L⅃ legrand®

Wattstopper®
Automation Series Scheduling Appliance

Operations Guide

Catalog Number • Numéro de Catalogue • Número de Catálogo: LIA-WEB

Country of Origin: Made in China • Pays d'origine: Fabriqué en Chine • País de origen: Hecho en China

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INTRODUCTION

This document covers the setup and operation instructions for the LIA-WEB Automation Series Scheduling Appliance for Wattstopper Lighting Control Panels. This document is for personnel who are involved in control system startup and day-to-day operations.

This document does not cover hardware installation. For information about this topic, please refer to the LIA-WEB Installation Instructions.
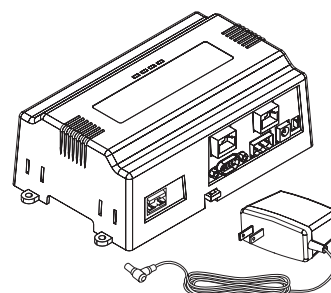
DESCRIPTION

The LIA-WEB Automation Series Scheduling Appliance is a multi-function controller designed for use with Wattstopper Lighting Integrator series lighting control panels that are equipped with the Automation Card option. The LIA-WEB provides lighting control automation functions and acts as the primary user interface for configuring all devices connected to the Lighting Integrator network's LON-based global dataline.

The user interacts with the lighting control panels and other devices via the LIA-WEB web browser interface provided through a variety of TCP/IP connectivity options. The LIA-WEB web interface is optimized for Windows XP or Windows 7, and either Internet Explorer version 9 (or newer) or Google Chrome version 36 (or newer).

Once the LIA-WEB has been properly configured for interoperation with the lighting control panels, all relays and automation channels are automatically exposed as BACnet objects. BACnet IP (Annex J) connectivity is provided through the same TCP/IP Ethernet connection used for normal operation of the lighting control panels.

Before attempting to commission and use the LIA-WEB, you should have already installed it per the procedure outlined in the Installation Instructions. Also, all of the lighting panels, switches, and other devices that may be part of the system should already be installed and connected to either the global dataline or local datalines per the documentation supplied with these devices.

IMPORTANT
Please read these instructions completely prior to beginning the setup process.

To successfully commission, set up, and use the LIA-WEB, it is necessary to have an understanding of the Lighting Integrator system and the components that might be included in the system as it is installed. The LIA-WEB and the lighting control panels are connected on the system global dataline. When HDLS switches are included in the system, these are connected to the local dataline. The photocell module and the universal switch module, if used, are connected within one of the lighting control panels. All the panels, switches, and modules are ultimately connected on a common LonWorks bus that provides the communication path to the LIA-WEB.

CONVENTIONS

This document uses the following warning and caution conventions:

Cautions

Cautions remind the reader to be careful. They alert readers to situations where there is a chance that they might perform an action that cannot be undone, might get unexpected results, or might lose data. Cautions contain an explanation of why the action is potentially problematic.

Warnings

Warnings alert the reader to proceed with extreme care. They alert readers to situations where there is a chance that they might do something that can result in personal injury or equipment damage. Warnings contain an explanation of why the action is potentially dangerous.

Safety Warnings

The following items are warnings of a general nature relating to the installation and startup of the LIA-WEB. Be sure to heed these warnings to prevent personal injury or equipment damage.

- Disconnect power before installation or servicing to prevent electrical shock or equipment damage.
- Make all connections in accordance with national and local electrical codes.
  Use copper conductors only.
- To reduce the risk of fire or electrical shock, install in a controlled environment that is relatively free of contaminants.
- This device is only intended for use as a monitoring and control device. To prevent data loss or equipment damage, do not use it for any other purpose.

Static Discharge Cautions

Static charges produce voltages high enough to damage electronic components. The microprocessors and associated circuitry within an LIA-WEB are sensitive to static discharge. Follow these precautions when installing, servicing, or operating the system:

- Work in a static-free area.
- Discharge any static electricity you may have accumulated.
  Discharge static electricity by touching a securely grounded object.
- Do not handle the printed circuit board (PCB) without proper protection against static discharge.
  Use a wrist strap when handling PCBs. The wrist strap clamp must be secured to earth ground.

CONNECTIVITY START-UP

The LIA-WEB Installation Instructions provide all the information necessary to install the hardware and establish initial connections using a PC based web browser. For details about the topics listed below, consult the Installation Instructions:

1. Physical Installation
2. Connections
3. Power Up and Initial Checkout
4. Connect to the LIA-WEB from a PC

Commissioning

There are three steps to commissioning and setting up the LIA-WEB system:

1. Set the site location, time, and date information.
2. Discover and name the panels and other devices that are connected to the dataline to include them in the LIA-WEB database.
3. Enter the user program information into the LIA-WEB.

Log in to the LIA-WEB

To log in:

1. Open a browser on the PC.
2. In the browser's address field, enter the LIA-WEB's IP Address or Site Name assigned by the network administrator.
3. Press **Enter**.

   At the login screen, all entries are case-sensitive. The system administrator or supervisor assigns User Names and Passwords for the LIA-WEB system. Following is the default login data; the default may no longer be available, depending on system administration settings.

   User Name: Supervisor

   Password: Wattstopper1

   NOTE: If logging in as an Administrator, the password is: W@ttstopp3r

   The **Home** screen opens as shown in the following example.

4. Select the **Setup** option from the navigation bar on the Home screen.

   Setup options allow changes to the site name, location, time zones, and other fundamental features of the LIA-WEB system. From the **Setup** screen, you can also discover the panels and switches in your network.
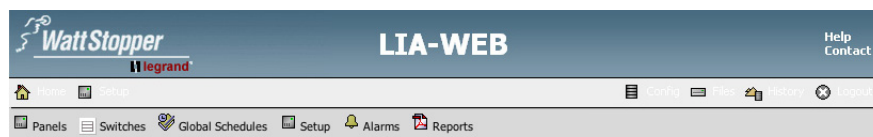
September 29, 2006

4:05 PM

Sunrise:

6:52 AM

Sunset:

6:44 PM

Alarm Summary			
	Total Alarms	**In Alarm**	**Unacknowledged**
Primary Devices:	0	0	0
Other Devices:	0	0	0

Supervisor Level Home Screen

SETUP OPTIONS

Main Setup Page

The first step toward setting up the LIA-WEB for the lighting control system is to discover any accessory modules, set location information, and then give the system a name.

Many lighting control functions depend on whether or not there is daylight available. Some systems include a photocell module, some systems use the astronomical function of the lighting control panel, and some systems use both to determine daylight and dark periods.

Setup Main Screen

CAUTION: It is necessary to power cycle the LIA-WEB in order for changes to the Location information on the Setup main page and Time Zone information on the Time and Date page to take effect. Power cycle the LIA-WEB after completing changes to these settings. The LIA-WEB has an internal UPS battery backup. After turning off the supply circuit breaker or pulling the line cord plug, wait until the red LED on the board stops flashing before restoring power. This takes approximately one minute.

Photocell

If the system uses the HPCP8SS Photocontrol Package for exterior lighting control, it must be discovered by the LIA-WEB.

1. To accomplish this, click **Discover Devices**.
   After a short delay, a box opens indicating modules found on the LON dataline.

Add New Modules

2. Click **Add New Modules** to add the Photocell Module to the database.
   NOTE: If the system includes an HTEL8SS Telephone module, it is also added with the Photocell Module.

State	Subnet	Node	Type	Program Id	Neuron Id	Delete
Config Online	1	7	Photocell	50 43 45 4c 00 00 00	00 a0 15 16 10 00	☐

Modules Found

After **Photocell Discovery**, you can use the **Dark Thresholds** screen to set the light level at which the panel triggers a "dark" condition for each channel.

Dark Thresholds

	A	B	C	D	E	F	G	H
Threshold (footcandles)	2	22	15	55	20	33	77	55
State	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark
Photocell Light Level	0 (footcandles)							

Location

Setting up the correct geographic location is important to using the astronomical function. Based on the location information, the LIA-WEB calculates sunrise and sunset times.

You can enter the panel's location using one of two methods. You can select the city closest to the panel from a list of states, provinces, countries, and cities, or you can manually enter the global coordinates.

To enter a location by city:

1. Select **State** to select the state, country or province.
   States of the USA are listed first in alphabetical order followed by countries, then Canadian provinces and territories.
2. After selecting the correct state, country, or province, select the **City** closest to the panel location.
   The geographic coordinates and GMT Offset fill in automatically based on the State/City you've selected.

To enter a location manually:

1. From the **State** drop-down, select *Manual Entry*.
2. Enter the panel's longitude and latitude coordinates in the corresponding fields.
3. Enter the number of hours difference between the panel location and GMT.

Banner Title

The Banner Title is the text that appears at the top of each screen of the **Automation Appliance** web pages.

1. Enter the project name or other data to identify the system.
2. When the location and banner data has been entered, click **Save**.

Time and Date

Setting up the correct date and time information is important for using schedule functions. Once the date, time, and time zone are set, the LIA-WEB automatically compensates for daylight savings time changes in time zones where the change applies.

To set the time and date for the site, from the **Main Setup Page:**

1. Click **Time and Date** on the navigation bar.
2. Fill in the appropriate information when the page opens.
3. When complete, click **Save** at the bottom of the page to save this information in the database.

CAUTION: When you finish making changes to the Time Zone or Location information on the Setup main page, click **Save** and then power cycle the LIA-WEB. It is necessary to power cycle the LIA-WEB in order for the Time Zone and Location information to take effect.
The LIA-WEB has an internal UPS battery backup. After turning off the supply circuit breaker or pulling the line cord plug, it is necessary to wait until the red LED on the board stops flashing before restoring power. This takes approximately one minute.

🏠 Home ▦ Setup 🕐 Time and Date

Time, Date, and Time Zone Configuration

System Time   27 ▪ - Jun ▪ - 2005 ▪ 06 ▪ : 46 ▪ PM ▪

Time Zone   CST (−6/−5) ▪

(Refresh) (Save)

Home –> Setup –> Time and Date

Sunrise/Sunset Offsets

If you plan to use the astronomic clock feature to provide dark and light information to control lighting, you may wish to set an amount of time before or after sunset that you want the lights to come on and/or you may wish to set an amount of time before or after sunrise that you want the lights to turn off. To do so:

1. From the **Main Setup Page** click **Sunrise/Sunset Time Offsets** on the navigation bar.
2. Enter the times in the corresponding boxes.
3. Use the drop-down menu to select time AFTER (+) or BEFORE (-) the calculated sunrise or sunset time.

   NOTE: There is a **two hour limit** to the offset time, even though the box allows entry of larger numbers.

4. When complete, click **Save** at the bottom of the page.

   With the schedule shown in the following example:

   - **Channel A** will use a sunrise time that is 2 hours after (+) the actual sunrise and a sunset time that is the same as the actual sunset.
   - **Channel D** will use a sunrise time that is 1 hour and 30 minutes before (-) the actual sunrise and 30 minutes after (+) the actual sunset.
   - **Channel H** will use a sunrise time that is 2 hours after (+) the actual sunrise and a sunset time that is the same as the actual sunset.

Home –> Setup –> Sunrise/Sunset Offsets

Discover Panels

The lighting control panels must be discovered and commissioned through the LIA-WEB. Use the **Discover Panels** screen to add panels to the **Automation Appliance** network. The panel number is physically set by adjusting the **PANEL NUMBER** dials on the Automation Card as described in the installation instructions provided with the panel.

1. To discover panels, from the from the **Main Setup Page** select **Discover Panels**.

   When the page opens, you see two information boxes. The lower box contains information about panels that have already been commissioned. The upper box shows panels that have been discovered but not yet commissioned.

Home –> Setup –> Discover Panels

2. Click **Discover Devices** to display the available panels in the upper box.

   NOTE: If other devices have already been discovered, it is not necessary to click **Discover Devices** – the panel list is already visible in the lower box.

CAUTION: If all panels are not discovered, there is likely a communication problem present with the dataline. Re-check that the wire type, connections, and termination are made according to the Lighting Integrator Installation Instructions. Also be sure that the panel numbers set in the Automation Card are different for each panel. If dataline faults are not corrected at this time, it is likely there will be operational problems with the system.

New Lighting Panels

Panel Number	Name	Neuron Id
2		00 c0 41 62 85 00
5		00 c0 41 54 12 00
1		00 c0 69 78 26 00
3		00 c0 62 88 12 00
4		00 c0 70 83 81 00

[Add New Panels] [Clear New Device Table]

No Existing Panels

[Refresh]

3. Enter a meaningful name for each panel that helps to identify its location.

   Hint: The list of panels displays in alphabetical order, based on the name you enter. If you want the list to appear in a specific order, use a naming convention that forces the order you want.

4. Click **Add New Panels**.

   The following message displays:

   This operation may take several minutes. This message disappears when complete.

   After completing the panel discovery and commissioning process, the list of panels displays in the lower box on the screen. The LIA-WEB lists the panels alphabetically according to **Name**, and displays them as shown below.

No New Panels Found

[Discover Devices]

Lighting Control Panels

Panel Number	Name	Neuron Id	Delete
1	First Floor	00 c0 41 63 91 00	☐
4	Second Floor	00 c0 62 88 12 00	☐

[Delete]

[Refresh]

5. You may now choose one of the following options:
   - Click one of the panel number buttons to **configure** a panel.
   - Click **Setup** in the navigation bar to return to the Setup page.
   - Click **Home** to return to the Home page screen.
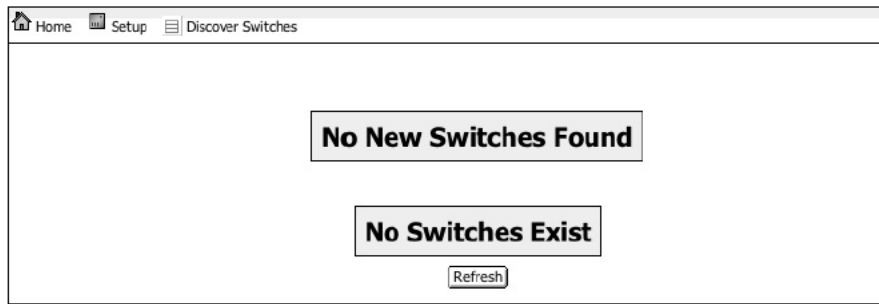
Discover Switches

Use the **Discover Switches** screen to add switches to the Automation Appliance network. The process of discovering switches is similar to discovering panels, with one major distinction: HDLS switches do not have hardware addresses to distinguish individual switches among like switch types. Therefore, when commissioning a group of like switch types, it is necessary to keep track of the exact location of the switches as they are discovered and commissioned. Discovering and commissioning switches is best done using two people, but this is not a requirement.

NOTE: If you have previously discovered panels or other devices, a list of switches is already displayed. If the list contains more than one of each type switch, it is necessary to click **Clear New Device Table** and discover them one by one, or a few at a time.

1. To discover switches, from the **Main Setup Page** select **Discover Switches**.
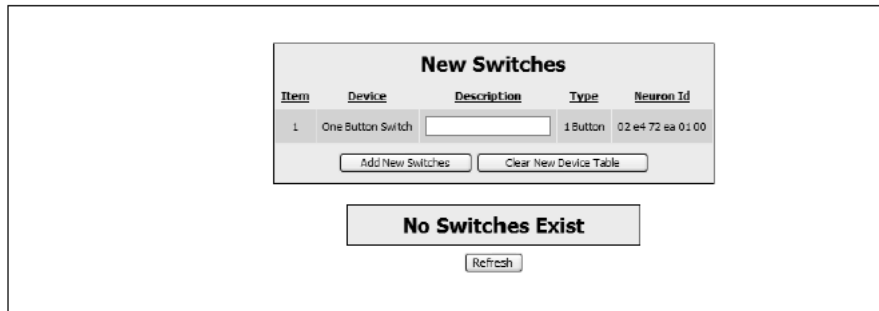
   The screen displays the switches that are already stored in the LIA-WEB database.
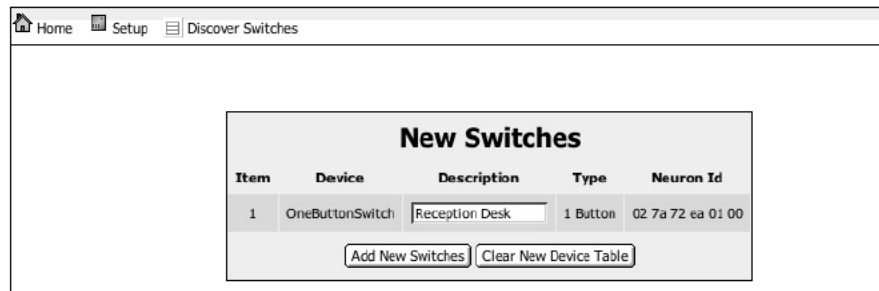
2. Walk (or send your assistant) to the switch you want to add.
3. Press the **Service Pin** on the new switch to indicate its identity on the bus.
4. Go back to the PC and click **Refresh** on the **Discover Switches** page.
   The new switch should display in the upper window.

5. Enter a meaningful name for the switch that can help to identify its location.

6. Repeat steps 2 to 5 for all the switches you want to add.
   Hint: When working alone, you may choose to press several service pins before returning to the PC. Be sure to remember the order in which you press the pins, as this is the only way to distinguish between the switches. If any switch does not display in the upper box, it is necessary to click **Clear New Device Table** and repeat the sequence.
7. Click **Add New Switches**.
   The following message displays:
   This operation may take several minutes. This message disappears when complete.
8. After completing the switch discovery process, the list of switches displays in the lower box on the screen.
   The LIA-WEB displays the switches according to their "Item" number, which is the order in which the service buttons were pressed.

No New Switches Found

Discover Devices

Existing Switches

Item	Device	Description	Type	Neuron Id	Delete
1	One Button Switch	Reception Desk	1 Button	02 e4 72 ea 01 00	☐
2	One Button Switch	First Floor Rear	1 Button	02 fd c2 bc 01 00	☐
3	One Button Switch	Second Floor Front	1 Button	02 ee 72 ea 01 00	☐
4	One Button Switch	Second Floor Rear	1 Button	02 79 72 ea 01 00	☐

Delete

Refresh

9. Choose one of the following options:
   - Click one of the switch number buttons to configure the buttons on the switch.
   - Click **Setup** in the navigation bar to return to the Setup page.
   - Click **Home** to return to the Home page screen.

User Management

User Management allows you to view, edit, delete, and add new users to the LIA-WEB system. User Management allows you to assign access levels for users of the system. You can assign each user one of four levels of access to the system as outlined in the table below.

To access the User Management screen, you must be logged on to the system at the **Supervisor** role level.

🏠 Home   🖥 Setup   👤 User Management

Database

	Name	Role
☐	👤 Supervisor	Supervisor
☐	👤 Operator	Operator
☐	👤 User	User
☐	👤 ViewOnly	ViewOnly

New   Edit   Delete

Home –> Setup –> User Management

From the **Main Setup Page** select **User Management**.
   - To add a user, click **New**.
   - To edit an existing user, select the check box next to the user name, then click **Edit**.
   - To delete an existing user, select the check box next to the user name, then click **Delete**.

There are 4 role levels for users. Each role can perform a certain set of functions. The Role Matrix below shows the functions available to each role.
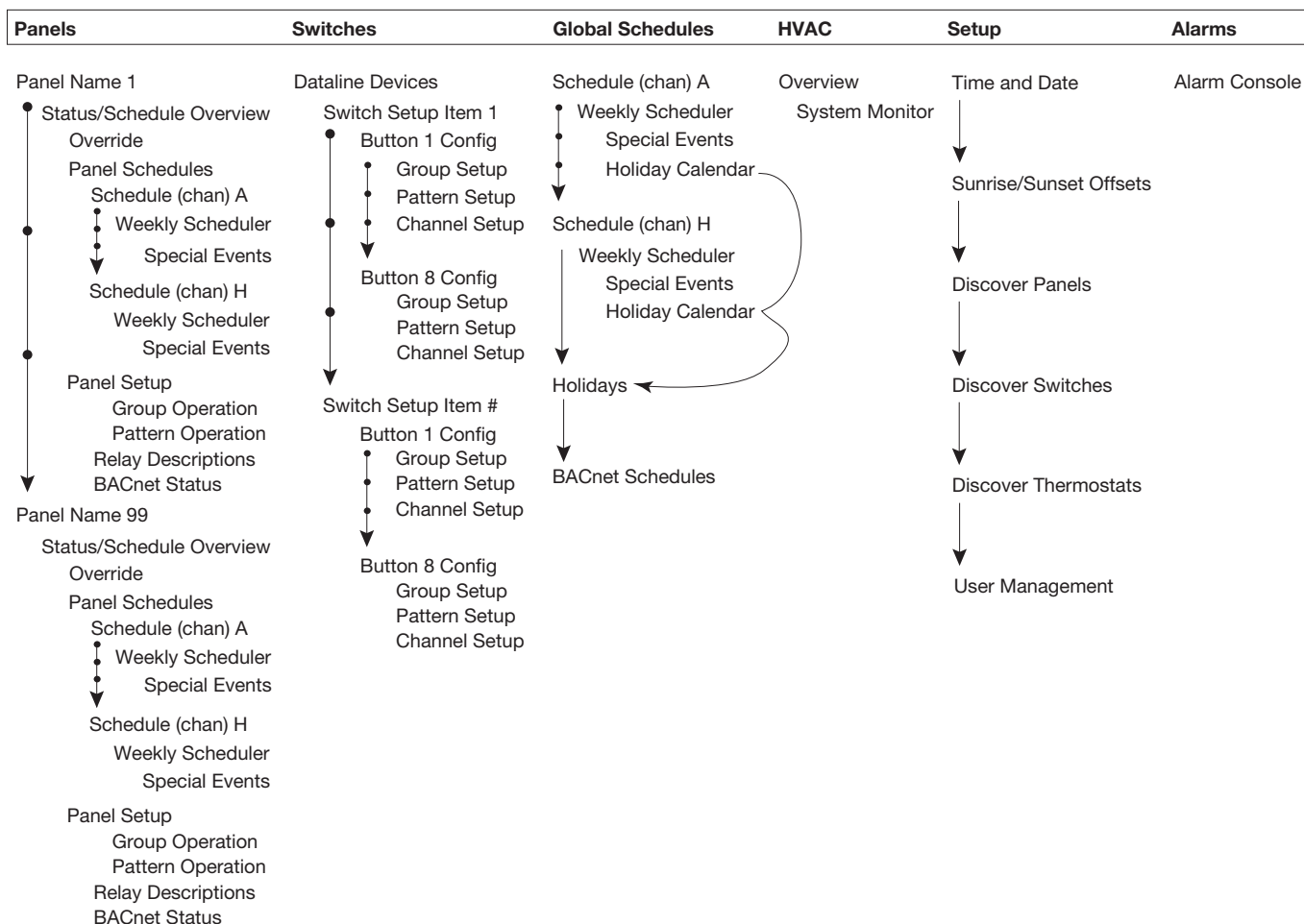
Role Levels	Available Functions						
Supervisor	Panels	Switches	Global	Schedules	HVAC	Setup	Alarms
Operator	Panels	Switches	Global	Schedules	HVAC	Setup (No User Mgmt)	Alarms
User	Panels	HVAC	Global	Schedules			Alarms
View Only (No editing)	Panels	HVAC	Global	Schedules			Alarms

NAVIGATING THE APPLICATION

When navigating through the Automation Appliance user interface, it is helpful to understand that you are working in a web browser environment. The information displayed on the screens is not resident in the PC. Rather, it is maintained within the logic of the LIA-WEB and is "served" up as it is requested by your web browser. Dependant upon the amount of data to be displayed on the screen, there are slight delays in transitioning between screens. As with browsing on the internet, these delays are normal.

After logging into the system, the Home page opens. This is the highest level within the navigation tree. Lower level screens that can be accessed from the Home page are shown as links on the lower navigation bar. Note that from any screen you can always return to the Home page by clicking **Home** at the left end of the navigation bar.

Many screens offer links to additional screens. As with the Home page, these are offered on the lower navigation bar. As you navigate to subsequently lower level screens, the current and all previous viewed screens are listed on the top navigation bar.

Login → Home					
Panels	**Switches**	**Global Schedules**	**HVAC**	**Setup**	**Alarms**

Panel Name 1
- Status/Schedule Overview
  Override
  Panel Schedules
    Schedule (chan) A
      Weekly Scheduler
        Special Events
    Schedule (chan) H
      Weekly Scheduler
        Special Events
  Panel Setup
    Group Operation
    Pattern Operation
    Relay Descriptions
    BACnet Status

Panel Name 99
  Status/Schedule Overview
  Override
  Panel Schedules
    Schedule (chan) A
      Weekly Scheduler
        Special Events
    Schedule (chan) H
      Weekly Scheduler
        Special Events

  Panel Setup
    Group Operation
    Pattern Operation
  Relay Descriptions
  BACnet Status

Dataline Devices
  Switch Setup Item 1
    Button 1 Config
      Group Setup
      Pattern Setup
      Channel Setup

    Button 8 Config
      Group Setup
      Pattern Setup
      Channel Setup

  Switch Setup Item #
    Button 1 Config
      Group Setup
      Pattern Setup
      Channel Setup

    Button 8 Config
      Group Setup
      Pattern Setup
      Channel Setup

Schedule (chan) A
  Weekly Scheduler
    Special Events
    Holiday Calendar

Schedule (chan) H
  Weekly Scheduler
    Special Events
    Holiday Calendar

Holidays

BACnet Schedules

Overview
  System Monitor

Time and Date

Sunrise/Sunset Offsets

Discover Panels

Discover Switches

Discover Thermostats

User Management

Alarm Console

Menu Structure Overview

Programming Panels

1. From the Home page, click **Panels**.
2. Click the name of the panel that you want to program.
3. When the page opens, click **Panel Setup** in the navigation bar.

Setting Up Panels in Groups or Patterns

Relays must be assigned to a channel in order to set up a schedule for them. You can schedule the relays by **Groups** or **Patterns**.

Group Setup

Group – A group is a set of relays that follow a common automation schedule and share a normal/after hours status and group letter A - H.

Panel: QC Station - Channel A Group Operation Setup

| Chan A | Chan B | Chan C | Chan D | Chan E | Chan F | Chan G | Chan H |

Pattern Setup

Panel Name: QC Station

Panel Neuron ID: 00 c0 41 54 04 00

Panel Number: 1
Panel Hardware Version: Lighting Panel - 24 Relays
Panel Firmware Version: 18
Panel Communication Status: {ok}
Panel Neuron Version: 18

Channel Description: Channel A
Select Channel Scenario: Schedule On / Schedule Off ▼
Delay Time (Min): 0   [0 - 240]
Blink: Disable ▼
Select Schedule Source: Global Schedule ▼
Darkness Source: Astronomical Clock

On ▼ 01:	On ▼ 02:	On ▼ 03:
On ▼ 04:	On ▼ 05:	On ▼ 06:
- ▼ 07:	- ▼ 08:	- ▼ 09:
- ▼ 10:	- ▼ 11:	- ▼ 12:
- ▼ 13:	- ▼ 14:	- ▼ 15:
- ▼ 16:	- ▼ 17:	- ▼ 18:

Home –> Panels –> "Panel Name" –> Panel Setup –> Group Setup

In the screen example above, you are looking at Channel A. The Relay Descriptions have not yet been entered for relays 01 to 06, but they have been assigned to Channel A, as indicated by "On" in the drop-down menu next to the channel number.

Click a channel button to program another channel. For the following example, Chan B was clicked. Notice that relays 09 to 13 are "On" indicating that they are assigned to Channel B, and they each have a description. Descriptions are programmed in the **Relay Descriptions** menu.

🏠 Home   📋 Panels   Building "E" - LI48   ⚙ Panel Setup

📄 Relay Descriptions   BACnet Status

Panel: Building "E" - LI48 - Channel B Group Operation Setup

| Chan A | Chan B | Chan C | Chan D | Chan E | Chan F | Chan G | Chan H |

Pattern Setup

Panel Name: Building "E" – LI48

Panel Neuron ID: 00 c0 41 54 12 00

Panel Number: 5
Panel Hardware Version: Lighting Panel - 48 Relays
Panel Firmware Version: 14
Panel Communication Status: {ok}
Panel Neuron Version: 14

Channel Description: MJ Channel B
Select Channel Scenario: Schedule On / Schedule Off ▼
Delay Time (Min): 0   [0.0 - 240.0]
Blink: Disable ▼
Select Schedule Source: Panel Schedule ▼
Select Darkness Source: Astronomical Clock ▼
Current Darkness Source: Astronomical clock

- ▼ 01:	- ▼ 02:	- ▼ 03:
- ▼ 04:	- ▼ 05:	- ▼ 06:
- ▼ 07:	- ▼ 08:	On ▼ 09: MJ B 9
On ▼ 10: MJ B 10	On ▼ 11: MJ B 11	On ▼ 12: MJ B 12
On ▼ 13: MJ B 13	- ▼ 14:	- ▼ 15:

Pattern Setup

The default mode is for Group setup as shown in the previous screen example. If you wish to set up a pattern, click **Pattern Setup**. A pattern is a set of relays set to specific set of mixed on and off states. For example, 4 relays may be set to 1=ON, 2=OFF, 3=OFF, 4=ON, and so forth.

For the following example, Chan C was clicked, then the **Pattern Setup** button was clicked. Notice that relays 14 and 15 are "On" and 16 to 18 are "Off" indicating that they are assigned to the Channel C Pattern Operation. A description has already been entered on the **Relay Descriptions** page.

Panel: Building "E" - LI48 - Channel C Pattern Operation Setup

Chan A | Chan B | Chan C | Chan D | Chan E | Chan F | Chan G | Chan H

Group Setup

Panel Name: Building "E" - LI48
Panel Neuron ID: 00 c0 41 54 12 00
Panel Number: 5
Panel Hardware Version: Lighting Panel - 48 Relays
Panel Firmware Version: 14
Panel Communication Status: {ok}
Panel Neuron Version: 14

Channel Description: MJ Pattern Channel C
Select Channel Scenario: Dark On / Light Off
Delay Time (Min): 0 [0.0 - 240.0]
Blink: Disable
Select Schedule Source: Global Schedule
Select Darkness Source: Astronomical Clock
Current Darkness Source: Astronomical clock

- 01:	- 02:	- 03:
- 04:	- 05:	- 06:
- 07:	- 08:	- 09: MJ B 9
- 10: MJ B 10	- 11: MJ B 11	- 12: MJ B 12
- 13: MJ B 13	On 14: MJ C Pattern 14 ON	On 15: MJ C Pattern 15 ON
Off 16: MJ C Pattern 16 Off	Off 17: MJ C Pattern 17 Off	Off 18: MJ C Pattern 18 Off

Home –> Panels –> "Panel Name" –> Panel Setup –> Pattern Setu

Hint: It is strongly recommended that each relay only be included in a single channel. The relay responds to channel control actions for all the channels to which it is assigned. This can produce unexpected results.

Troubleshooting Tip: If lights are turning on or off at odd times, check the **Override** page to see if the relay(s) are included in more than one channel.

The programmable fields on this page are as follows:

- **Panel Name** – The name set when the panel was originally commissioned. The name can be changed from this field if necessary.
- **Channel Description** – Enter up to 60 characters to describe this channel.
- **Select Channel Scenario** – Select an automation scenario for the channel from the drop-down menu.
- **Delay Time (Min)** – Enter a time delay (number of minutes) if desired.
- **Blink** – Use the drop-down to select a blink warning if desired.
- **Select Schedule Source** – If this channel uses a schedule, choose whether the schedule will be a local panel schedule or a global schedule.

  Hint: If a local panel schedule is set for a channel, this channel in this panel follows this schedule, even if a global schedule is set for the same channel.
- **Select Darkness Source** – Select whether this channel will use the photocell or the astronomic clock to determine the dark or light status. This setting is necessary only if the channel is set for a scenario containing dark on.

After all selections are made, click **Save** to save the settings in the database.

CAUTION: Do NOT click Refresh before Saving; this will erase the information you just entered.

Naming Relays

The system allows a user description to be associated with each relay. Use the Relay Descriptions link on the panel setup page to access this feature. While entering relay descriptions, be sure to **Save** your work periodically. If you refresh the screen for any reason, all unsaved names will be lost.

Panel Building "E" -LI48 - Relay Descriptions

🏠 Home 🖥 Panels 🖥 Building "E" -LI48 📶 Panel Setup 🔥 Relay Descriptions

Relay	Relay Description	Relay	Relay Description	Relay	Relay Description
01		17	MJ C Pattern 17 Off	33	MJ33
02		18	MJ C Pattern 18 Off	34	MJ34
03		19		35	
04		20		36	
05		21		37	
06		22		38	
07		23		39	
08		24		40	
09	MJ B9	25		41	
10	MJ B10	26		42	
11	MJ B11	27		43	
12	MJ B12	28		44	
13	MJ B13	29		45	
14	MJ C Pattern 14 ON	30		46	
15	MJ C Pattern 15 ON	31		47	
16	MJ C Pattern 16 Off	32		48	

Home –> Panels –> "Panel Name" –> Panel Setup –> Relay Descriptions

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CAUTION: Do NOT click Refresh before Saving; this will erase the information you just entered.

Programming Switches

1. From the Home page, click **Switches**.
   A page opens showing all the Dataline Devices.
2. Click the Item number to select a switch from the list to be programmed.
   The switch **Button Configuration** screen opens.

Home –> Switches –> Switch Setup

Buttons may be programmed for one of three types of control: Group, Pattern, or Channel. The default is to control a group of relays ON/OFF. Click **Pattern** if you wish to program the button to control some relays ON and some relays OFF with the same button press. With Group or Pattern control, the button controls relays only within a single panel.

The third choice is to control a channel. Click **Channels** if you wish to have the button control a channel. Use the drop-down to select a channel to be controlled. Use the drop-down for each panel to either include or exclude control of this channel in each panel.

If desired, a description may be entered for each button at the top of the page.

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When complete, click **Save** to save the settings in the database.

CAUTION: Do NOT click Refresh before Saving; this will erase the information you just entered.

Global Schedules

Global schedules are useful when you would like a group of relays in more than one panel to follow the same schedule. Using a Global Schedule rather than a Panel Schedule allows this to be accomplished with a single schedule entry that affects the channel in all panels.

There are a few rules that the LIA-WEB uses when executing schedules:

- Holidays cause Global Schedules to be ignored.
- Panel Schedules ignore Holidays. If you select this value, any schedule changes set on the Holiday Schedule screen are ignored.
- Special Events in global schedules are specific to a global channel.
- Special Events in panel schedules are specific to a panel channel.

1. From the Home page click **Global Schedules**.

   The **Global Schedules** page shows current status (Occupied or Unoccupied and whether or not it is a Holiday) as well as the Schedule for the current day. Each channel is mapped to the schedule of the same letter

Home –>Global Schedules

2. To view the weekly schedule for a specific channel, click the **Schedule Bar** or select the specific channel **Schedule** from the navigation bar.

Weekly Schedule for Channel C

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3. To edit an existing schedule period, double-click the period.
   To add a schedule period, click **Add Event** at the bottom of the day.

4. Enter a start time and an end time for the schedule period.
5. Use the drop-down menu to select if the schedule period is to be **Occupied** or **Unoccupied**.
   Hint: Periods that are not scheduled to be occupied are automatically unoccupied at all other times. If an occupied schedule and an unoccupied schedule overlap, the occupied schedule has precedence. Each day can have up to two schedule events.
6. Use the **Description** field to enter a meaningful description for the purpose of the schedule.
7. Repeat the process for each day of the week.
8. When finished, click **Add** to save the schedule information to the database.
9. To enter a special event, click **Special Events** at the bottom of the page.

Holiday Schedules

1. From the Home page click **Global Schedules** then select **Holiday**.

Home –> Global Schedules –> Holidays –>

2. To add a holiday, click **Add** and then enter the day, month and year information for the holiday event.
   Each holiday takes precedence over the normal schedule set for that day.

3. To **Edit** or **Delete** an existing holiday, click the check box next to the holiday, then click **Edit** or **Delete** as needed.

BACnet Schedules

This screen is only used if the LI network is connected to a BAS operating a BACnet network. This screen allows you to assign each channel, as a BACnet object, to run schedules according to the internal global schedules assigned through the LIA-WEB, or to run schedules according to the external BACnet BAS assignments. For more information about BACnet integration, see the Appendix of the LIA-WEB Installation Instructions.

Global Schedule Source Selection

Channel	Object Instance	Description	Source Selection	Status
A:	BV 01	Site Lighting (Global Schedule A)	External BACnet Schedule A	Occupied
B:	BV 02	Main Street Lighting (Global Schedule B)	External BACnet Schedule B	Unoccupied
C:	BV 03	Global Schedule Channel C	Internal Global Schedule C	Occupied
D:	BV 04	Roof Recepts. (Global Schedule D)	Internal Global Schedule D	Unoccupied
E:	BV 05	Building Ltg. (Global Schedule E)	Internal Global Schedule E	Unoccupied
F:	BV 06	Pole Recepts. (Global Schedule F)	Internal Global Schedule F	Occupied
G:	BV 07	Landscape Recepts.(Global Schedule G)	Internal Global Schedule G	Unoccupied
H:	BV 08	Junction Boxes (Global Schedule H)	Internal Global Schedule H	Occupied

Refresh Save

Panel Schedules

Panel schedules are similar to global schedules, except that they affect only the channel within a particular panel.

1. From the Home page, click **Panels.**
2. Then select a panel in which you would like the schedule.
3. From that panel's screen, select **Panel Schedules** from the navigation bar.
4. Then select the channel to schedule.

Panel Schedules For QC Station

Channel	Description	Status	Dedicated Panel Schedule
A:	Panel Schedule A	Unoccupied	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
B:	Panel Schedule B	Occupied	Occupied 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
C:	Panel Schedule C	Unoccupied	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
D:	Panel Schedule D	Unoccupied	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
E:	Panel Schedule E	Unoccupied	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
F:	Panel Schedule F	Unoccupied	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
G:	Panel Schedule G	Unoccupied	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
H:	Panel Schedule H	Unoccupied	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Refresh | Save

Home –> Panels –> "Panel Name" –> Panel Schedules

5. When you have finished entering the schedule for the channel in this panel, click **Save** to save it in the database.
6. Once the schedule is saved, click the **Back** button on the browser, or navigate back to the panel name screen, then to the **Panel Setup** screen.

Home   Panels   Building "E" -LI48   Panel Setup

Relay Descriptions   BACnet Status

Panel: Building "E" -LI48 - Channel A Group Operation Setup

Chan A | Chan B | Chan C | Chan D | Chan E | Chan F | Chan G | Chan H

Pattern Setup

Panel Name: Building "E"-LI48	**Channel Description:** Channel A
Panel Neuron ID: 00 c0 41 54 12 00	**Select Channel Scenario:** Schedule On / Schedule Off
Panel Number: 5	**Delay Time (Min):** 0 [0.0 - 240.0]
Panel Hardware Version: Lighting Panel - 48 Relays	**Blink:** Disable
Panel Firmware Version: 14	**Select Schedule Source:** Panel Schedule
Panel Communication Status: {ok}	

"Panel Name" –> Panel Setup

7. From the **Panel Setup** screen, set **Select Schedule Source** to "Panel Schedule".

Troubleshooting Tip: If Lighting controlled by one of the panels is consistently behaving other than as expected for a global schedule, confirm that a channel in that panel is not set to follow a Panel Schedule.

Alarms

The **Alarm Summary** display on the home page indicates if any devices on the dataline are currently in fault (not responding) or have been in fault at some past time. A device may be currently working normally and still show an active alarm until the alarm is acknowledged.

To acknowledge an alarm:

1. Click **Alarm** in the navigation bar.
2. Check the box to the left of the alarm to be acknowledged.
3. Then click **Acknowledge**.
   - Devices that are in alarm and in a fault condition display in red on the **Alarm** page and on their respective browser screen.
   - Devices that were in alarm but are now working display in yellow.
   - Once an alarm is acknowledged, the device displays in gray.

Reports

The **Reports Function** allows the user to download the panel and switch programming as .PDF files. These can be stored for future reference, or printed.

1. From the home page click **Reports**.
2. Choose **Reports** for panels or switches.
   NOTE: A Report for an individual panel or switch can be accessed from the **Panel Setup** or **Switch Setup** page respectively.
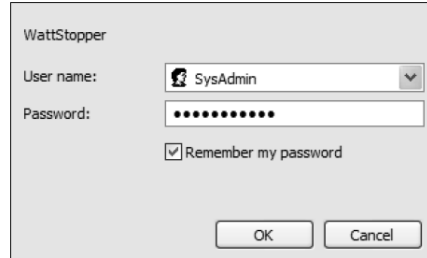
Backup and Restore

The Backup and Restore functions allow the LIA-WEB program to be stored on the hard drive of the PC. To access the Backup and Restore functions, it is necessary to log into the LIA-WEB as the System Administrator.

1. Open a new browser.
2. Navigate to the LIA-WEB.
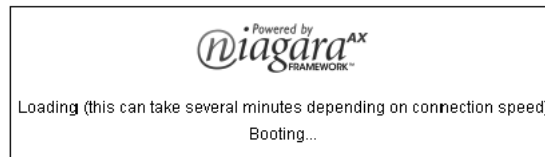   The factory default login is shown below with:
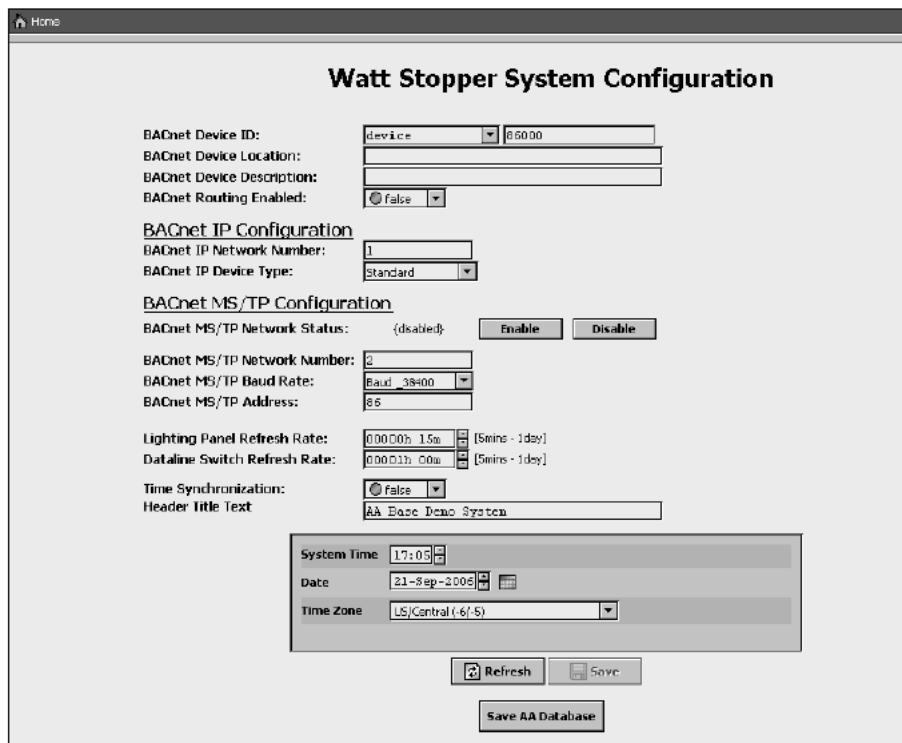   **User name:** SysAdmin
   Password: W@ttstopp3r.

NOTE: The first time you log in as SysAdmin, an application is automatically downloaded to the PC. This process can take several minutes for the initial login. Subsequent logins open after a shorter delay.

During loading, the following message displays:

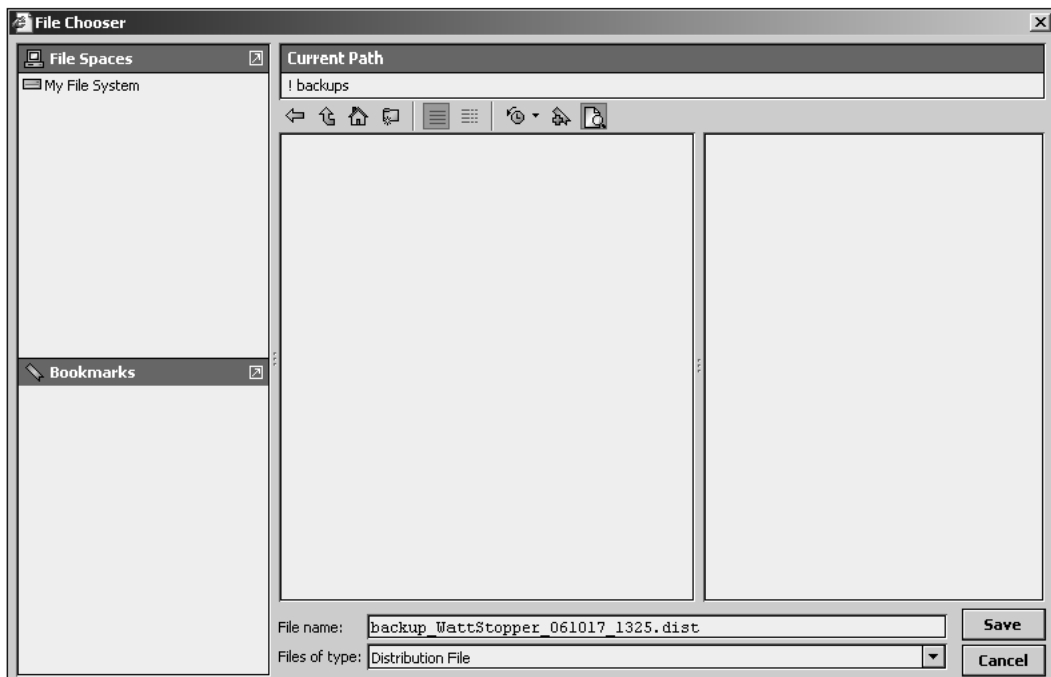After a short delay, the following screen opens:

3. From the **Home** menu, select **Station Backup**.
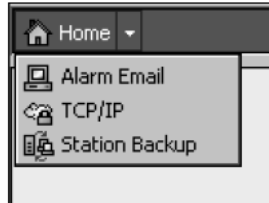
4. On the **Station Backup** screen, click **Backup**.
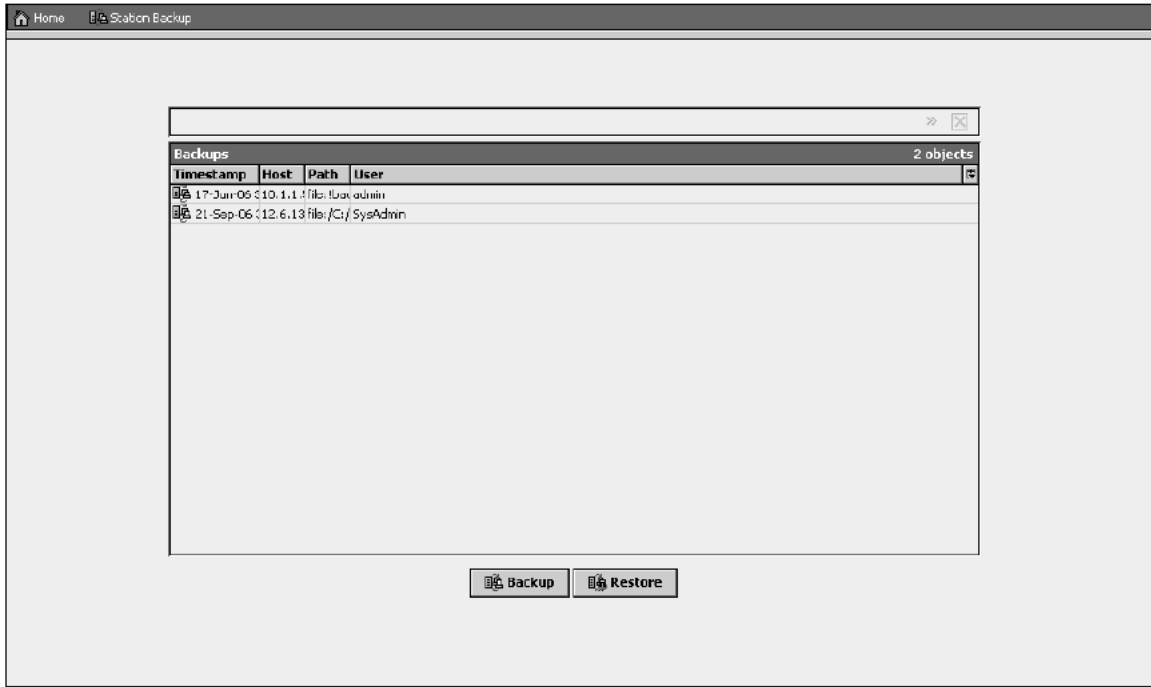
After a short delay, the following screen opens:

5. Click **My File System** to display the file tree for the PC.
6. Navigate to the desired folder.
7. Click **Save** to back up the program.
   A progress bar shows the status of the backup.

Restore

To restore the program from the hard drive, follow the same procedure as above, except:

1. Click **Restore**.
2. Then navigate to the folder that contains the backup file.
3. Select the correct backup file.
4. Click **Restore** to restore the program to the LIA-WEB.
5. Click **My File System** to display the file tree for the PC.
6. Navigate to the desired folder, then click Save to back up the program.

APPENDIX

For compatibility with some older systems, the following information is included. Note that Wattstopper no longer sells these thermostats.

Discover Thermostats

Use the **Discover Thermostats** screen to add thermostats to the Automation Appliance network.

1. To discover switches, from the Main Setup Page select Discover Thermostats.
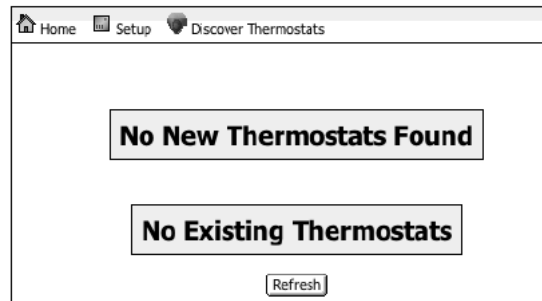
Home –> Setup –> Discover Thermostats

2. Walk (or send your assistant) to the thermostat you want to add.
3. Press the **Service Pin** on the new thermostat to annunciate its identity on the bus.
4. Go back to the PC and click Refresh on the **Discover Thermostats** page.
   The new thermostat displays in the upper window.
5. Enter a meaningful name for the thermostat that can help to identify its location.

6. Repeat steps 2 to 4 for all the thermostats you want to add.
   Hint: When working alone, you may choose to press several service pins before returning to the PC. Be sure to remember the order in which you press the pins, as this is the only way to distinguish between the thermostats. If any thermostat does not display in the upper box, it is necessary to click Clear New Device Table and repeat the sequence.
7. Click Add New Thermostats.
   The following message displays:
   This operation may take several minutes. This message disappears when complete.
8. After completing the thermostat discovery process, the list of thermostats displays in the lower box on the screen. The LIA-WEB lists the thermostats according to their "Item" number, which is the order in which the service buttons were pressed.
9. Choose one of the following options:
   • Click one of the thermostat number buttons to configure the thermostat.
   • Click Setup in the navigation bar to return to the Setup page.
   • Click Home to return to the Home page screen.

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