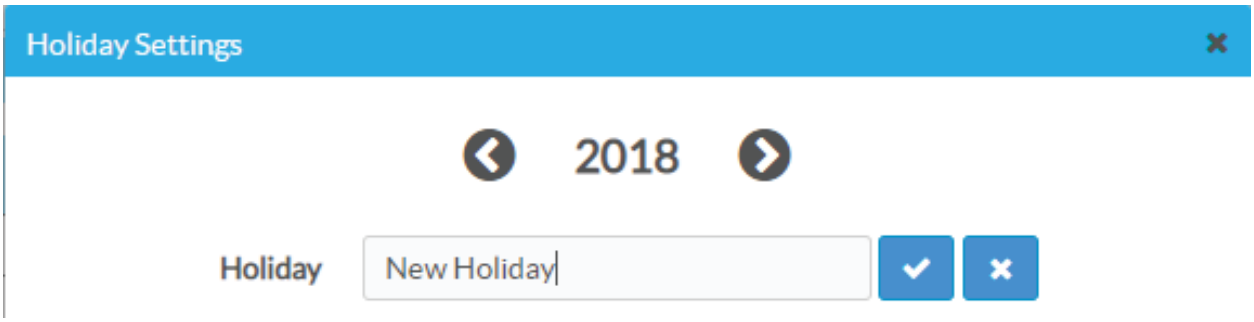
Configure Holidays

The Configure 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.

Create a New Holiday

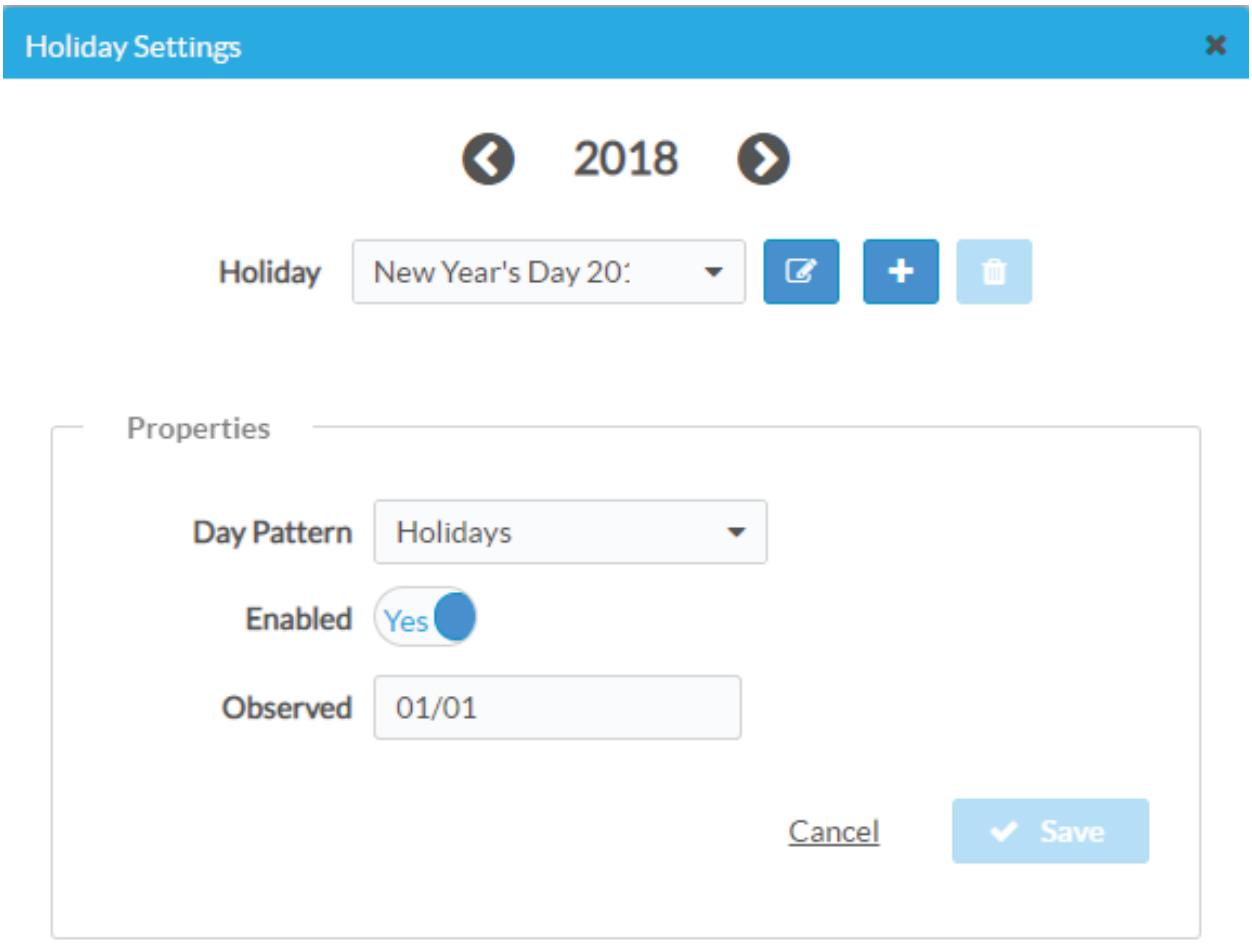
1. Click **Actions**.
2. Click **Configure Holidays**.
3. Click the + icon to add a new holiday.
4. Enter the name of the holiday and then click ✓ to save or ✖ to cancel.



5. Configure the holiday. Refer to "Configure the Observed Holidays" on page 22 for details.

Configure the Observed Holidays

1. Click **Actions**.
2. Click **Configure Holidays**.
3. Select the Holiday from the drop-down list and then configure the holiday.
   - Enable or disable the holiday.
   - Select its Day Pattern.
   - Enter the date that it is observed.



4. Click **Save** to save the changes or **Cancel** to exit without saving the changes.

Change the Holiday Name

1. Click **Actions**.
2. Click **Configure Holidays**.
3. Select the Holiday from the Holiday drop-down menu.
4. Click to edit the name of the holiday.
5. Enter the name of the holiday and then click to save or to cancel.

Configure 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.

Room States are applied to a Room Category in the "Schedule" on page 16.

Configure the Existing States

1. Click **Actions**.
2. Click **Configure States**.
3. Select a state from the Room States drop-down list.
4. Configure the state:
   - Scene: Click the drop down and then select Scene 1-16, None, or Room Off.
   - Occupancy: Click the drop down and then select Enabled, Disabled, or Unaffected.
   - Plug Loads: Click the drop down and then select On, Off or Unaffected.

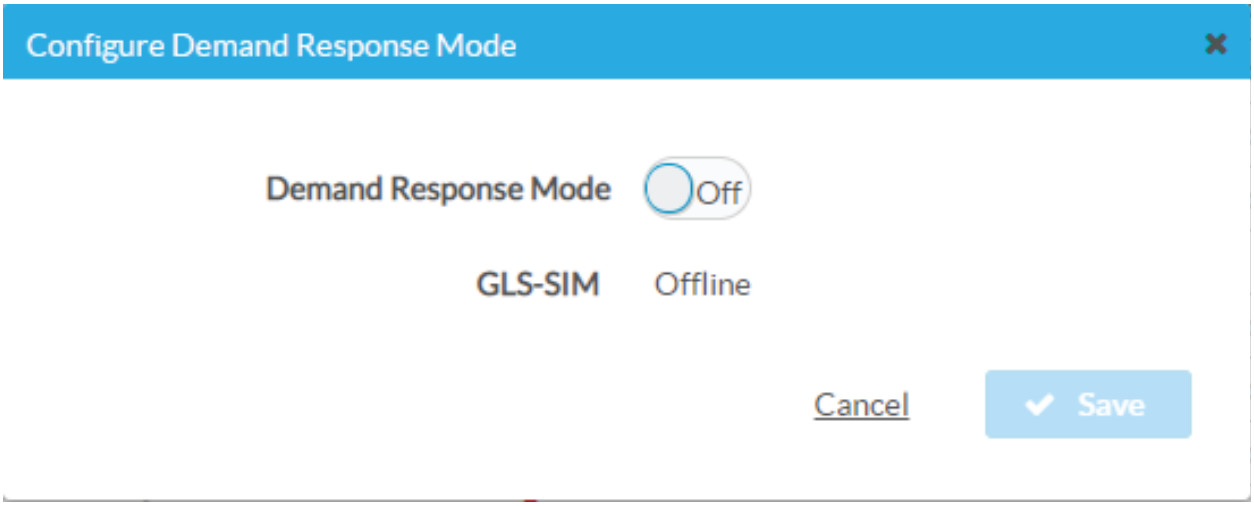
Create a New State

1. Click **Actions**.
2. Click **Configure States**.
3. Click the + icon to add a new state.
4. Enter the name of the state and then click ✓ to save or ✕ to cancel.
5. Configure the state.
   - Scene: Click the drop down and then select Scene 1-16, None, or Room Off.
   - Occupancy: Click the drop down and then select Enabled, Disabled, or Unaffected.
   - Plug Loads: Click the drop down and then select On, Off or Unaffected.

Demand Response Mode

Enable or disable Demand Response mode.

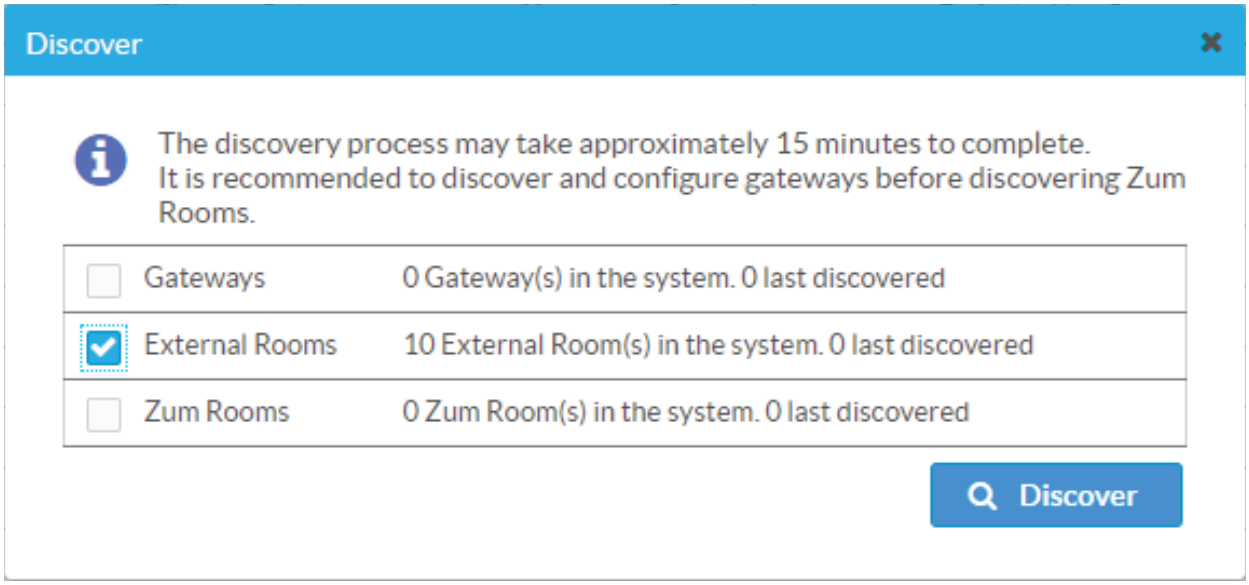
1. Click **Actions**.
2. Click **Demand Response Mode**.
3. Click the slider to toggle Demand Response Mode On and Off. The Demand Response icon lights green.
4. Click **Save** to save the changes or **Cancel** to exit without saving the changes.



Discover

Use the Discover dialog to find connected devices such as Gateways, External Rooms, and Zūm Rooms. The available Gateways must be discovered and configured before external rooms and Zūm rooms are discovered. Discover the connected devices:

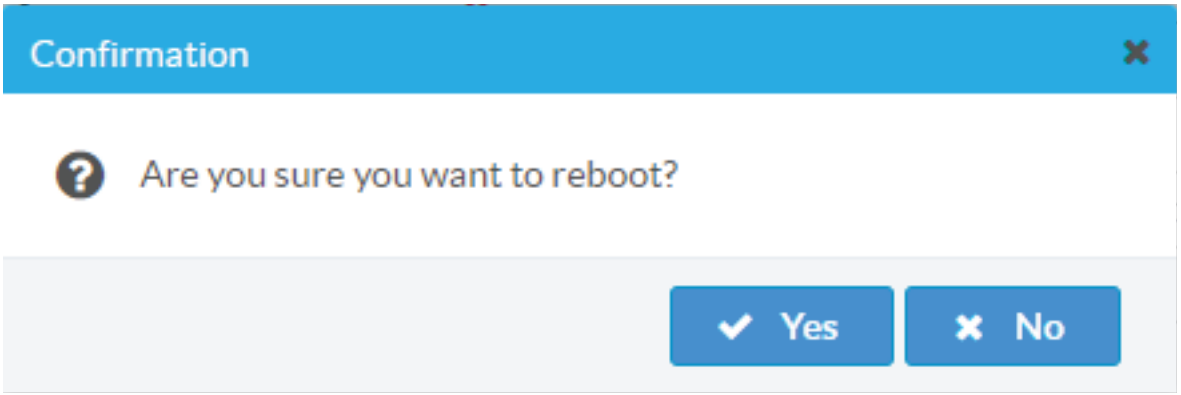
1. Click **Actions**.
2. Click **Discover**.
3. Select the devices that you would like to find (Gateways, External Rooms, or Zūm Rooms. The Discover dialog indicates the total number of discovered devices for each device type and also the number of devices discovered the last time Discover was run.
4. Click **Discover**. Devices are added to the Room Category View as they are found.



Reboot

To restart the ZUM-FLOOR-HUB:

1. Click **Actions**.
2. Click **Reboot**.
3. Click Yes to reboot or No to cancel.



Display Device Information and Status

Demand Response Status

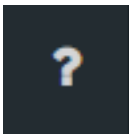
Demand response is enabled.

Demand response is disabled.

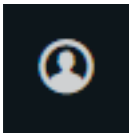
System Information

Displays system alerts.

Help


Click to view the in-app help file.

Sign Out


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

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Supplemental Guide – DOC. 8355A
(2052438)
01.19
Specifications subject to
change without notice.