

# **ecoSYS**

## **Site Supervisor**

### **Lighting & Power**

#### **Applications**

Education You Can Build On



***Presented By:***

**(Instructor Name)**



# ***Housekeeping***

- Smile Card
- No Smoking
- Class Length
- Portable Phones and Beepers
- Rest Rooms
- Fire Safety



# ***Course Reference Materials***

- Participant Manual
- *ecoSYS Site Supervisor Controller User Guide*
- *ecoSYS Site Supervisor Quick Setup Guide*

# ***Course Agenda***

- Create a Lighting Application
- Create a Schedule for Control of a Lighting Application
- **Create a Power Monitoring Application**
- Create a Multi-point Graph
- Override Lights



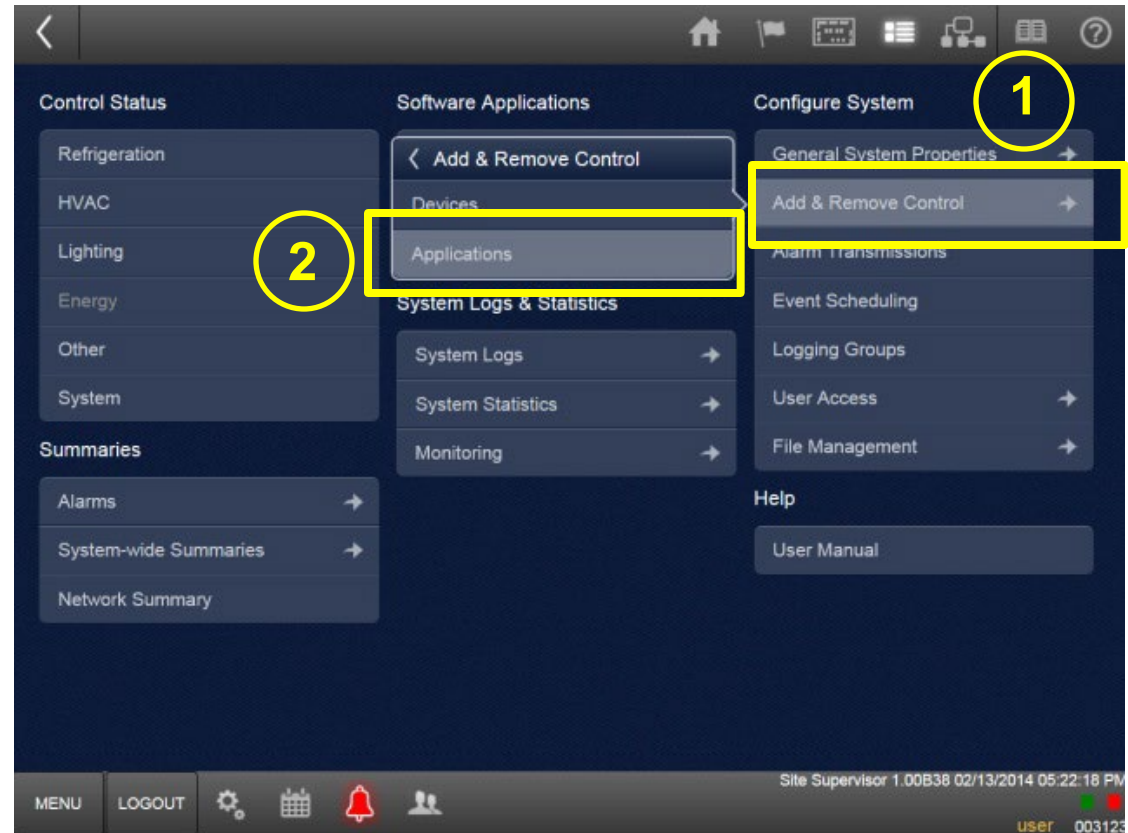
# Create a Lighting Application

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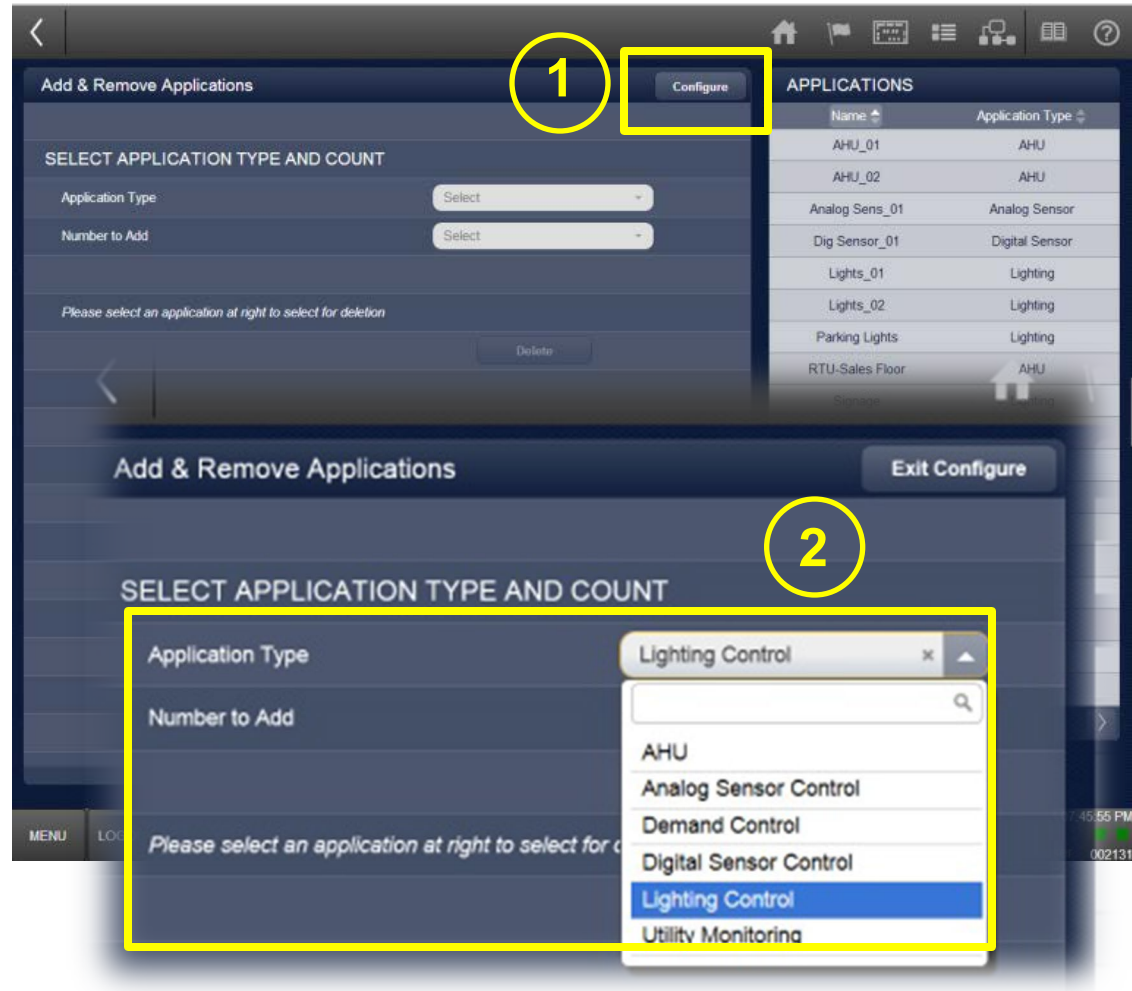
# Create a Lighting Application

- Login to Site Supervisor; go to the **Site Map**.
- Choose **Add & Remove Control**, then **Applications**.



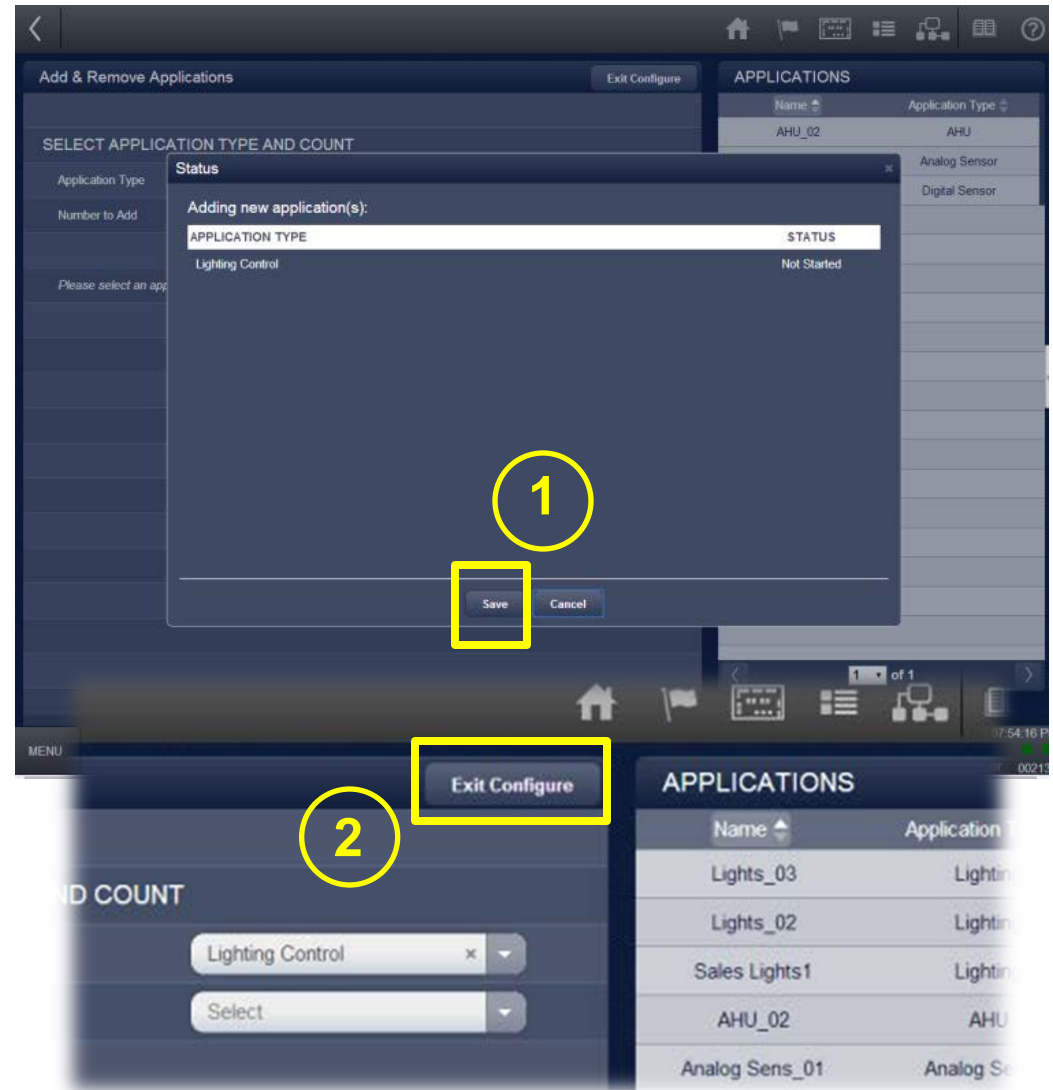
# Create a Lighting Application

- Select **Configure**
- From the dropdowns, select the **Application Type** and **Number to Add**.



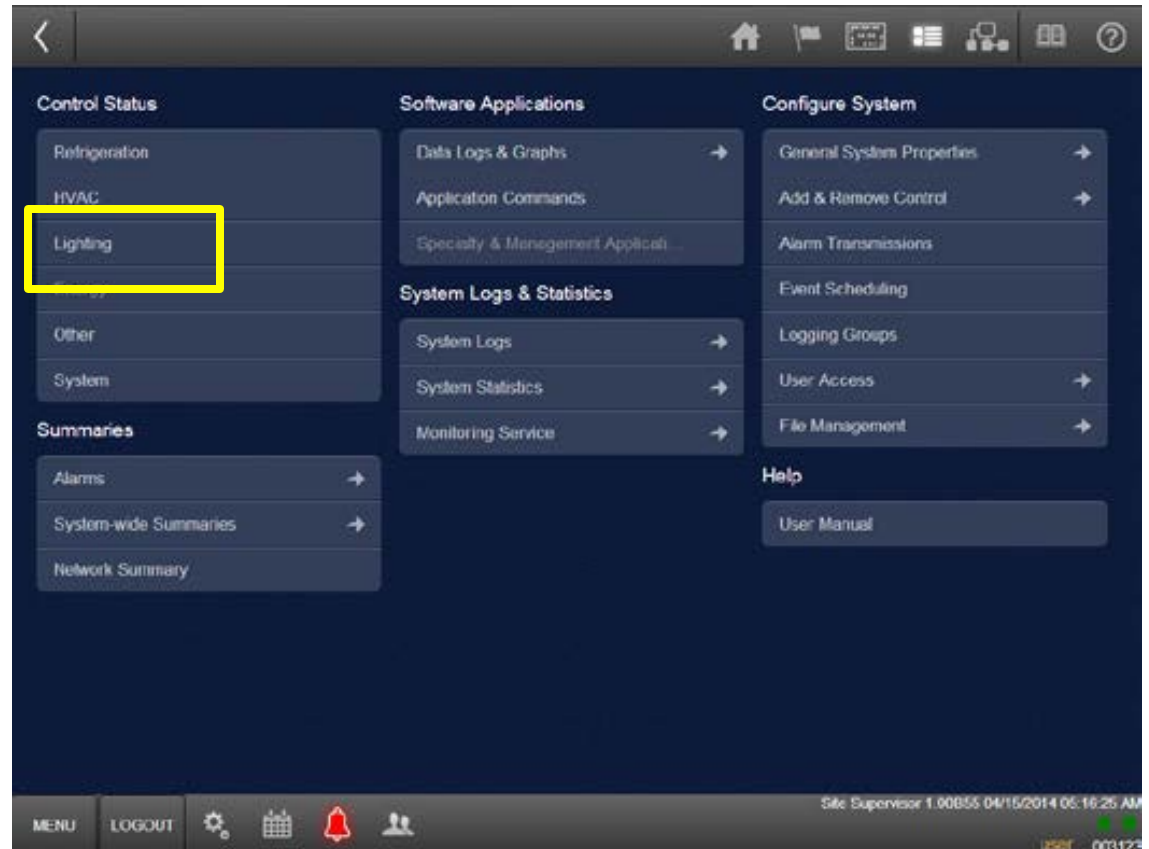
# Create a Lighting Application

- Select **Save**, then **Exit Configure**.



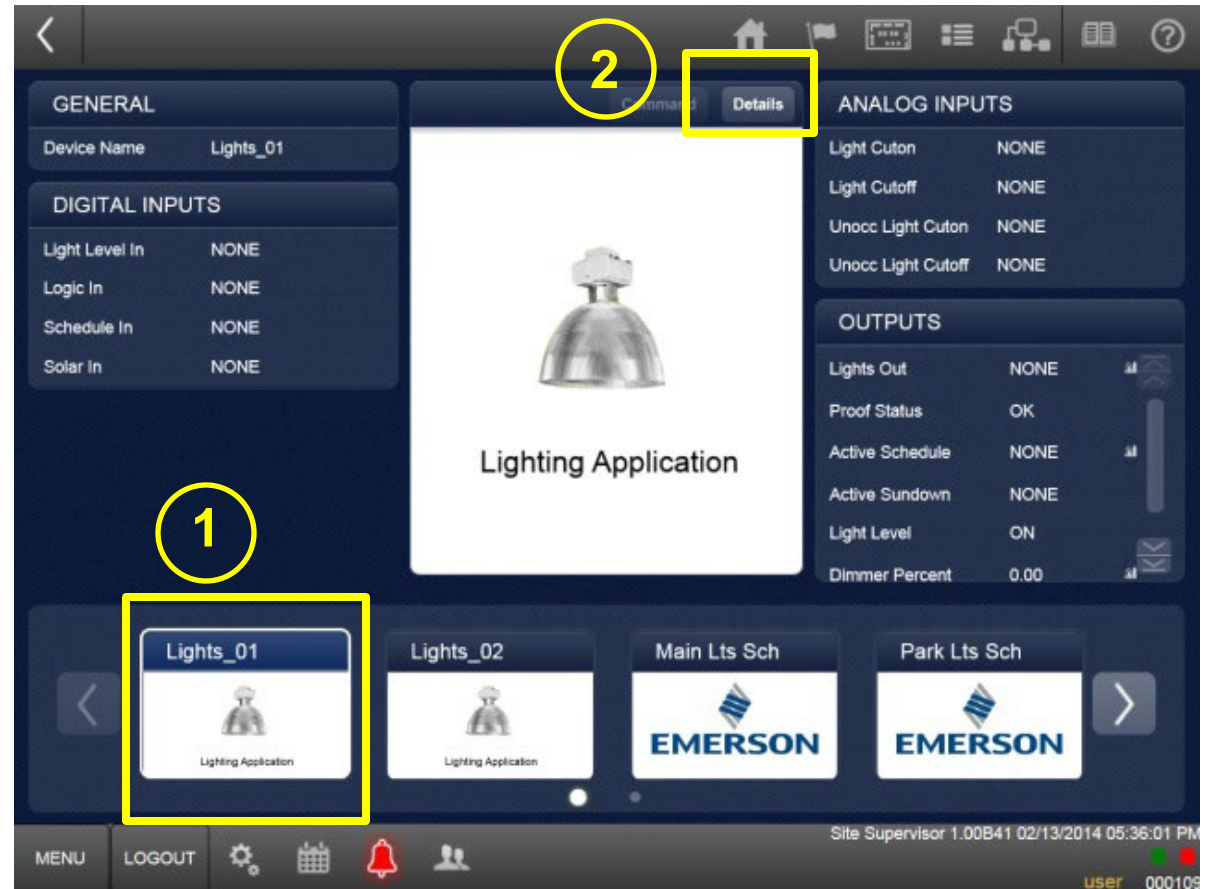
# Lighting Application Setup

- Return to **Site Map**.
- Under Control Status, choose **Lighting**.



# Lighting Application Setup

- Select the Lighting Application, then click on **Details**.



# Lighting Application Setup

- On the Setup tab:
  - Select **Configure**.
  - Enter details for name of Lighting application and Category
- Select **Save**.



# Lighting Application Setup

- **Lights On** tab:
  - Select Lights ON input to set logic.

The screenshot displays the 'Lights\_01 DETAILS' configuration screen. The main area is a table with columns for POINT NAME, VALUE, UNIT, and POINTER. The first row, 'Lights ON Input 1', is highlighted with a yellow box and shows a dropdown menu with 'Sched' selected. The right-hand sidebar contains a list of configuration options, with 'Lights ON' highlighted by a red box. At the bottom of the sidebar are 'Save', 'Undo', and 'Cancel' buttons. The bottom status bar shows 'MENU', 'LOGOUT', and system information: 'Site Supervisor 1.00B55 04/13/2014 12:48:47 AM' and 'user 000110'.

POINT NAME	VALUE	UNIT	POINTER
Lights ON Input 1	Sched		
Lights ON Logic 1	----		
Lights ON Input 2	----		
Lights ON Logic 2	----		
Lights ON Input 3	----		
Lights ON Logic 3	----		
Lights ON Input 4	----		

RIGHT SIDEBAR (Lights\_01 DETAILS):

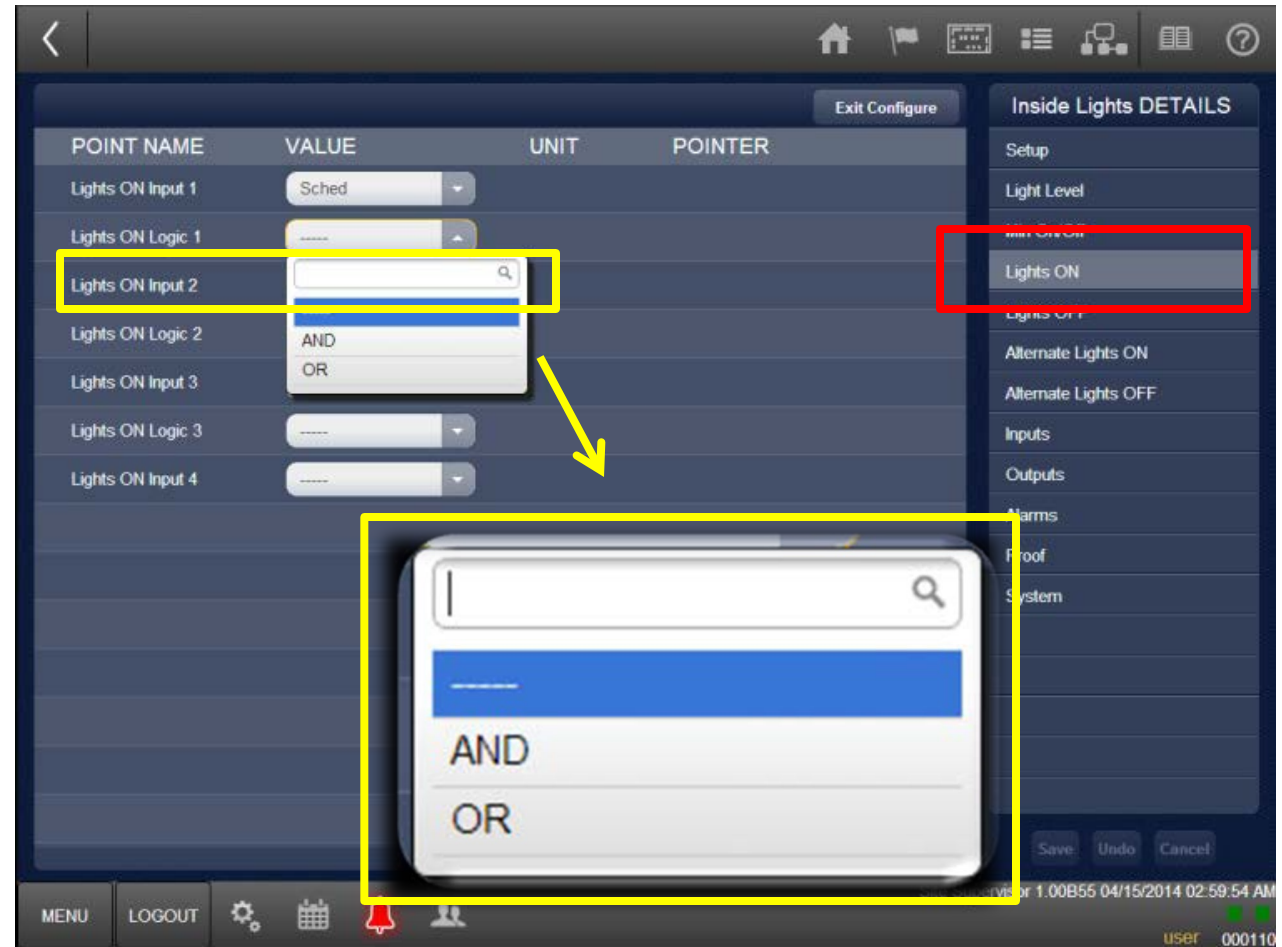
- Setup
- Light Level
- min level
- Lights ON**
- Lights OFF
- Alternate Lights ON
- Alternate Lights OFF
- Inputs
- Outputs
- Alarms
- Proof
- System

Buttons: Save, Undo, Cancel

Status Bar: MENU, LOGOUT, Site Supervisor 1.00B55 04/13/2014 12:48:47 AM, user 000110

# Lighting Application Setup

- Can set logic for Multiple Inputs
- Select **Save**.



# Lighting Application Setup

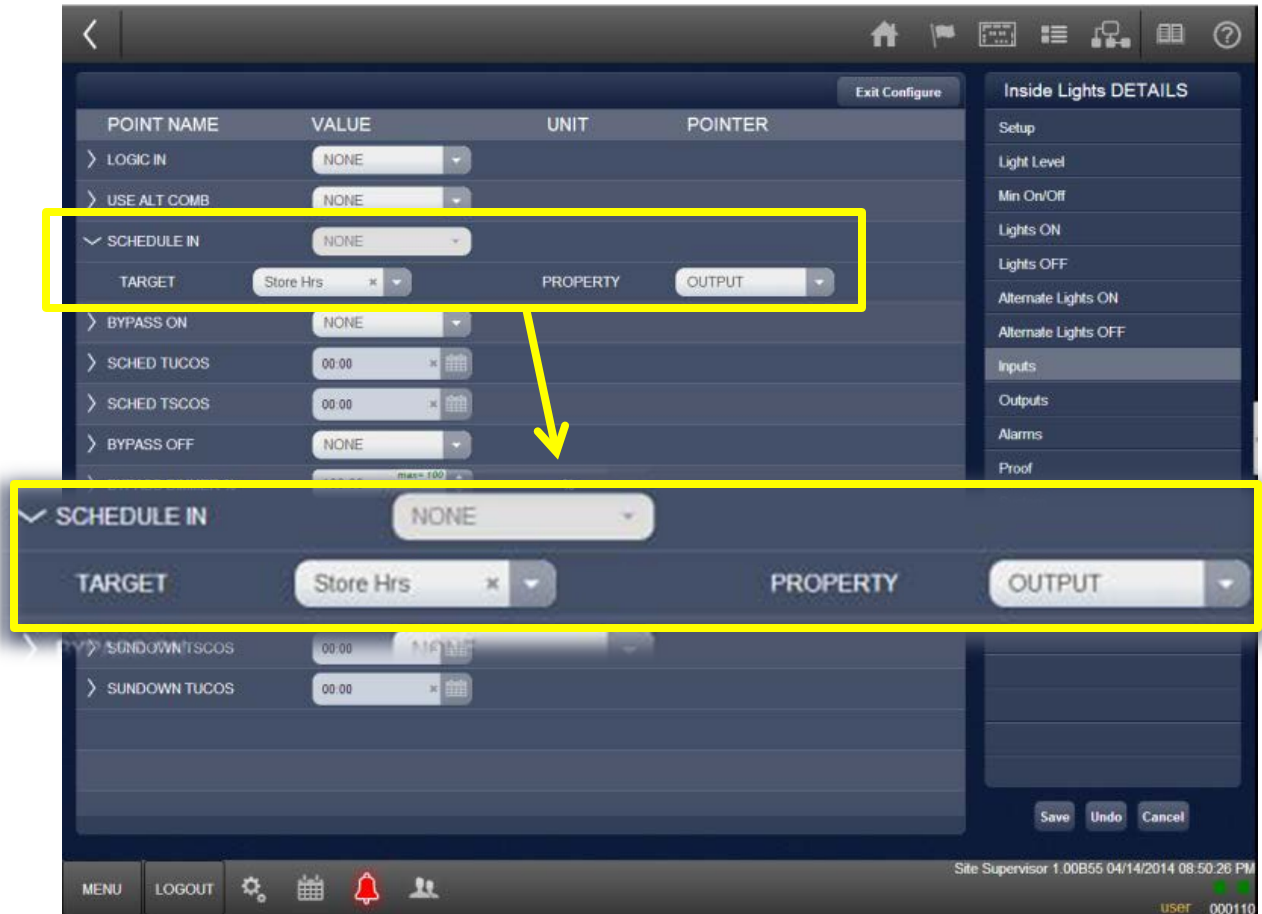
- Inputs tab:
  - Select **Configure**.
  - Select arrow next to **Schedule In**.

The screenshot displays the 'Inputs' tab configuration screen. The main table lists various lighting points with columns for POINT NAME, VALUE, UNIT, and POINTER. The 'SCHEDULE IN' row is highlighted with a yellow box, and its expansion arrow is circled with a yellow '2'. The 'Configure' button in the top right is circled with a yellow '1'. A red box highlights the 'Inputs' option in the right-hand sidebar menu. The bottom status bar shows 'Site Supervisor 1.00855 04/15/2014 03:29:29 AM' and 'user 000110'.

POINT NAME	VALUE	UNIT	POINTER
> LOGIC IN	NONE		
> USE ALT COMB	NONE		
✓ SCHEDULE IN	NONE		
TARGET		PROPERTY	
> BYPASS ON	NONE		
> SCHED TUCOS	00.00		
> SCHED TSCOS	00.00		
> BYPASS OFF	NONE		
> BYPASS DIMMER %	100.00	%	
> ALL LIGHTS ON	NONE		
> DEMAND SHED	NONE		
> SUNDOWN	NONE		
> SUNDOWN TSCOS	00.00		
> SUNDOWN TUCOS	00.00		

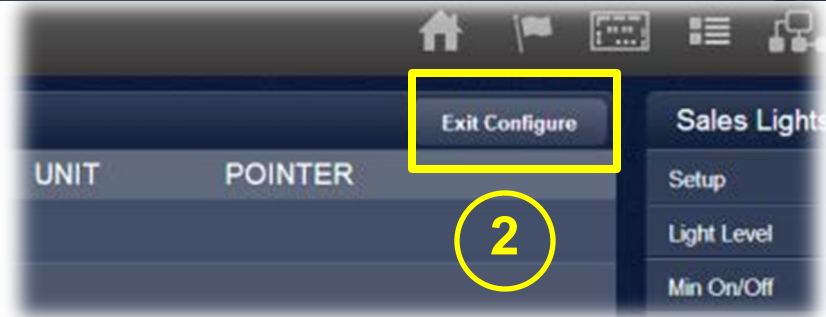
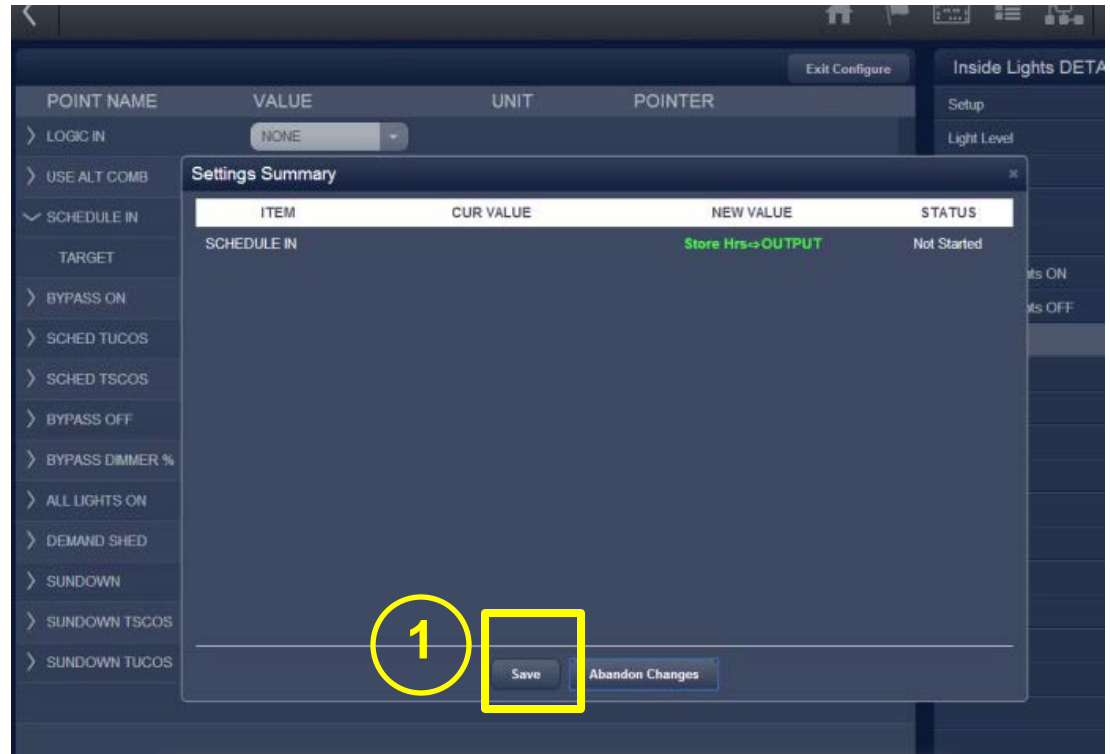
# Lighting Application Setup

- Select schedule from **Target** dropdown.
- Set **Property** to Output.



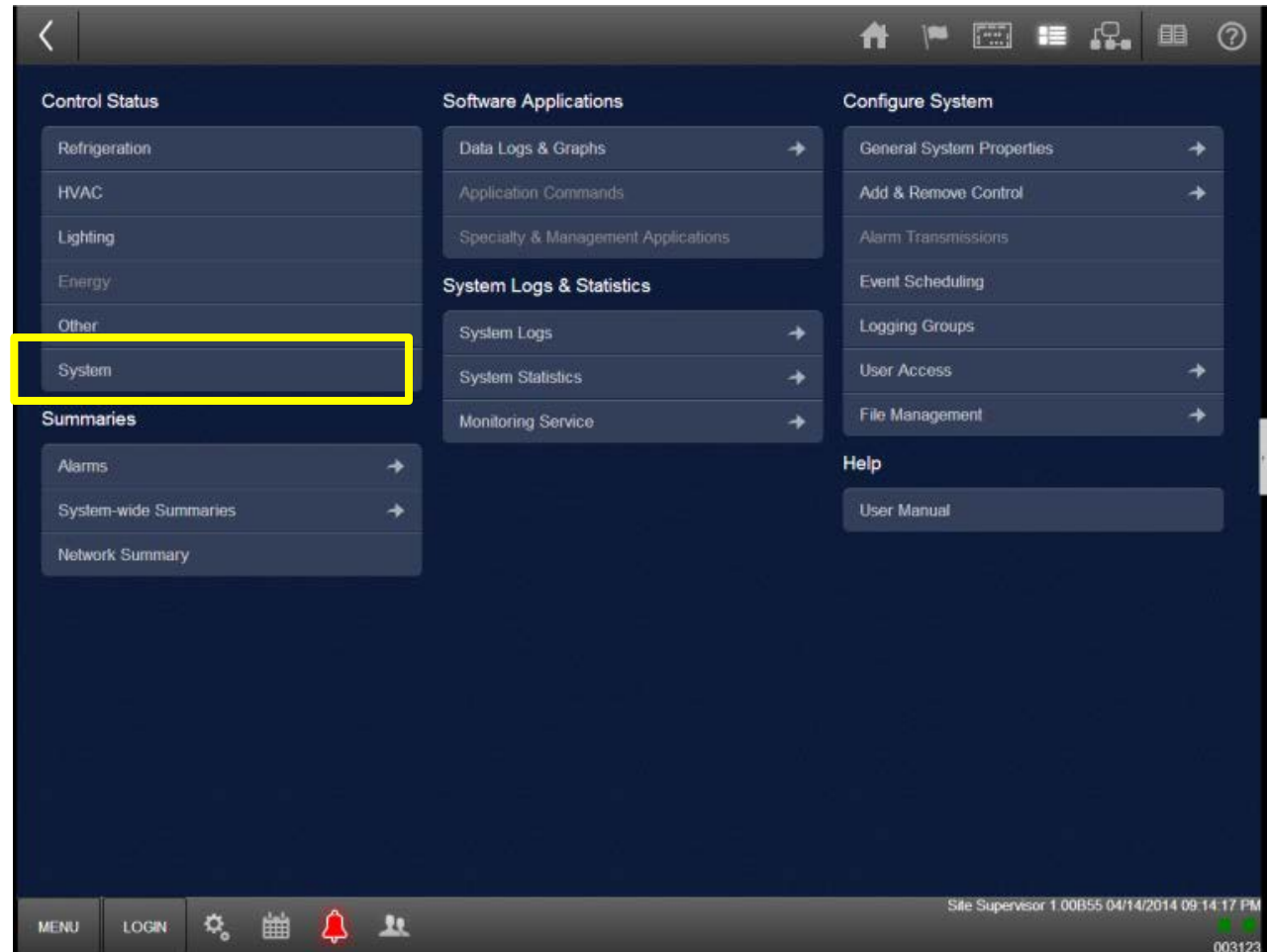
# Lighting Application Setup

- Select **Save**, then **Exit Configure**.



# Associating Relay Output for Lighting

- Go to the **Site Map**
- Under **Control Status**, choose **System**.



# Associating Relay Output for Lighting

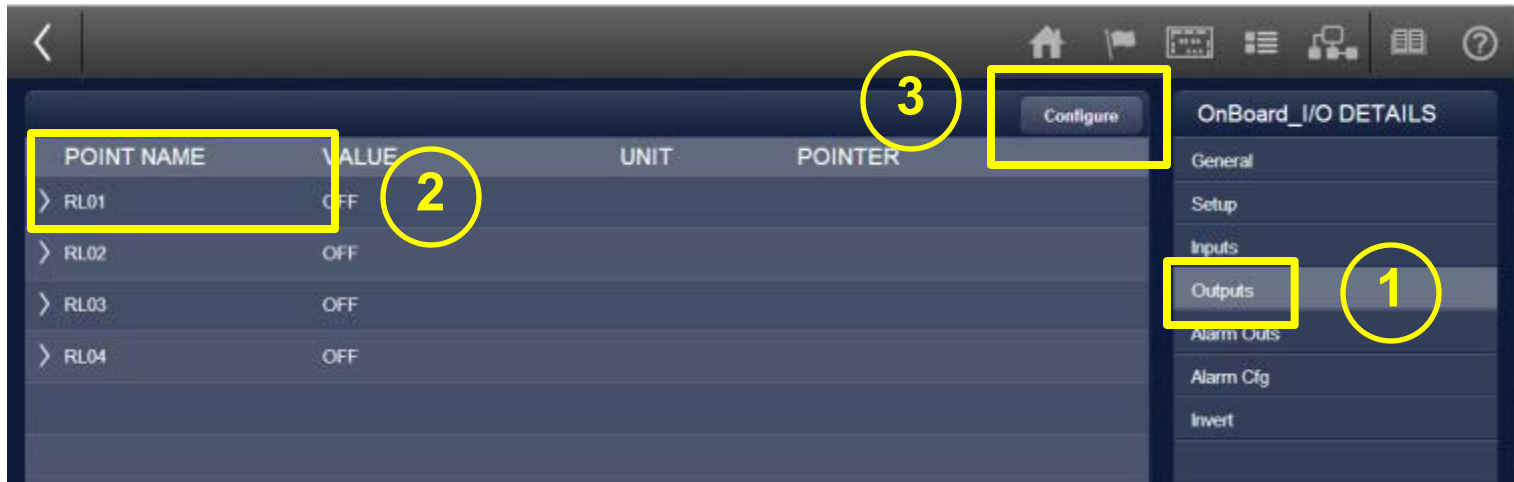
- Select the hardware device that has the relay output.
- Select **Details**.

The screenshot displays the Emerson control interface with several sections and highlighted elements:

- RELAYS:** RL01 OFF, RL02 OFF, RL03 OFF, RL04 OFF.
- DIGITAL INPUTS:** DI01 OFF, DI02 OFF, DI03 OFF, DI04 OFF.
- ANALOG INPUTS:** AI01 75.02, AI02 NONE, AI03 0.30, AI04 NONE, AI05 NONE, AI06 NONE, AI07 NONE, AI08 NONE.
- Hardware Device Selection:** A row of buttons labeled GLOBAL DATA, IPX#1, IPX#2, and OnBoard\_I/O. The OnBoard\_I/O button is highlighted with a yellow box and a circled '1'.
- Details Button:** A 'Details' button is highlighted with a yellow box and a circled '2'.

At the bottom, there is a status bar with 'MENU', 'LOGIN', and system information: 'Site Supervisor 1.00B55 04/14/2014 09:17:46 PM' and '00010'.

# Associating Relay Output for Lighting



- Select the **Outputs** tab.
- Select the relay being used to switch the load.
- Select **Configure**.

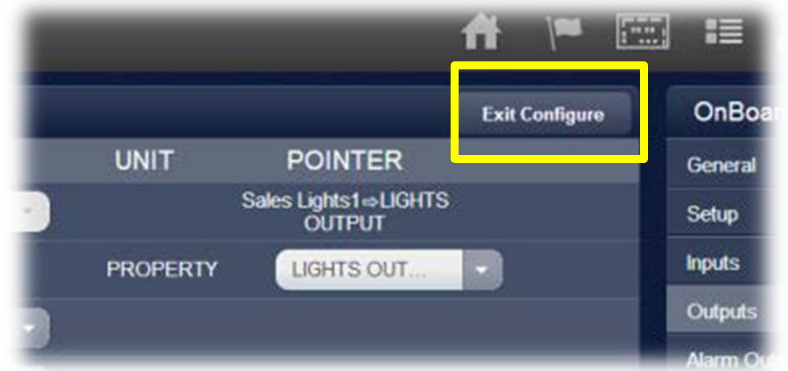
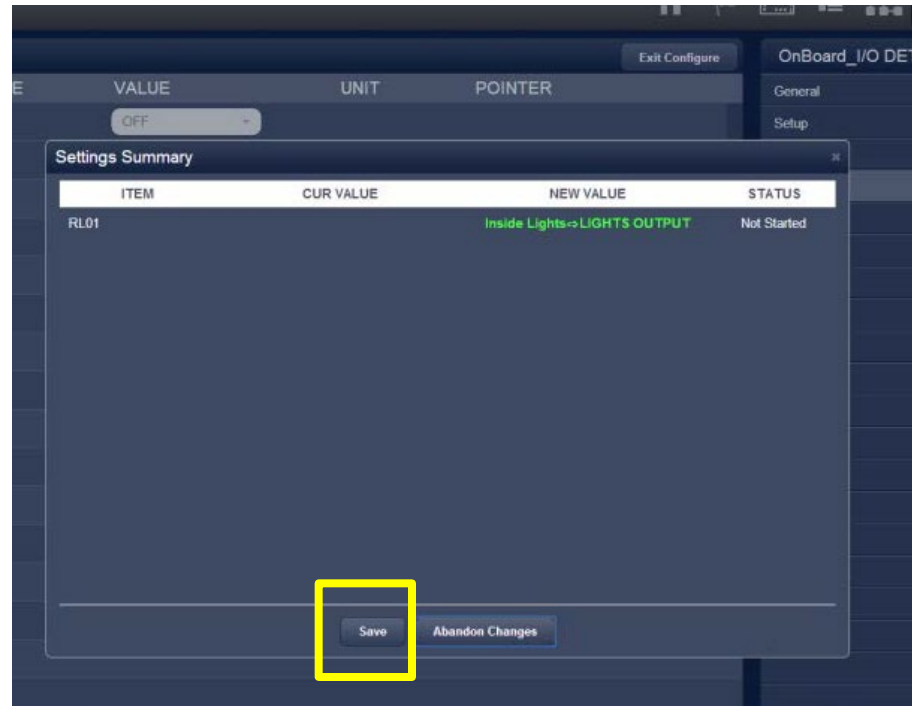
# Associating Relay Output for Lighting

- For **Target**, select the application that will be associated.
- For **Property**, select the output from the application that will switch by the control input.



# Associating Relay Output for Lighting

- Select **Save**.
- Select **Exit Configure**, then return to the Home screen.





# Create a Schedule for Control of a Lighting Application

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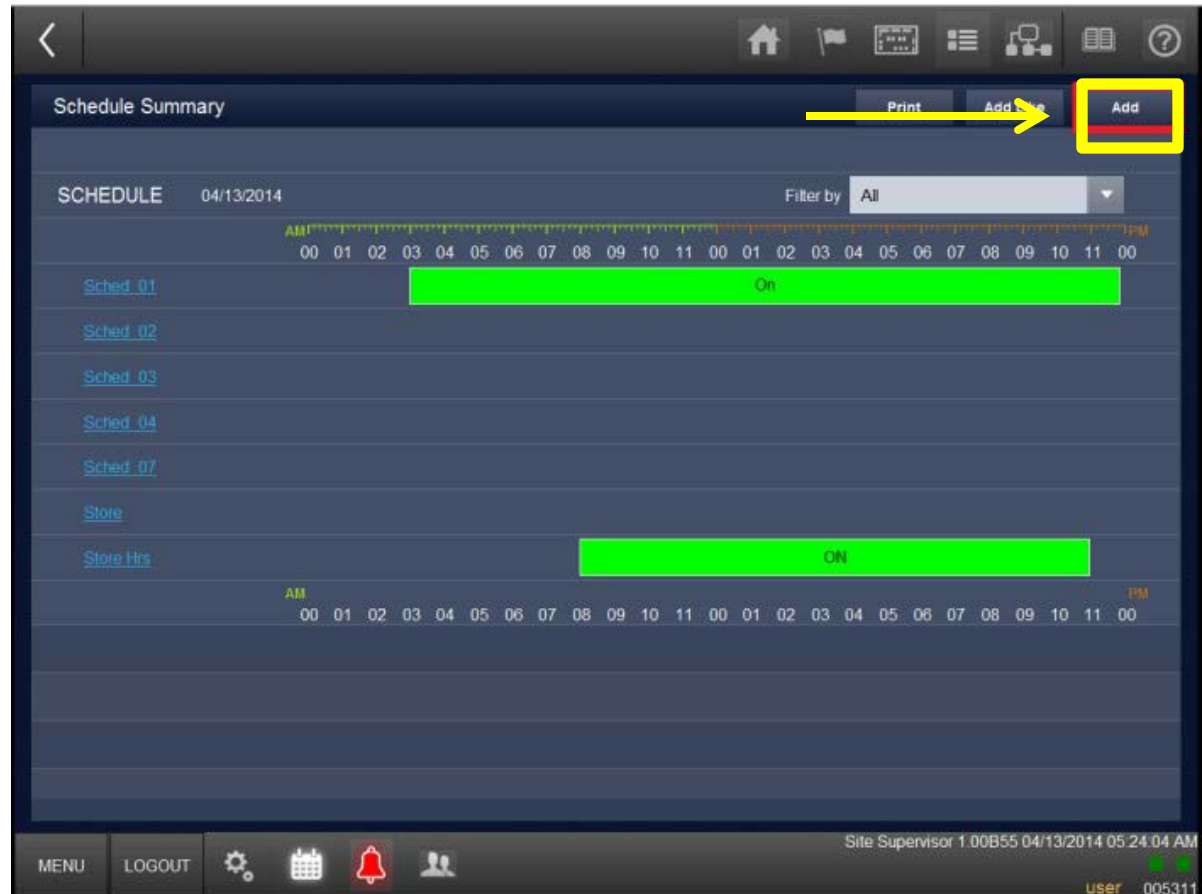
# Create a Schedule for Lighting Application

- From the Home screen, select the **Calendar** icon to open Schedule Summary.



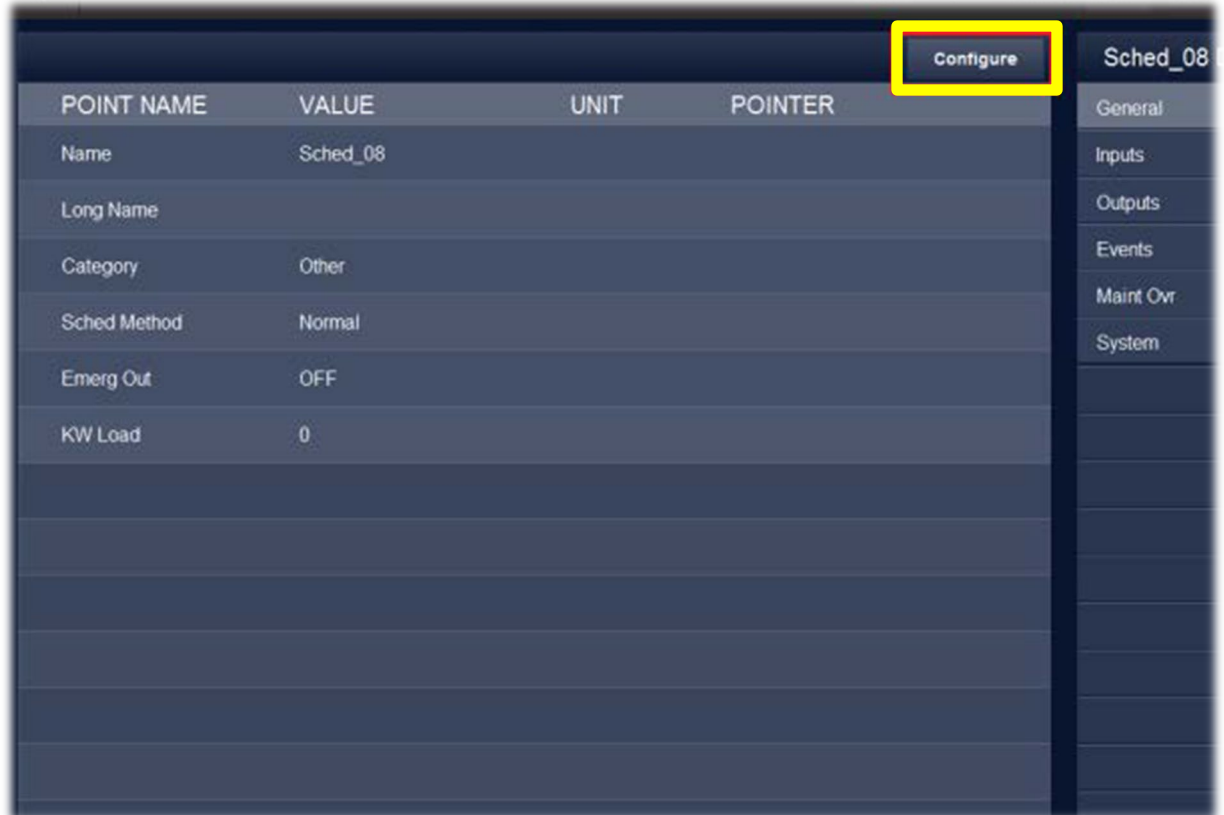
# Create a Schedule for Lighting Application

- Click on **Add** to create a new schedule.



# Create a Schedule for Lighting Application

- Click on **Configure**.



The screenshot displays a software interface for configuring a lighting schedule. A table lists various parameters, and a 'Configure' button is highlighted with a yellow box. The table data is as follows:

POINT NAME	VALUE	UNIT	POINTER
Name	Sched_08		
Long Name			
Category	Other		
Sched Method	Normal		
Emerg Out	OFF		
KW Load	0		

On the right side of the interface, there is a vertical menu with the following items: Sched\_08, General, Inputs, Outputs, Events, Maint Ovr, and System.

# Create a Schedule for Lighting Application

- On the **General** tab:
  - Name the schedule.
  - Assign it to a category.

The screenshot shows a mobile application interface for configuring a lighting schedule. The main screen displays a form with the following fields:

POINT NAME	VALUE	UNIT	POINTER
Name	Store Hrg		
Long Name			
Category	Other		
Sched Method	Normal		
Emerg Out	OFF		
KW Load	0		

The 'General' tab is selected, and the 'Name' and 'Category' fields are highlighted with yellow boxes. A yellow arrow points from the 'Name' field in the main form to the 'Name' field in a modal dialog box. The modal dialog box shows the following fields:

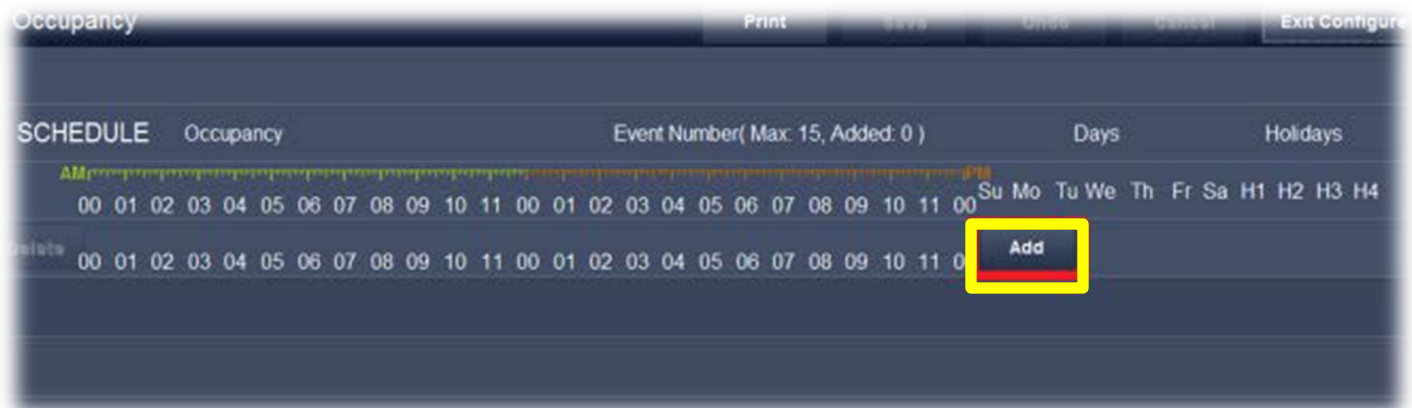
POINT NAME	VALUE
Name	Store Hrg
Long Name	
Category	Other
Sched Method	Normal
Emerg Out	OFF
KW Load	0

The modal dialog box also includes a 'Cancel' button and a timestamp of 2/2014 03:17:00 AM. The user is identified as 'user' with ID '000110'.



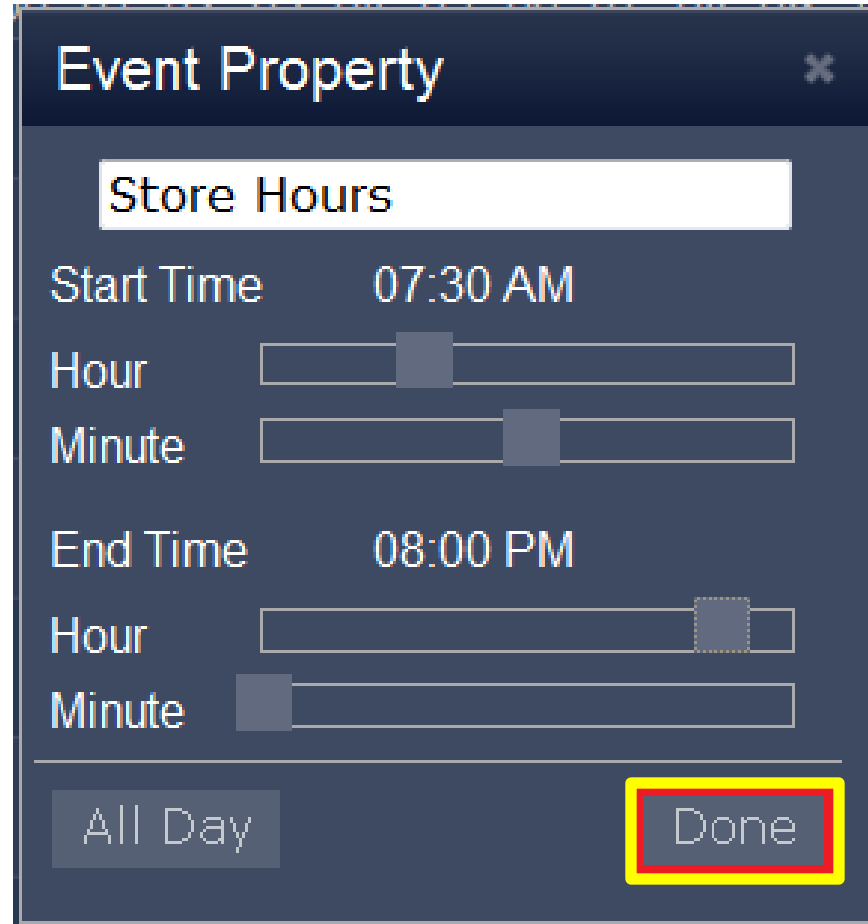
# Create a Schedule for Lighting Application

- **Events tab:**
  - Click on **Add** to create a new Event.



# Create a Schedule for Lighting Application

- **Event Property** box:
  - Name
  - Start Time
  - End Time
  - Select **Done** to save changes

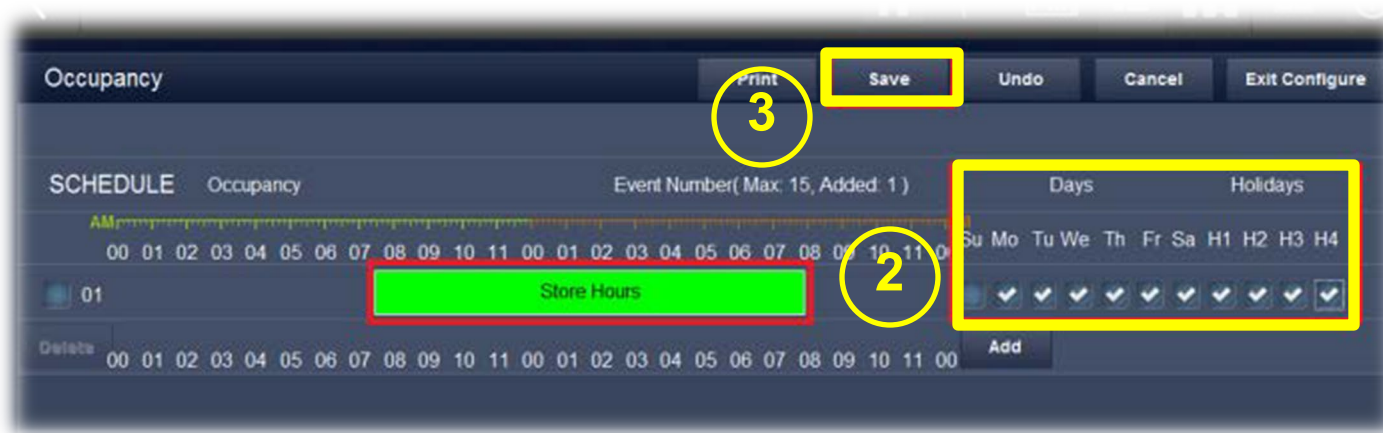
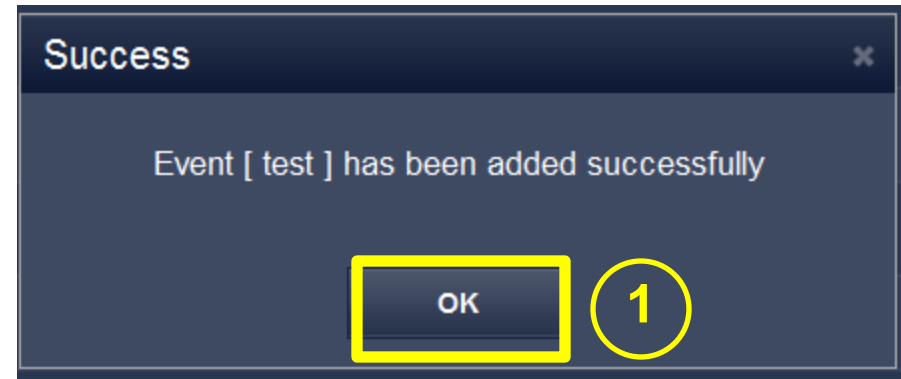


The screenshot shows a dark-themed dialog box titled "Event Property" with a close button (X) in the top right corner. The dialog contains the following elements:

- A text input field containing "Store Hours".
- A "Start Time" label followed by the text "07:30 AM".
- Two sliders for "Hour" and "Minute" for the start time, with the hour slider set to 7 and the minute slider set to 30.
- An "End Time" label followed by the text "08:00 PM".
- Two sliders for "Hour" and "Minute" for the end time, with the hour slider set to 8 and the minute slider set to 0.
- At the bottom, there are two buttons: "All Day" on the left and "Done" on the right. The "Done" button is highlighted with a red and yellow border.

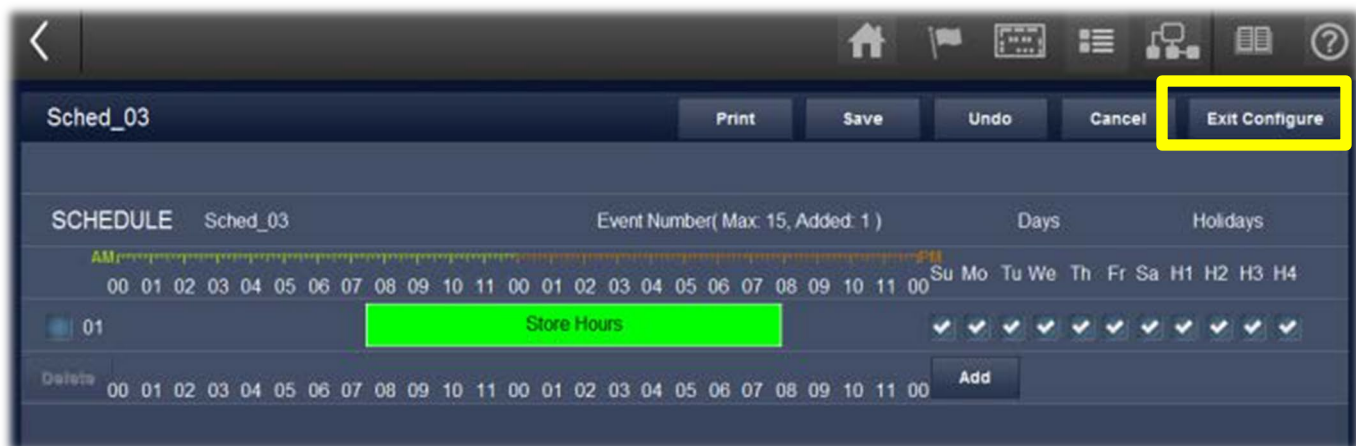
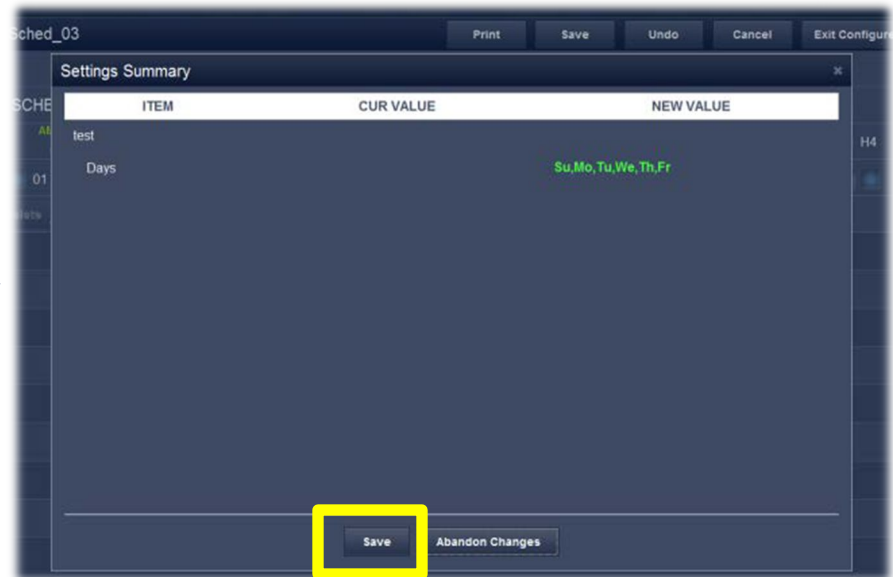
# Create a Schedule for Lighting Application

- Select **OK**.
- Select the **Days** the event will occur.
- Select **Save**.



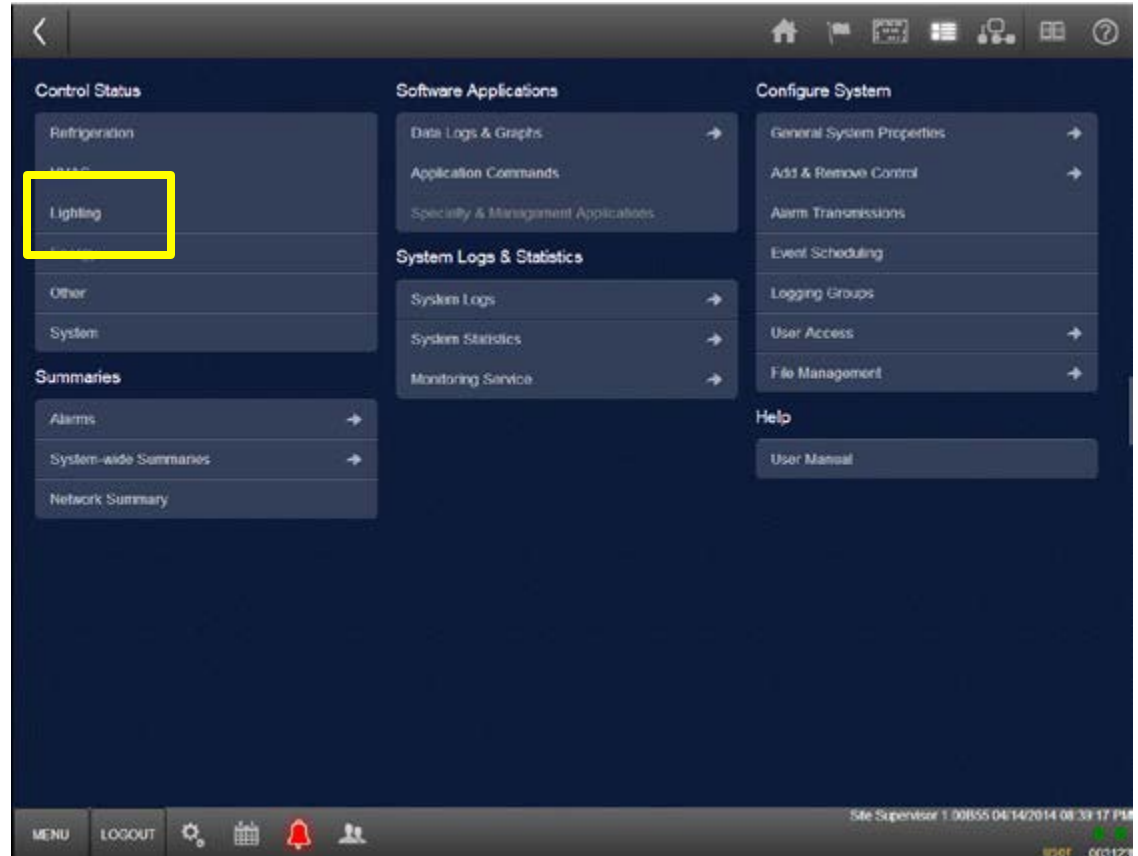
# Create a Schedule for Lighting Application

- Select **Save**.
- Repeat previous steps to create additional events. Max number per schedule = 15.
- Select **Exit Configure**.



# Associate Schedule to Lighting Application

- Return to the **Site Map**.
- Under Control Status, select **Lighting**.



# Associate Schedule to Lighting Application

- Select the Lighting Application.
- Select **Details**.

The screenshot displays a control panel interface for a lighting application. The main area shows a light fixture icon and the text "Lighting Application". The interface is divided into several sections:

- GENERAL**: Device Name: Inside Lights
- DIGITAL INPUTS**: Light Level In: NONE, Logic In: NONE, Schedule In: NONE, Solar In: NONE
- ANALOG INPUTS**: Light Cufon: NONE, Light Cutoff: NONE, Unocc Light Cufon: NONE, Unocc Light Cutoff: NONE
- OUTPUTS**: Lights Out: NONE, Proof Status: OK, Active Schedule: NONE, Active Sundown: NONE, Light Level: ON, Dimmer Percent: 0.00

Annotations on the screenshot indicate the steps:

- 1: A yellow circle highlights the "Inside Lights" card in the bottom navigation bar.
- 2: A yellow circle highlights the "Details" button in the top right corner of the main content area.

At the bottom of the screen, there is a status bar with "MENU", "LOGOUT", and system information: "Site Supervisor 1.00855 04/14/2014 08:38:45 PM" and "user 000109".

# Associate Schedule to Lighting Application

- On the **Inputs** tab:
  - Select **Configure**.
  - Select arrow next to **Schedule IN**.

The screenshot displays a mobile application interface for lighting control. The main screen shows a list of points with columns for POINT NAME, VALUE, UNIT, and POINTER. The 'SCHEDULE IN' row is selected, and its 'TARGET' and 'PROPERTY' fields are visible. A 'Configure' button is located at the top right of the list. The right-hand side of the screen shows a menu titled 'Inside Lights DETAILS' with options like Setup, Light Level, Min On/Off, Lights ON, Lights OFF, Alternate Lights ON, and Alternate Lights OFF. The 'Inputs' option is highlighted with a red box. At the bottom, there is a navigation bar with icons for MENU, LOGOUT, settings, calendar, notifications, and users. The status bar at the bottom right shows 'Site Supervisor 1.00B55 04/15/2014 03:29:29 AM' and 'user 000110'.

POINT NAME	VALUE	UNIT	POINTER
> LOGIC IN	NONE		
> USE ALT COMB	NONE		
✓ SCHEDULE IN	NONE		
TARGET		PROPERTY	
> BYPASS ON	NONE		
> SCHED TUCOS	00:00		
> SCHED TSCOS	00:00		
> BYPASS OFF	NONE		
> BYPASS DIMMER %	100.00	%	
> ALL LIGHTS ON	NONE		
> DEMAND SHED	NONE		
> SUNDOWN	NONE		
> SUNDOWN TSCOS	00:00		
> SUNDOWN TUCOS	00:00		

# Associate Schedule to Lighting Application

- From **Target** dropdown, choose the schedule you created.
- For **Property**, choose **Output**.

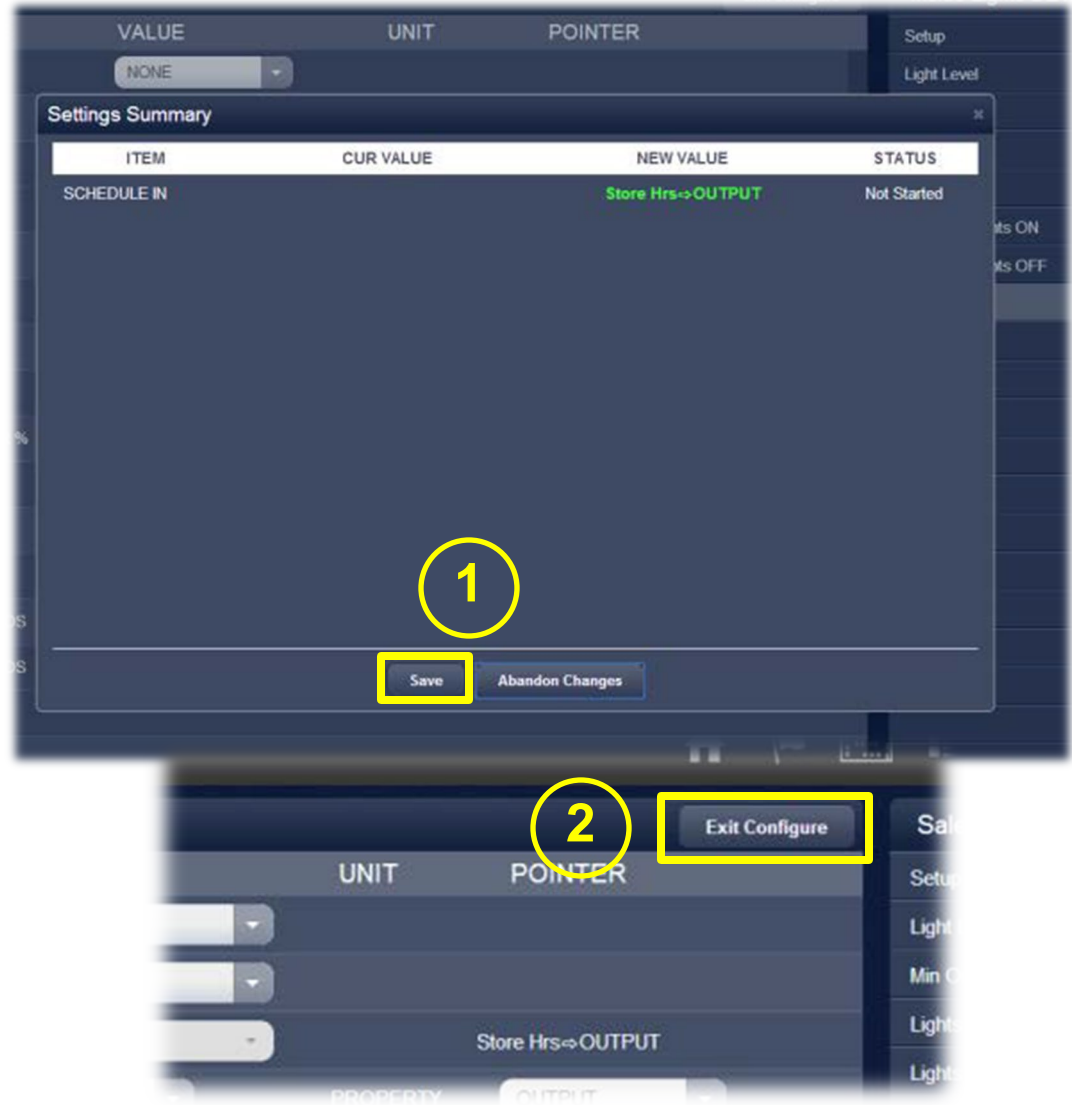
The screenshot displays a configuration screen for a lighting application. The main table lists various control points with their current values and units. The 'SCHEDULE IN' dropdown is currently set to 'NONE'. The 'TARGET' dropdown is set to 'Store Hrs' and the 'PROPERTY' dropdown is set to 'OUTPUT'. A yellow box highlights these two dropdowns, and a yellow arrow points from the 'TARGET' dropdown to the 'PROPERTY' dropdown.

POINT NAME	VALUE	UNIT	POINTER
> LOGIC IN	NONE		
> USE ALT COMB	NONE		
> SCHEDULE IN	NONE		
TARGET	Store Hrs		PROPERTY OUTPUT
> BYPASS ON	NONE		
> SCHED TUCOS	00:00		
> SCHED TSCOS	00:00		
> BYPASS OFF	NONE		
> BYPASS DIMMER %	100.00	%	
> ALL LIGHTS ON	NONE		
> DEMAND SHED	NONE		
> SUNDOWN	NONE		

Below the main table, a detailed view of the 'SCHEDULE IN' dropdown is shown, with 'NONE' selected. The 'TARGET' dropdown is set to 'Store Hrs' and the 'PROPERTY' dropdown is set to 'OUTPUT'. A yellow box highlights these two dropdowns.

# Associate Schedule to Lighting Application

- Click **Save**.
- Select **Exit Configure**.





# Create a Power Monitoring Application

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# ***Create a Power Monitoring Application***

- NEED  
INFORMATION



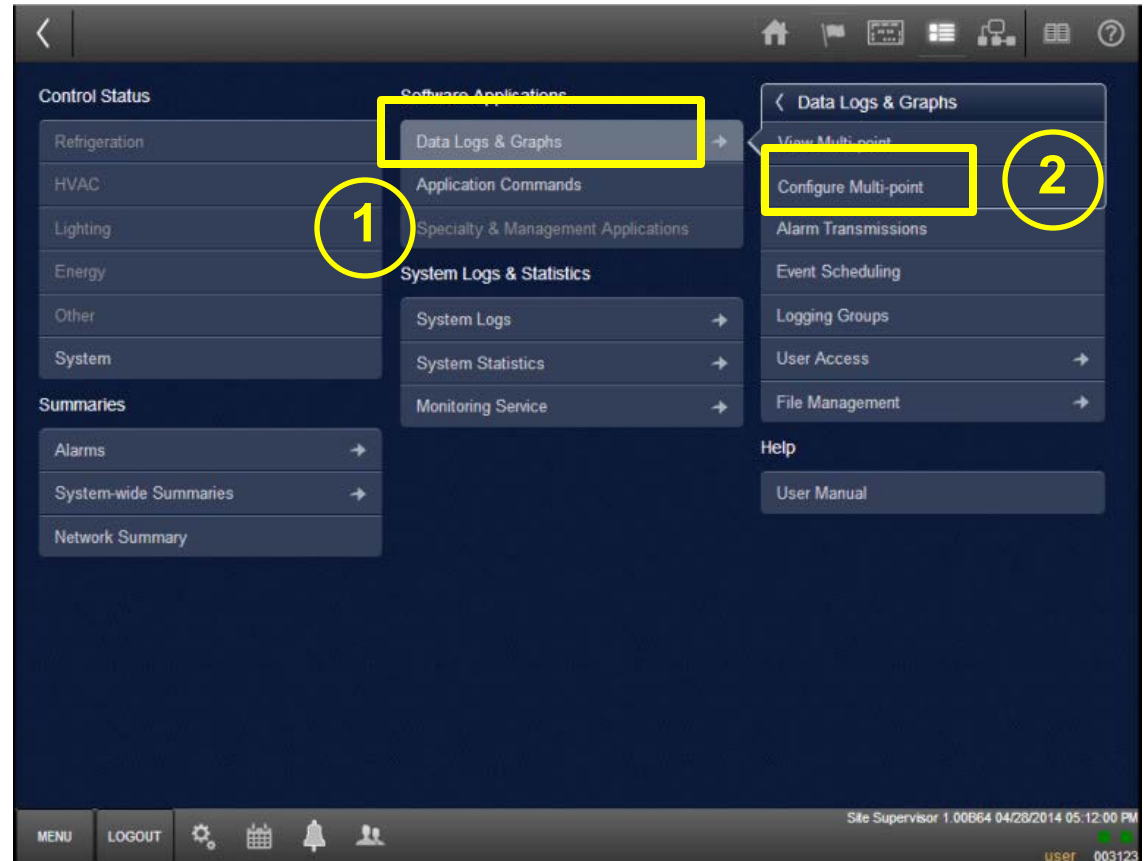
# Create a Multi-point Graph

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# Create a Multi-point Graph

- Login to Site Supervisor; go to Site Map.
- Under Software Applications, choose **Data Logs & Graphs**, then **Configure Multi-point**.



# Create a Multi-point Graph

- Select **Configure**.
- Click the **Add** button.



# Create a Multi-point Graph

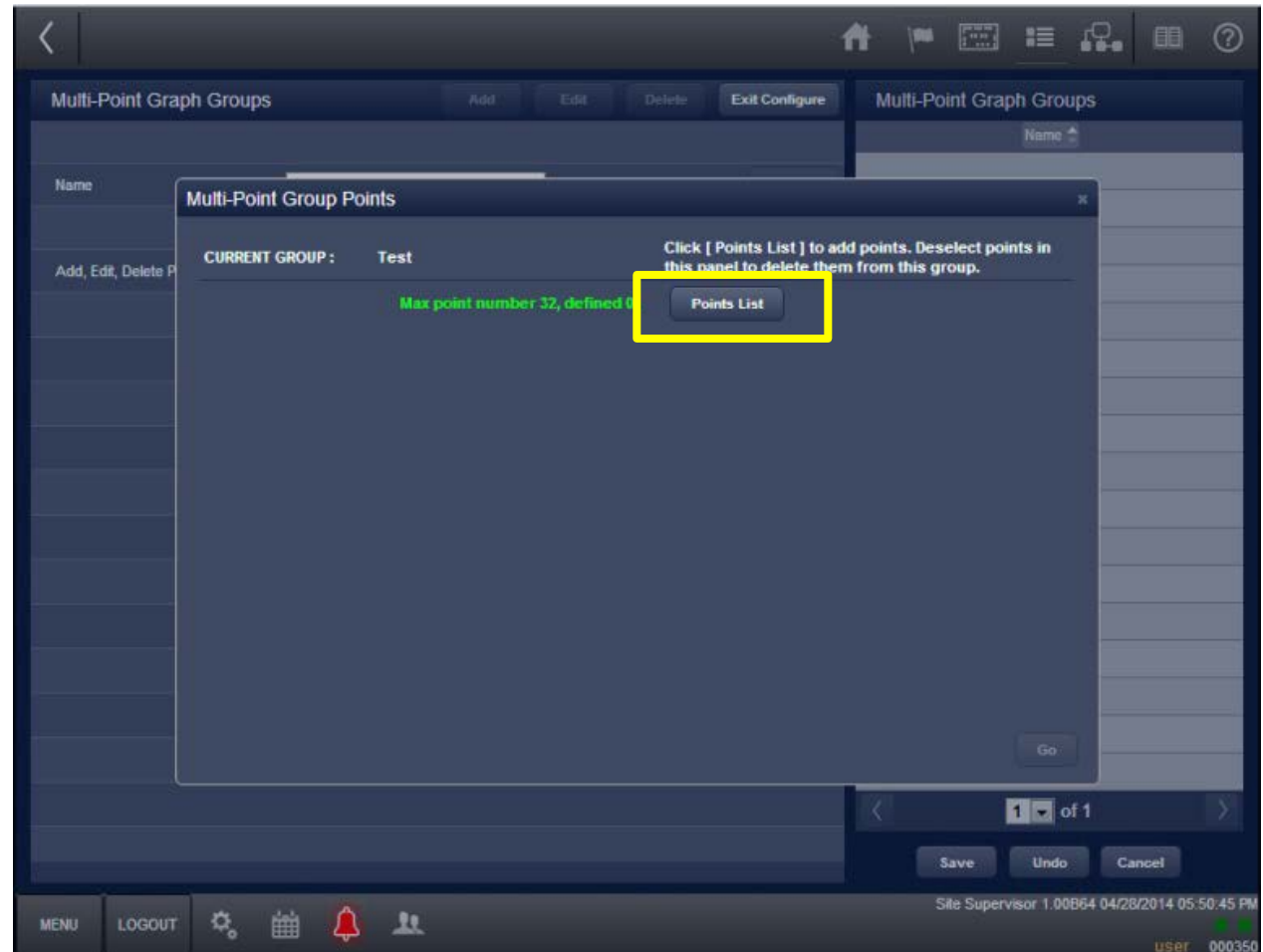
- Create a name for the graph group.
- Select **Manage**.



The screenshot shows a mobile application interface for creating a Multi-point Graph group. The title bar at the top is dark blue and contains a back arrow on the left and the text "Multi-Point Graph Groups" in the center. To the right of the title bar are two buttons: "Add" and "Edit". Below the title bar is a form with two rows. The first row has a label "Name" on the left and a text input field on the right containing the word "Test". The second row has a label "Add, Edit, Delete Points" on the left and a button labeled "Manage" on the right. Both the text input field and the "Manage" button are highlighted with a yellow rectangular border.

# Create a Multi-point Graph

- Select **Points List** to add points.



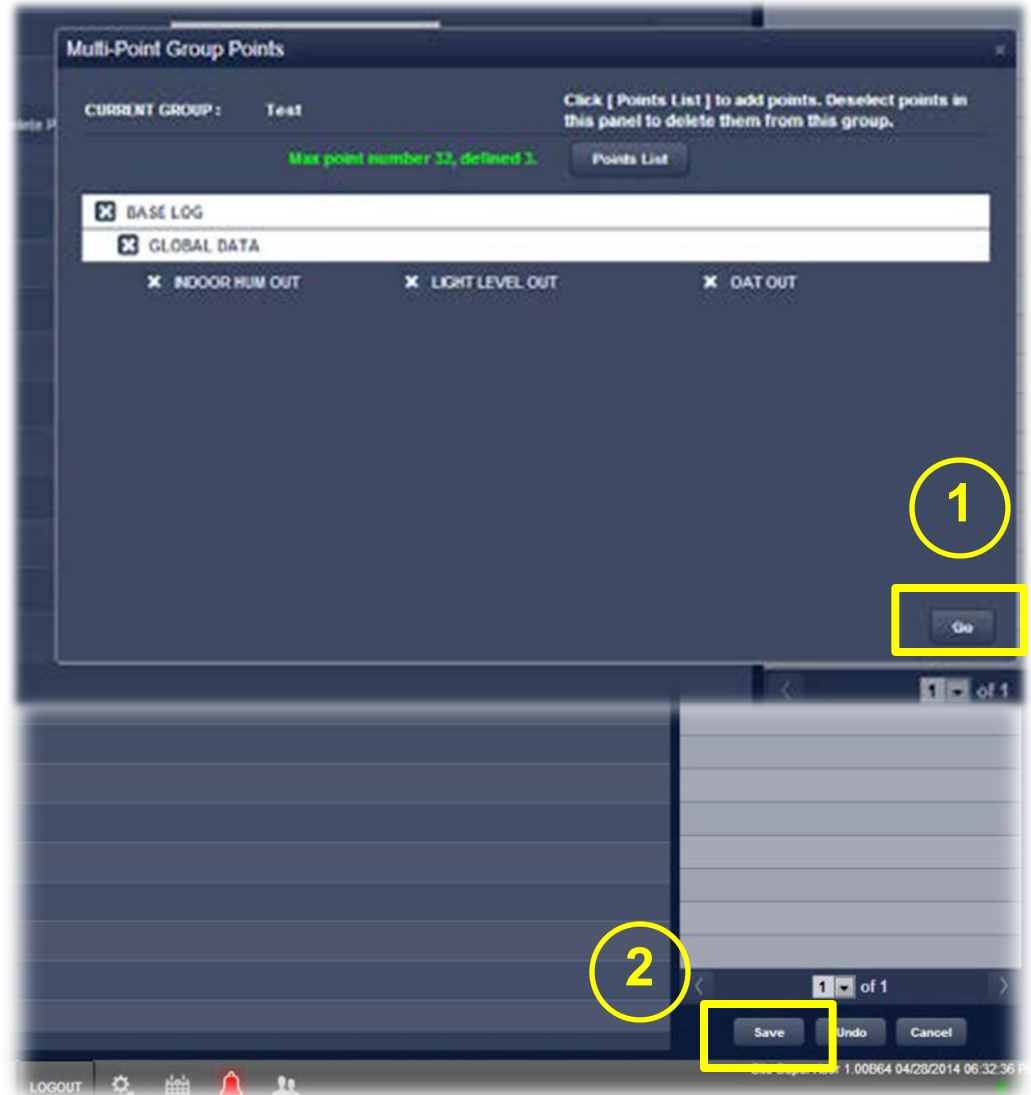
# Create a Multi-point Graph

- Select **Point Name(s)** from the list.
- Select **OK** when done.



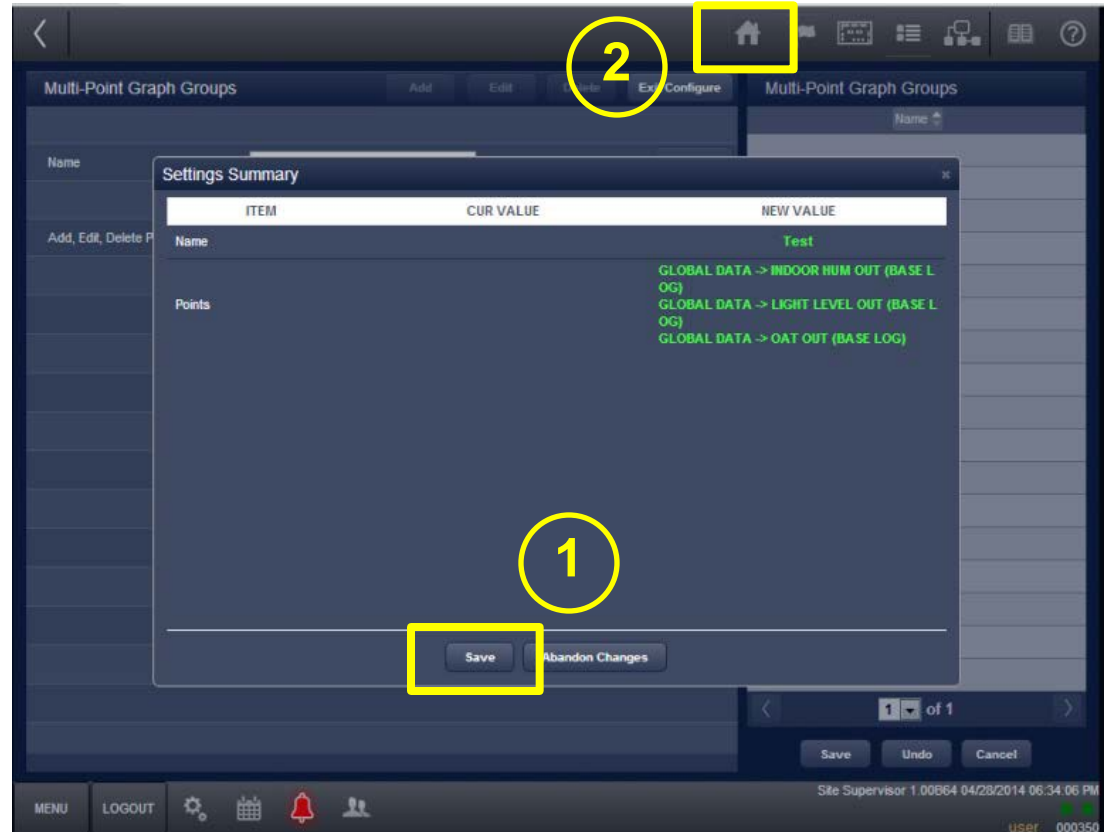
# Create a Multi-point Graph

- Select **Go**.
- Select **Save**.



# Create a Multi-point Graph

- Setting summary; select **Save** and exit to **Home**.





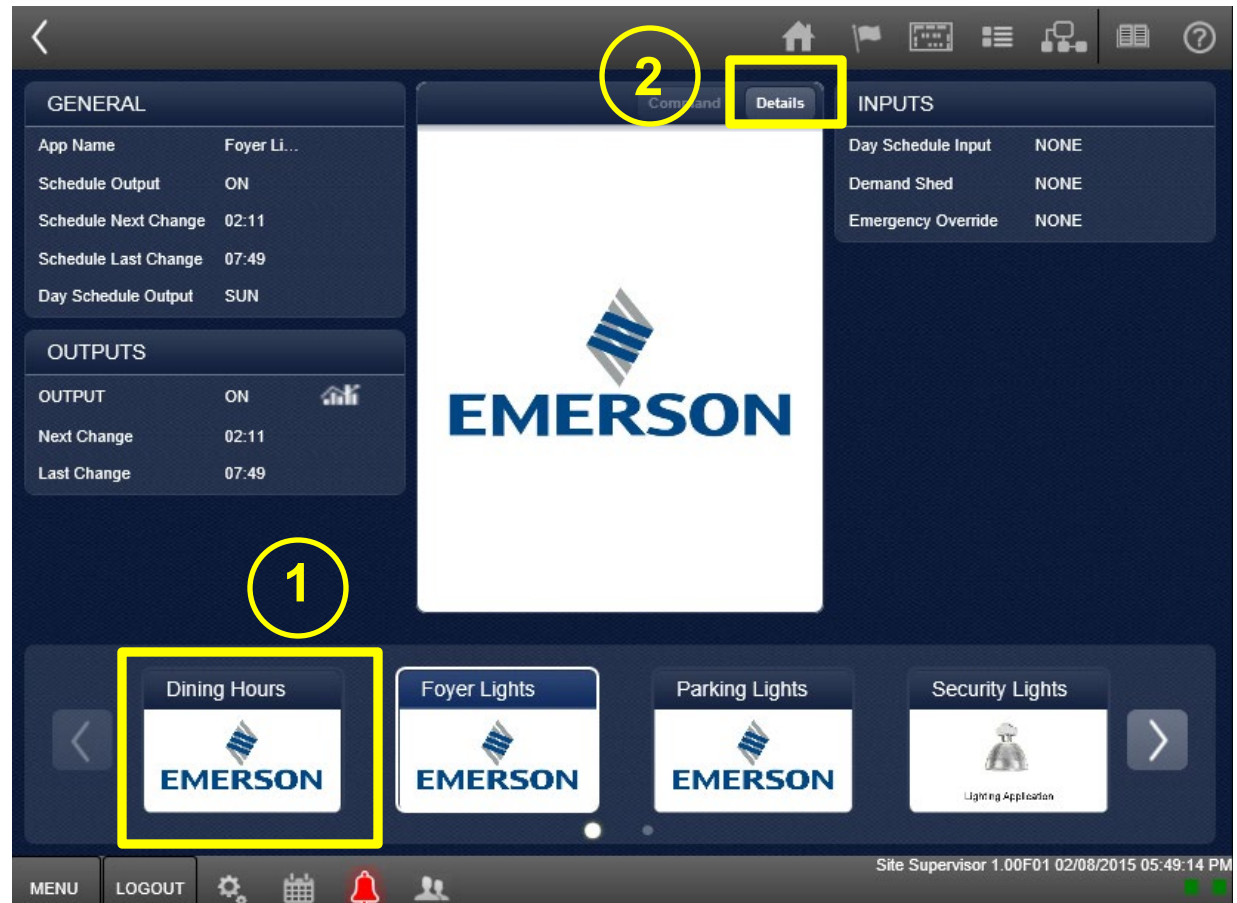
# Override Lights

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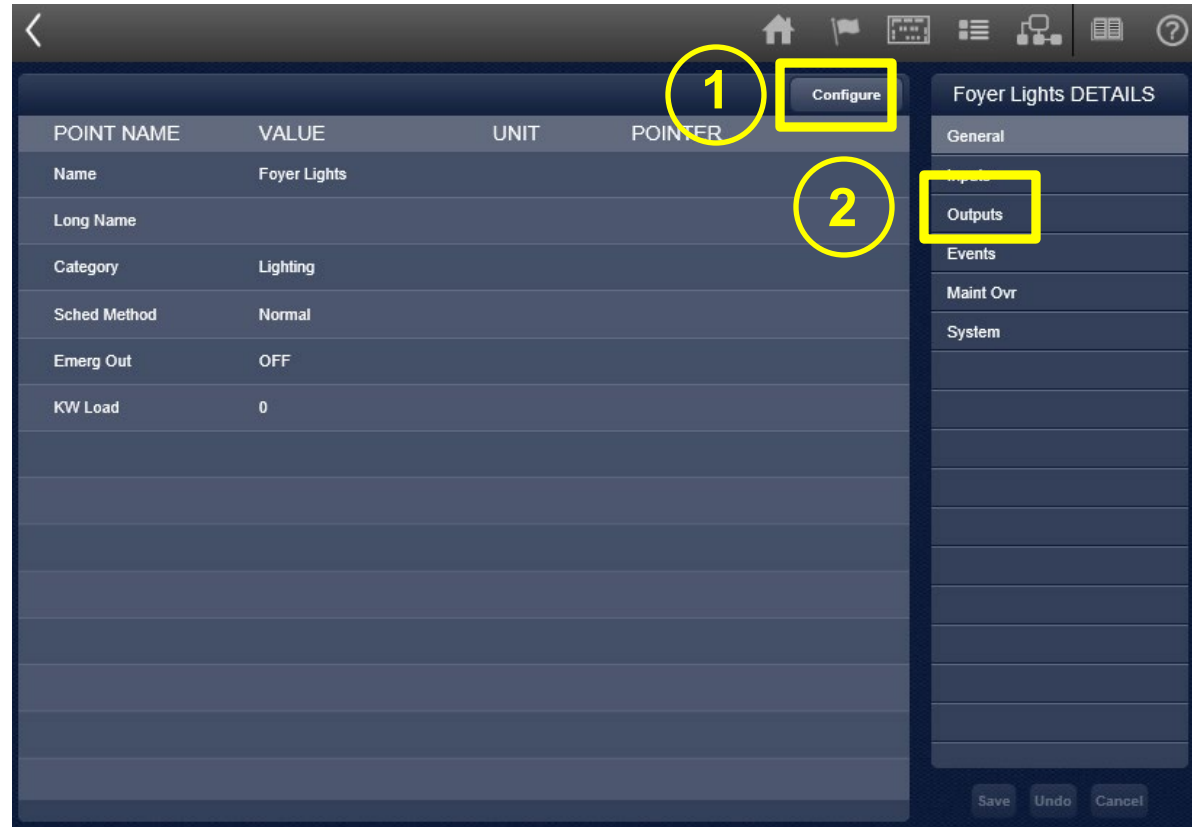
# Override Lights

- Go to the Control Status screen of the application you want to override.
- Click on **Details**.



# Override Lights

- Select **Configure**, then choose **Outputs** from application details panel on the right.



# Override Lights

- Click the arrow to the left of the name of the output that you want to override.



The screenshot shows a configuration interface with a table of output points. The table has four columns: POINT NAME, VALUE, UNIT, and POINTER. The 'SCHED OUTPUT' row is highlighted with a yellow box around its expansion arrow.

POINT NAME	VALUE	UNIT	POINTER
> OUTPUT	ON		
> SCHED OUTPUT	ON		
> DAY SCHED OUT	SUN		
> MAIN TUCOS	02:07		
> MAIN TSCOS	07:53		
> SCHED TUCOS	02:07		
> SCHED TSCOS	07:53		
> ALG STATUS	OK		

# Override Lights

- Override settings appear.
  - Set **In Override** to **ON**
  - Can also set an override time and enter override value

POINT NAME	VALUE	UNIT	POINTER
> OUTPUT	ON		
∨ SCHED OUTPUT	ON		
TARGET		PROPERTY	
Override			
In Override	OFF		
Override Time	00:00:00		
SCHED OUTPUT	ON		Scheduled ON/OFF state
<input type="button" value="Submit"/>			
> DAY SCHED OUT	SUN		
> MAIN TUCOS	02:07		
> MAIN TSCOS	07:53		

# Override Lights

- Select **Submit**.
- When pop-up screen appears with notification that override was successful, click **OK**.

TARGET PROPERTY

Override

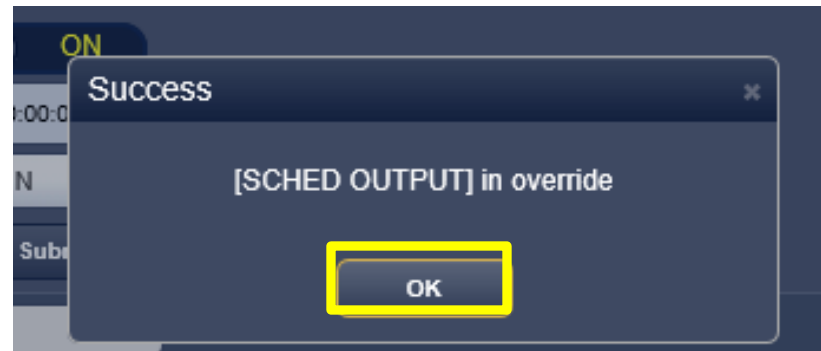
In Override  ON

Override Time 00:00:00

SCHED OUTPUT ON Scheduled ON/OFF state

Submit

DAY SCHED OUT SUN



# Questions?

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