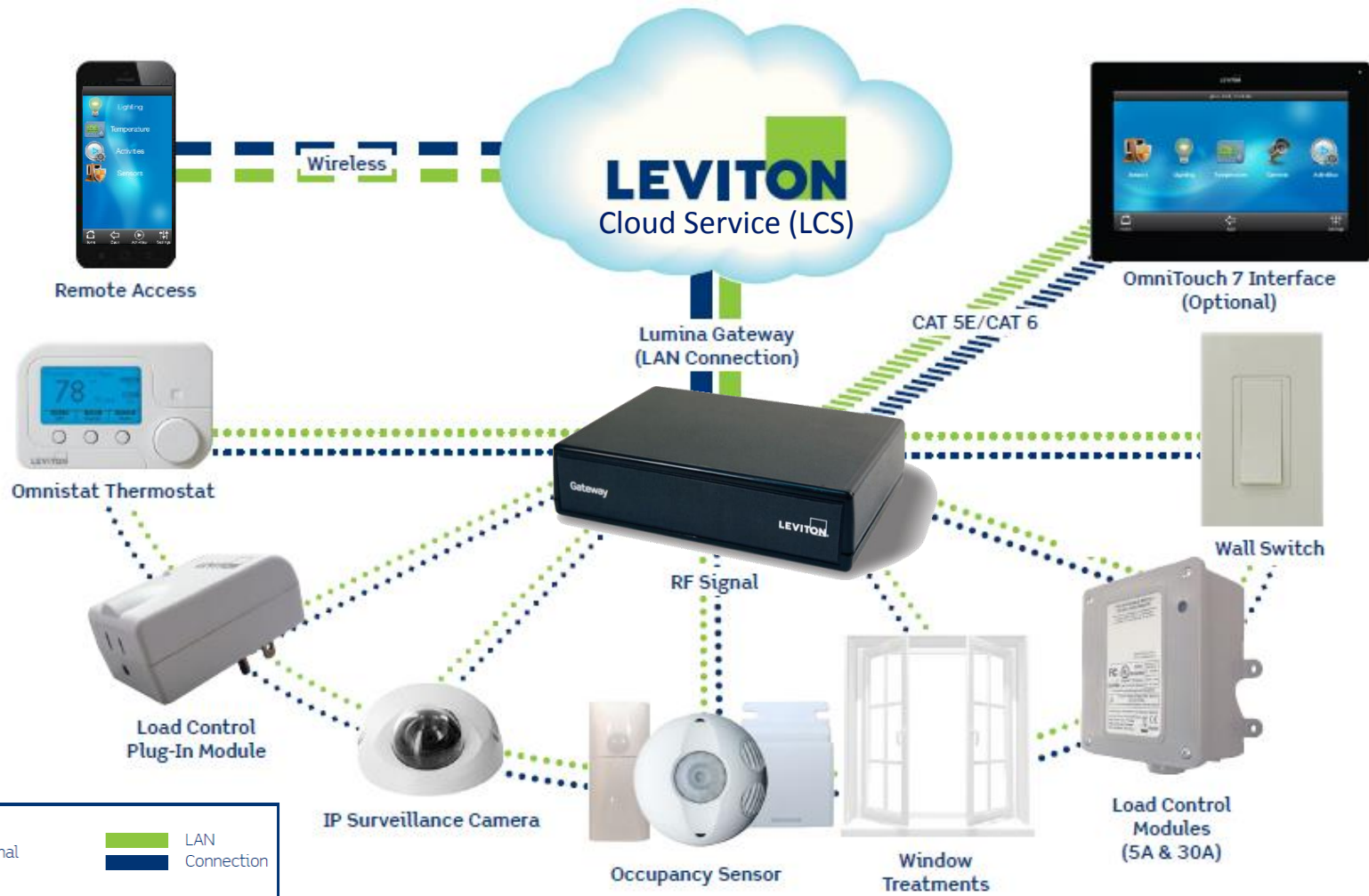




Lumina Gateway

Lumina Gateway Architecture



Solutions

- **Eco-System** – wireless system delivers simple energy efficient functional automation
 - Links up to 40 nodes or devices
- **Wireless**– simple and easy to install, design & configure
 - Intuitive drag and drop setup means no confusing programming
 - “Mesh” network offers advantages over point to point with extended coverage over entire building & “self-healing “ capabilities to bypass broken line of sight communications
- **App based remote control** – remote access for multiple property locations using the free Lumina Mobile app
 - Easily monitor and adjust lighting loads and temperatures as well as control shades via iOS and Android
 - Multiple location control – ideal for franchises
 - Zero fees – competition charges up to \$70 per location

Solutions

- **Cloud enabled** – utilizes the cloud but not needed for operation
 - Decreased latency & immediate control of products with no delay or loss of communication if internet connection is lost; i.e. light switch “talks” directly to the brain (Gateway) on site vs. competitors who use the internet
- **Lighting control** – system includes occupancy sensing and a scheduler with a built in astronomical time clock for easy energy savings and safety
- **Thermostat control** – works with sensors to automatically adjust temperature to pre-determined settings based on occupancy for additional energy savings
- **Load control** – ON/OFF control for heavy duty motors for additional energy savings



A decorative background pattern of small, light green plus signs arranged in a grid, with a slight gradient effect.

Lumina RF Components

What is the Lumina Gateway?

- Lumina™ Gateway Hub
 - LU741-000
- Wireless Small Commercial Energy Management
 - Remote Access
 - Sensors
 - Lighting Control
 - High Wattage Load Control
 - Temperature/Humidity
 - Scheduling
 - Notification
 - IP Cameras (local viewing on Touchscreen)
 - Window Coverings (Shades)
- Works with Leviton's Lumina RF Wireless Devices



Wireless Energy Management
Automation for Retail, Restaurants,
Offices, and more!



Lumina Gateway Features and Benefits

■ Powerful logic stored in controller

- Simplified time schedules
- Sensor based actions
- Macros/Activities
- Flash programming = constant system enhancements and capabilities offered to customers

■ Automated + Manual Load Control

- Utilize slider bars to adjust lighting load levels from 0 to 100%
 - Software control for installation testing; apps and touchscreens
- Adjust thermostats including humidity settings
- Control Somfy window coverings controlled by the Somfy 1870220 interface

■ View live IP cameras on touchscreens

■ E-Mail Notification Built-In for Alerts

■ Can use OmniTouch or free secure iOS/Android App for control

- Control multiple locations with no fees, ideal for franchisees

■ Easy to Program using Free Setup Software

- Each Installer must be registered to the Leviton Cloud Service



Wireless Sensors

■ Door / Window

- Reports open / closed status of doors and windows
- Compact size
- Three color LED event indication/confirmation
- Long battery life (up to 5 years)
- Easy battery replacement



■ Leviton Motion detector: corner mount

- Reports occupancy / vacancy within its viewing range
- Compact size
- Three color LED event indication / confirmation
- Long battery life (up to 5 years)
- Easy battery replacement
- Coverage area: approximately 16 feet



Load Control: Lights, Fans, Fountains, Pumps, etc.

■ 120 / 230 / 277 VAC 10A Switch

- Designed to replace existing switches for load control
- Top on / bottom off
- Top mounted finder LED



■ 15A 120 VAC, 60Hz Plug-In Appliance Module (89A00-1ZB)

- Designed for loads up to 15A
- Simple installation
- Current reporting



■ 30A 96-250 VAC, 50/60Hz Load control (73A00-3ZB)

- Great for high current applications: water heaters, pool pumps, fountains
- Self contained enclosure
- Magnetic local control

■ 5A 96-250 VAC, 50/60Hz Load Control (73A00-4ZB)

- Great for lower current applications: AC units, pool/spa heaters/pumps, generators
- Self contained enclosure
- Magnetic local control



Temperature + Humidity Control

■ RC-1000WHZB

- Conventional thermostat, available in White/Black/Silver
 - Single Stage
 - Gas, Oil, Steam, Hydronic, Forced Air, Radiant, and Electric
 - Air to Air Heat Pump and Dual Fuel
- Proximity Sensing

■ RC-1500WHZB

- Multi-Stage Universal thermostat, available in White
 - All off the single stage capabilities of the RC-1000
 - Two stages of cooling and three stages of heating
 - Geothermal Heat Pump

■ RC-2000WHZB

- Multistage thermostat with humidity sensing, available in White/Black/Silver
 - Supports humidification and dehumidification



Camera and Window Shade Control

■ Indoor / Outdoor Mini Dome IP Camera

- Live footage displayed on OmniTouch 7 Touchscreen
- Capable of 30 frames per second communication
- Supports MJPEG and H.264 formats
- Rated IP66 for outdoor applications
- Black and white switching for low light applications
- Operational temperature range 14° to 122°F
- Supports PoE



■ Somfy ZBDMI – ZigBee interface

- Compatible with Somfy ILT and RS-485 tube motors
 - 2-Way communicating motors
- Learns into the Lumina Gateway the same as a load device



Interfaces: Touchscreen, App, Setup Software

■ OmniTouch 7 Touchscreen

- Same SKU's, 99A00-1 and 99A00-2
 - Firmware on the OmniTouch 7 is designed to work with either the Omni family of controllers or the Lumina Gateway
- Current OmniTouch 7 screens will be able to update to the latest firmware



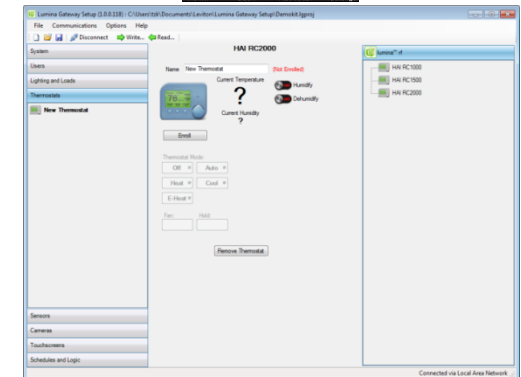
■ Leviton Gateway Free Apps: iOS and Android

- Quick access to device status and control
- No network configuration required, just a Leviton Cloud Service user name and password



■ Lumina Gateway Setup Software

- Quick setup and configuration of Lumina Gateway systems
- Automated discovery
- Built-in cloud registration
- Simplified interface makes programming quick and easy



Lumina Gateway Installation Notes

- Gateway Installation is simple
 - Connect C & D from diagram
 - Wait for the upper left LED to flash slowly
- Robust 2.4GHz Mesh Networking Technology
 - Device to Device Range: Up to 100 Feet between Lumina RF devices.
- Low power battery sensors mesh through devices with permanent power sources ensuring great coverage and simple installation
- Do not install the Lumina Gateway in a metal enclosure
 - Leviton RF Transparent Structured Media Enclosure Available, part # 49605-30W



- A LED Indicators
- B Reset Button
- C Ethernet Port
- D Power Input

Lumina RF Gateway vs. Omni

	Lumina RF Gateway	Omni
Solution	Standalone light commercial – targeted easy sell to multiple locations with “lather, rinse & repeat”	Residential and light commercial automation/security focus – Systems are setup to meet customer requirements
Sales Cycle	Short sales cycle with few design requirements “design in the AM, install in the PM & get paid”	Longer sales cycle due to design & installation
Design	Application focused with a simple learning curve	Highly flexible with interaction across many sub-systems. Training required and hands on experience required to fully understand all available installation applications
Pricing	Lower than OMNI – FREE software, FREE Lumina app, FREE text & email notifications	Additional fees for software, Lumina app, text & email notifications
Retrofit	Simple automation for lighting control, thermostat control & load control	Advanced controls compared to Lumina RF including security & A/V
Touchscreen Options	Optional OmniTouch 7 for dedicated control station	OmniTouch 7 are typically installed as a dedicated control station. Security keypads are available for surface or flush mount

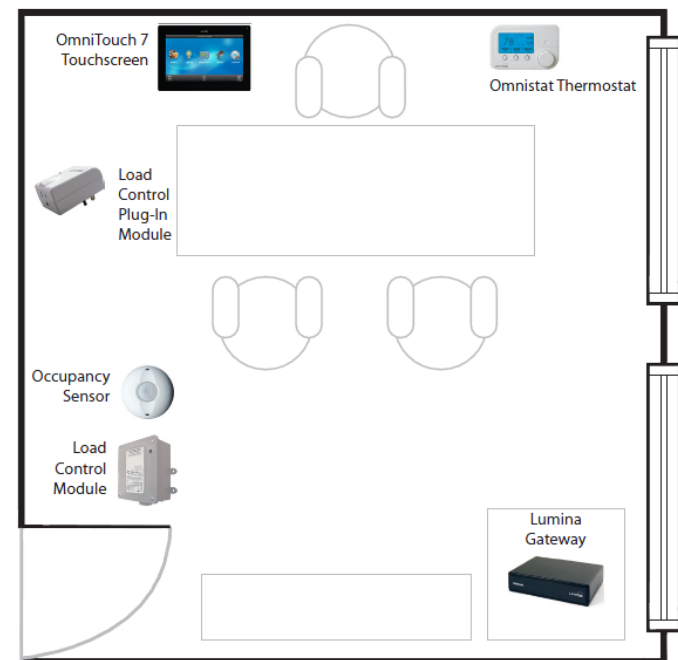
A decorative background consisting of a grid of small, light green plus signs (+) arranged in a regular pattern across the entire page.

Opportunities

Where is the Lumina Gateway Used?

- Any location requiring energy management that is heated and cooled by traditional HVAC systems
- Quick-service restaurants
- Cafes and coffee shops
- Franchise stores
- Small and private office spaces
 - Dental
 - Doctor
 - Business
 - Spas/Treatment
- Retail shops
- Strip mall locations

Small Office Control Solution



Where is the Lumina Gateway Used?

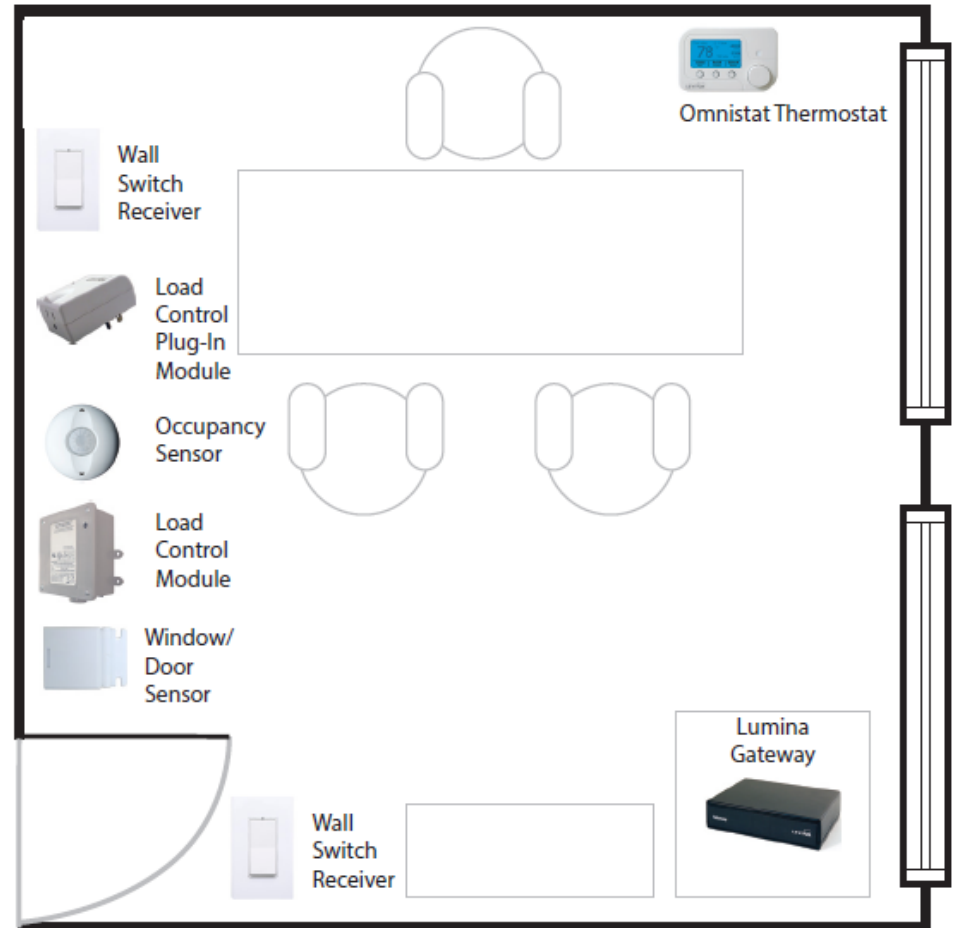
- Energy Management is a hot, growing market as energy prices continue to rise
- Light commercial is fertile ground for retrofit opportunities

Light Commercial Opportunities	# Establishments	# Establishments under 40K Sq. Ft.	% Under 40K Sq. Ft.
Retail (Excluding Restaurants)	2,688,095	2,546,597	94.7%
Restaurants	799,794	787,870	98.5%
Hotels	100,551	91,026	90.5%
Total	3,588,440	3,425,493	95.5%

- The Lumina Gateway combined with Lumina RF family of products is the perfect solution to provide energy management solutions for 95% of retail, restaurants and small hotels
 - Hotels: Includes boutique and bed and breakfasts

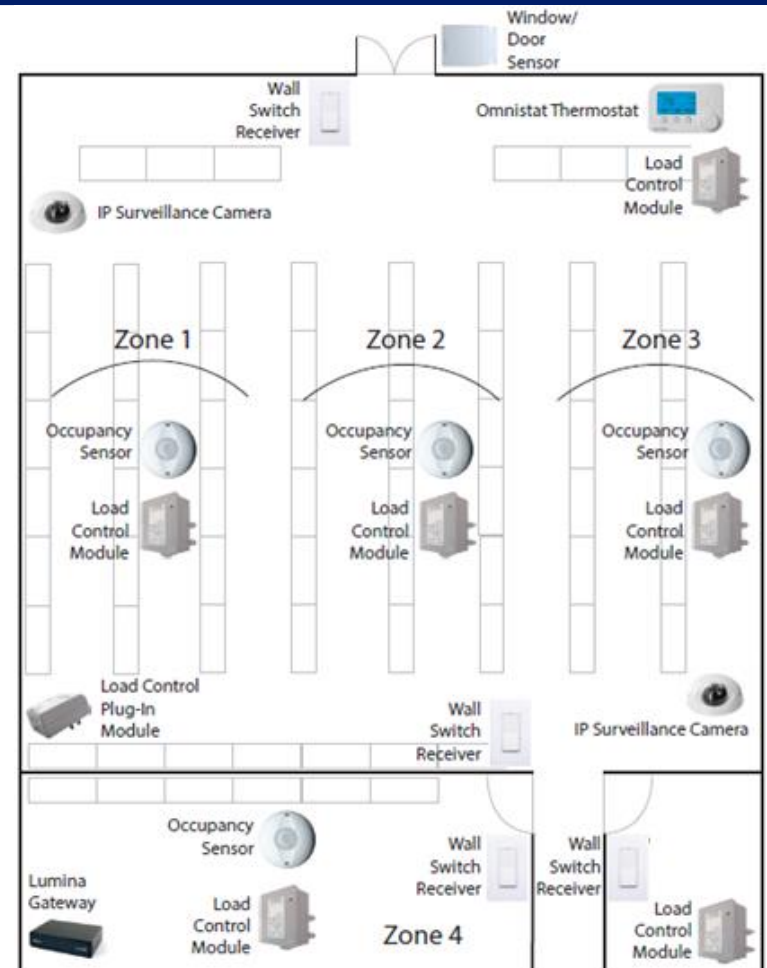
Small Office

- Remote access for multiple locations using the free iOS or Android app to easily monitor and adjust lighting loads, temperatures, and view live surveillance footage from a smartphone or tablet
- Lumina Gateway brings together thermostat and load controls into one system for easy programming and maintenance of all energy management devices
- Window Coverings category facilitates quick open/close of shades and draperies for occupant comfort and safety
- Intuitive interfaces (apps/touchscreens) are easy for any small office occupant to learn and use, reducing the time and resources spent to train users on operation



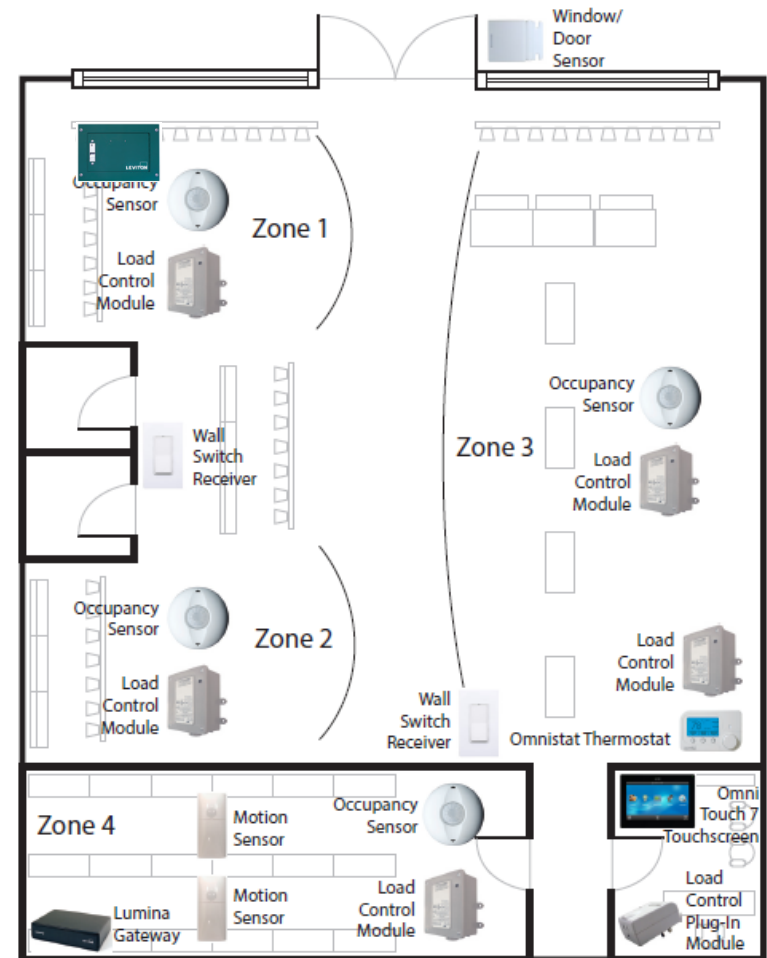
Convenience Store

- Occupancy sensor zoning with the Load Control Module creates lighting control strategies throughout the space
 - Remote programming options allows changes to occupancy sensor timeout adjustments
- Time scheduling allows key lights including signs, overhead lights and office lights to be controlled based on time of day, day of week, even sunrise and sunset
- E-mail notifications allow management to confirm proper store operation including opening/closing schedules, and safety notifications
- Free app control allow employees to easily see load and sensor status, control loads and adjust temperature



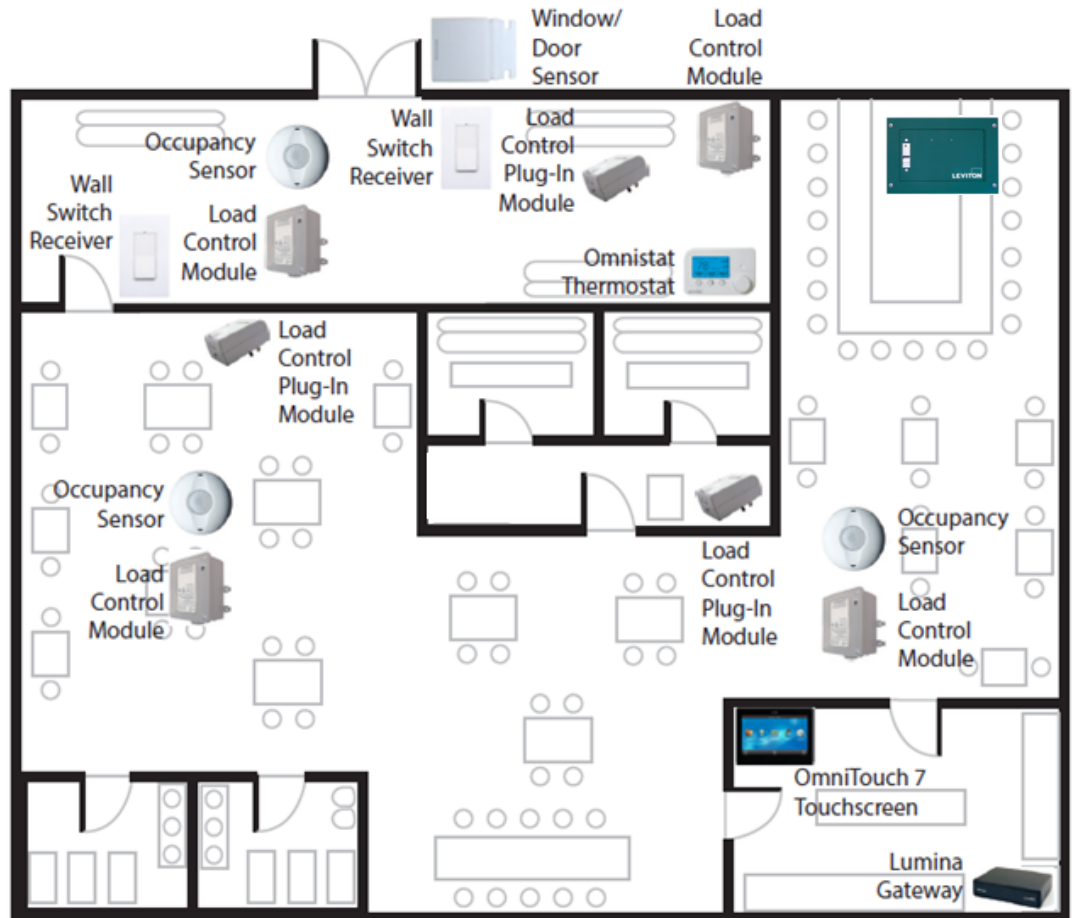
Retail Store

- Reduce HVAC use and high-draw appliance usage across the store while providing centralized control
- Occupancy-Based lighting control
- Door/Window Sensors to determine when store opened/closed (send an automatic text or email)
- Task lighting control for displays, cashier areas, and other specific lighting needs with the Track Light Limiting Panel (TLLP)



Restaurant

- Control lighting and security for VIP areas from the free app or optional OmniTouch 7 Touchscreen
- Control temperature/humidity in several areas
- Ensure signage activation at appropriate times
- View crisp IP surveillance video footage without any additional hardware
- Task lighting control for displays, cashier areas, and other specific lighting needs with the Track Light Limiting Panel (TLLP)

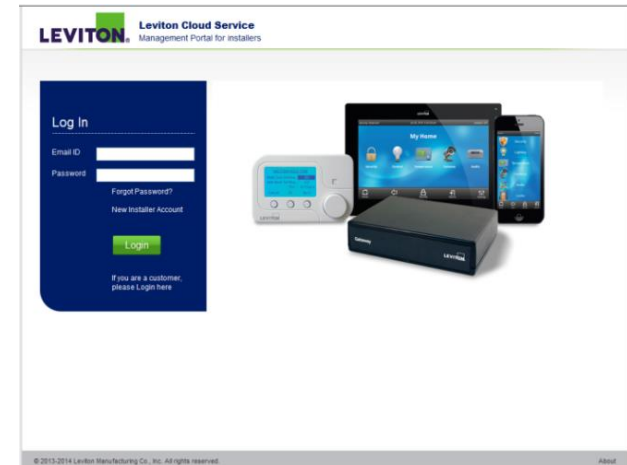


Programming Information

Lumina Gateway Eco-System

Registration: Accessing the Setup Software

- **Installation Companies must be registered to the Leviton Cloud Service**
 - **One Account Per Company**
 - <http://cloud.leviton.com>
 - LCS provides a secure connection to all systems for configuration and maintenance
 - Registration restricts systems from using LCS unless they are installed by an approved installer
 - The LCS connection is later used by the customer's app for remote status updates and control
- **Company Account signup is an easy process**
 - A quick form requests company information
 - Requires approval from Leviton Sales Personnel
- **Downloading Programming Software**
 - Authorized Installers are able to download the free PC-based Lumina Gateway Setup software file
 - The Lumina Gateway Setup Software must be activated with LCS credentials prior to utilization



Installing The Hub: Wizard

■ Wizard

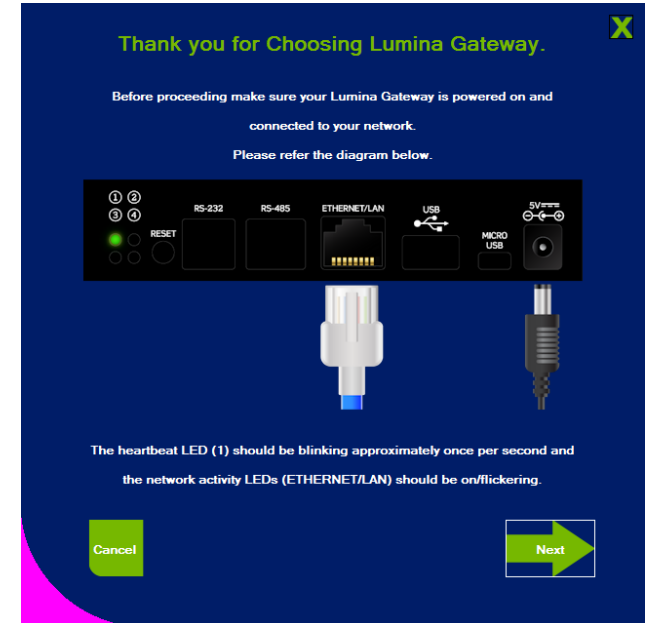
- The programming PC should be on the same LAN as the Lumina Gateway for the initial setup
 - Once the wizard is complete, the PC can connect from anywhere with Internet access

■ Wiring

- Ethernet connection with DHCP and Internet access
- Power
- Wait for the upper left “heartbeat” LED to blink

■ Find the Gateway

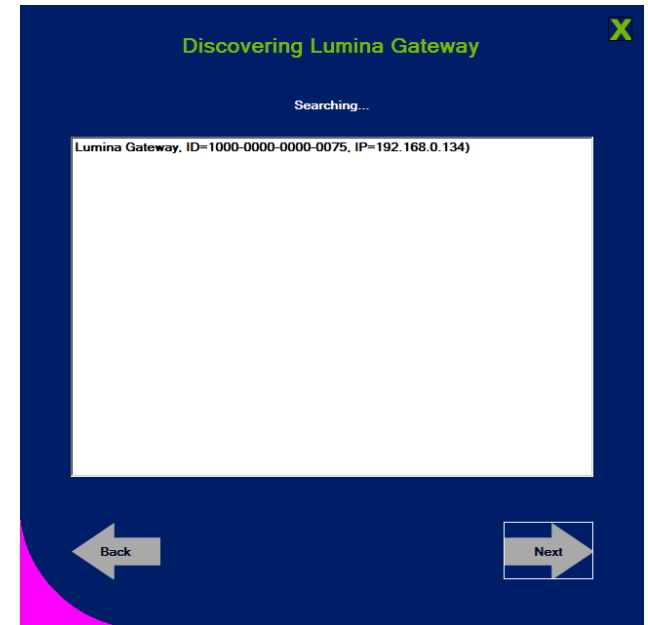
- Click “Register” to Register the Lumina Gateway to LCS
 - Creates the ability to connect to the Lumina Gateway through LCS
- If there is more than 1 Gateway on the LAN, a selection list is displayed



Discovery

■ Discovery

- The Lumina Gateway Setup Software will scan the network for Lumina Gateway(s)
 - If only one Lumina Gateway is found the software will advance to the Registration phase
 - If there is more than one Lumina Gateway on the network, the user can select the unit from the selection box
 - Each Lumina Gateway has a unique ID printed on the bottom of the controller



Registration

■ Registration

- Choose a name for the Lumina Gateway
 - The registration name is how the controller will be listed when connecting via an app
 - The Lumina Gateway must be on a network with Internet access to successfully register on the Leviton Cloud Service



The screenshot shows a registration screen titled "Registering Lumina Gateway" with a close button (X) in the top right corner. At the top center is the Leviton logo, which consists of a white cloud with a green square and the word "LEVITON" in white. Below the logo, it says "Connected to Controller." The main instruction reads: "Enter a name for you controller in the box below. Names like 'The Smith Residence' or '123 Oak Lane' are good choices. After assigning the name, click the 'Register' button to register your controller with Leviton Cloud Services." There is a text input field with the value "Lumina Gateway Demokit 001" and a green "Register" button below it. At the bottom, there are two navigation buttons: a green arrow pointing left labeled "Back" and a white arrow pointing right labeled "Next".

Location

■ Location

- Location information is used to determine sunrise/sunset times and to show the correct temperature scale
- For US and Canadian installations, a zip code/postal code lookup database makes setting the latitude/longitude, country, time zone and temperature simple
- Type in the zip code/postal code for the location and click on the US or Canadian flag

Location Information X

Lookup by Zip/Postal Code

Zip/Postal Code: 70129

City: New Orleans

State: LA

Geographic Location

This information is used to calculate the time of sunrise and sunset at your location, and to adjust the clock for daylight saving time.

Latitude: 30.1 North

Longitude: 89.9 West

Country: US - United States

Time Zone: America/Chicago - Central Time

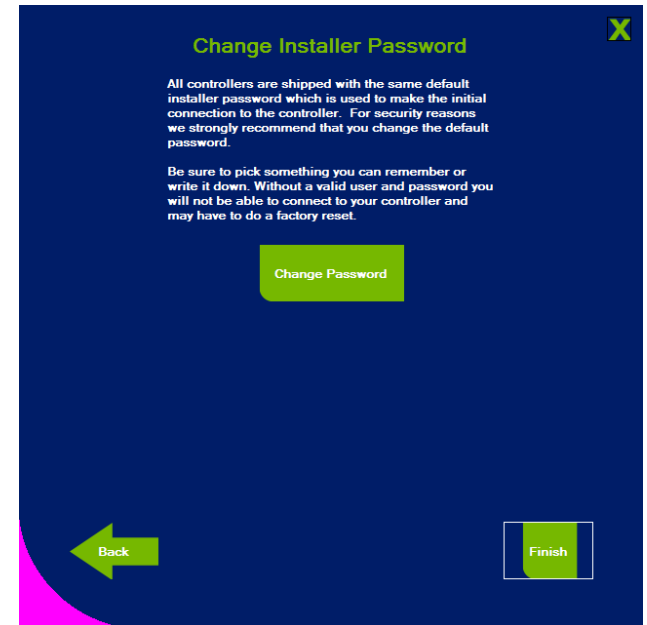
Temperature Format: Fahrenheit

Back Next

Installer Password

■ Installer Password

- The installer password is used to protect access to the Lumina Gateway from the Setup Software on a Local Area network connection
- The installer password is stored in the file



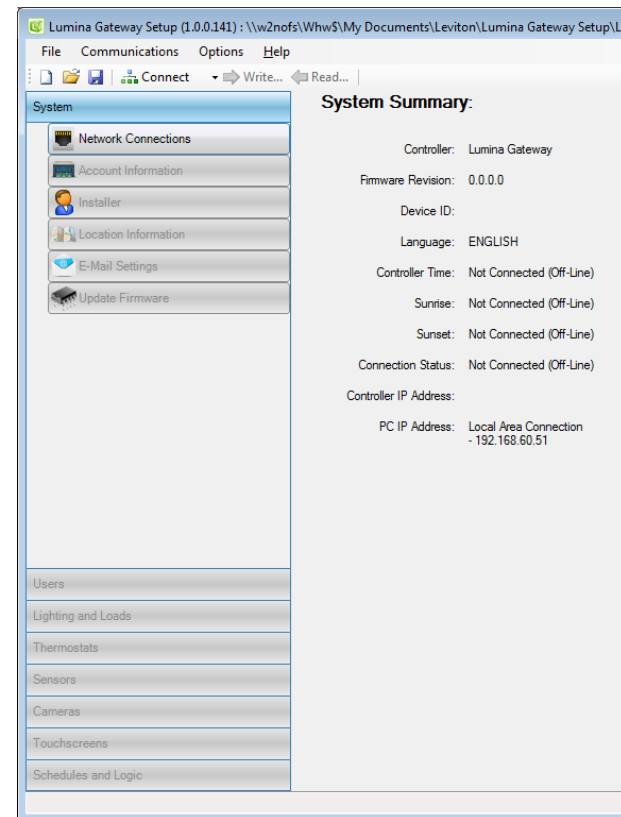
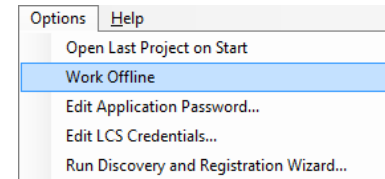
Network Connections

■ Disconnected

- All options are grayed out when a system is offline
 - The only live option is the network connection
- The best installer experience is when a system is on-line
 - The “Work Offline” option under Options allows an Installer the ability to create and edit fields when a controller is not connected

■ Connecting

- Leviton Cloud Services
 - A great option when the Installer is not on site
 - Due to layered encryption, it is best to use the LAN connection when on site
- Local Area Network



Account Information

- Click Account Information from Left-Hand Tree Menu
- The customer information and notes are stored in the programming file and are transferred to the Lumina Gateway
- Enter Name, Address, and Phone

The screenshot displays the 'Lumina Gateway Setup (1.0.0.149)' application window. The title bar shows the file path: 'C:\Users\TZK\Documents\Leviton\Lumina Gateway Setup\S&A Nola.lgproj'. The menu bar includes 'File', 'Communications', 'Options', 'Utilities', and 'Help'. Below the menu bar is a toolbar with icons for 'Disconnect', 'Write...', and 'Read...'. The main interface is divided into two panes. The left pane, titled 'System', contains a tree view with the following items: 'Network Connections', 'Account Information' (which is selected), 'Installer', 'Location Information', 'E-Mail Settings', and 'Update Firmware'. Below this tree view are several other menu items: 'Users', 'Lighting and Loads', 'Thermostats', 'Sensors', 'Cameras', 'Touchscreens', and 'Schedules and Logic'. The right pane, titled 'Account Information:', contains three text input fields: 'Controller Name', 'Address', and 'Phone'.

Installer Properties

- Installer information is automatically populated from the information stored in the Leviton Cloud Service

Lumina Gateway Setup (1.0.0.149) : C:\Users\TZK\Documents\Leviton\Lumina Gateway Setup\S&A Nola.lgproj

File Communications Options Utilities Help

Disconnect Write... Read...

System

- Network Connections
- Account Information
- Installer**
- Location Information
- E-Mail Settings
- Update Firmware

Installer Properties:

First Name

Last Name

LAN Login Name "installer"

LAN Password Password Set

Telephone Number

Company Name

Address Line 1

Address Line 2

City

State

Country

Postal Code

E-Mail Address Description	E-Mail Address	Delete
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Users

- Lighting and Loads
- Thermostats
- Sensors
- Cameras
- Touchscreens
- Schedules and Logic

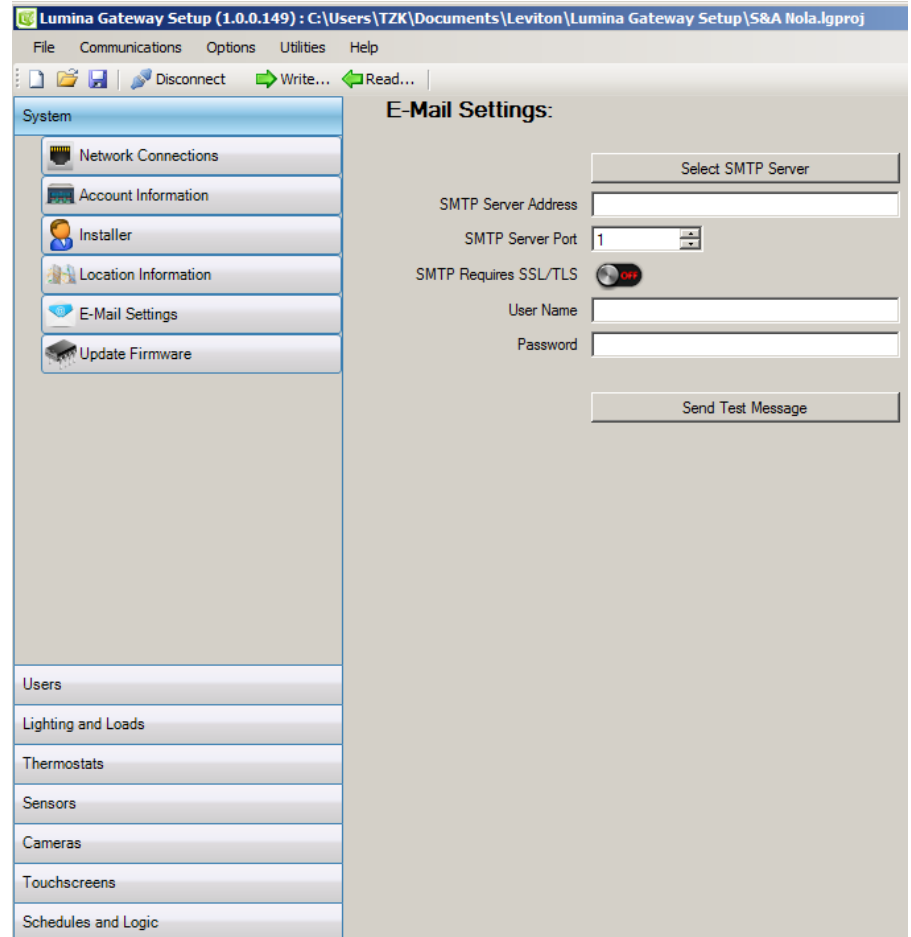
Location Information

- This information is automatically populated from the Wizard
- Location Information is used to calculate sunrise/sunset
- For US and Canadian installations, simply type in a zip code and choose the correct flag
 - A database is used to populate the correct values
- Time Zone
 - The zip code database contains a single location to represent each time zone and daylight savings time combination
- The temperature format is used to determine Fahrenheit or Celsius

The screenshot displays the 'Lumina Gateway Setup (1.0.0.149)' application window. The title bar shows the file path: 'C:\Users\TZK\Documents\Leviton\Lumina Gateway Setup\S&A Nola.lgproj'. The menu bar includes 'File', 'Communications', 'Options', 'Utilities', and 'Help'. Below the menu bar is a toolbar with icons for 'Disconnect', 'Write...', and 'Read...'. The main interface is divided into two panes. The left pane, titled 'System', contains a list of configuration categories: 'Network Connections', 'Account Information', 'Installer', 'Location Information' (which is currently selected), 'E-Mail Settings', and 'Update Firmware'. Below this list are other system categories: 'Users', 'Lighting and Loads', 'Thermostats', 'Sensors', 'Cameras', 'Touchscreens', and 'Schedules and Logic'. The right pane, titled 'Location Information:', contains two sections. The first section, 'Lookup by Zip/Postal Code', has a 'Zip/Postal Code' text box, a 'City' text box, and a 'State' text box. To the right of the 'Zip/Postal Code' box are two flag icons for the United States and Canada. The second section, 'Geographic Location', includes a descriptive text: 'This information is used to calculate the time of sunrise and sunset at your location, and to adjust the clock for daylight saving time.' Below this text are several input fields: 'Latitude' (30.1) with a 'North' dropdown, 'Longitude' (89.9) with a 'West' dropdown, 'Country' (US - United States) with a dropdown arrow, 'Time Zone' (America/Chicago - Central Time) with a dropdown arrow, and 'Temperature Format' (Fahrenheit) with a dropdown arrow.

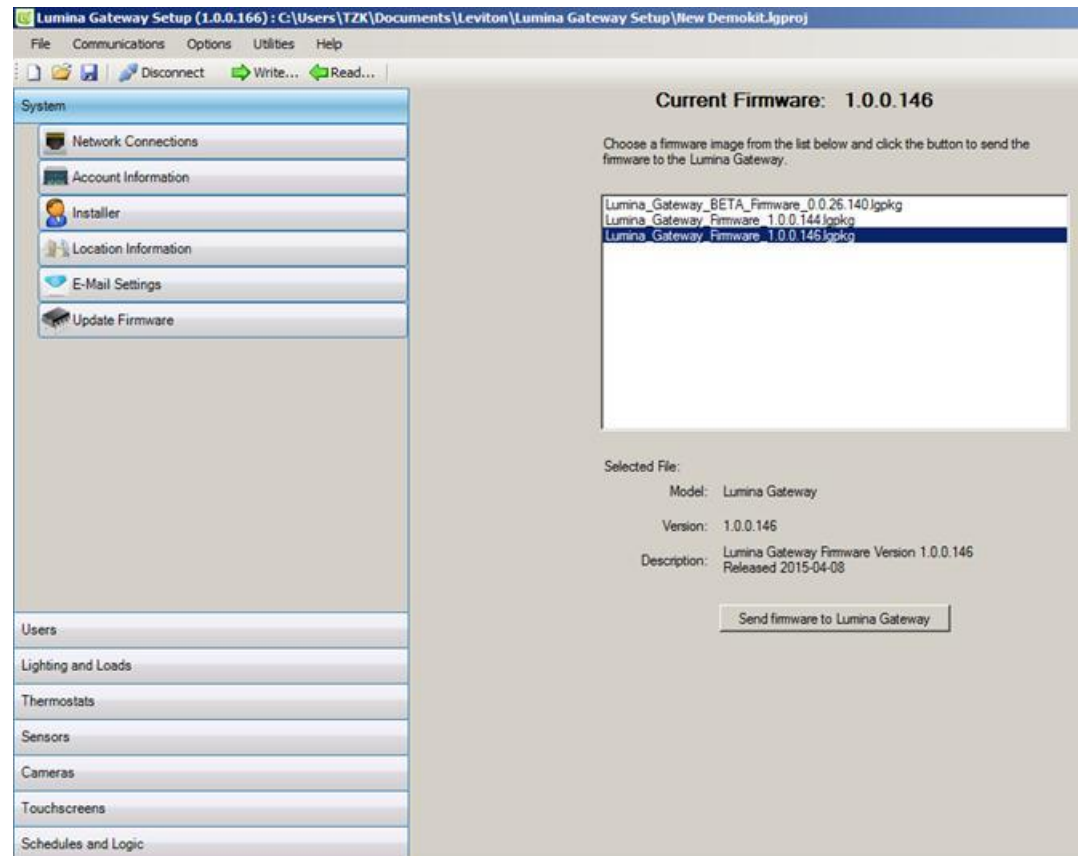
Email Settings

- Send email or SMS text alerts/notifications
- Setup the SMTP server
 - A list of tested server configurations is stored under “Select SMTP Server”
 - Additional SMTP servers can be added and reused with future installations
- A test Email can be sent to validate the SMTP configuration



Firmware

- The Lumina Gateway can be flashed over a LAN connection as new features are released
- Updating is as simple as double clicking a release
 - Or, highlight and click “Send Firmware to Lumina RF”
- Updating firmware takes 5-10 minutes



Configuration Information

Lumina Gateway Eco-System

Establishing Users of the System

- Users added to Lumina Gateway and access is granted through Leviton Cloud Services (LCS) all from one screen
- On the left choose Users
 - On the right double click on User or drag to the center area
 - Enter the information for the users
 - All fields with a * must be entered
 - An e-mail address must be added
 - Click on “Create LCS Account”
 - If the user does not exist you will be prompted to create a user name and password
 - If the user already exists you can add access to the Lumina Gateway to their account
- Additional e-mail accounts can be added for SMS Notifications

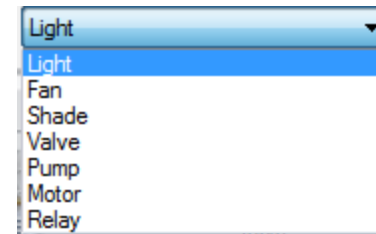
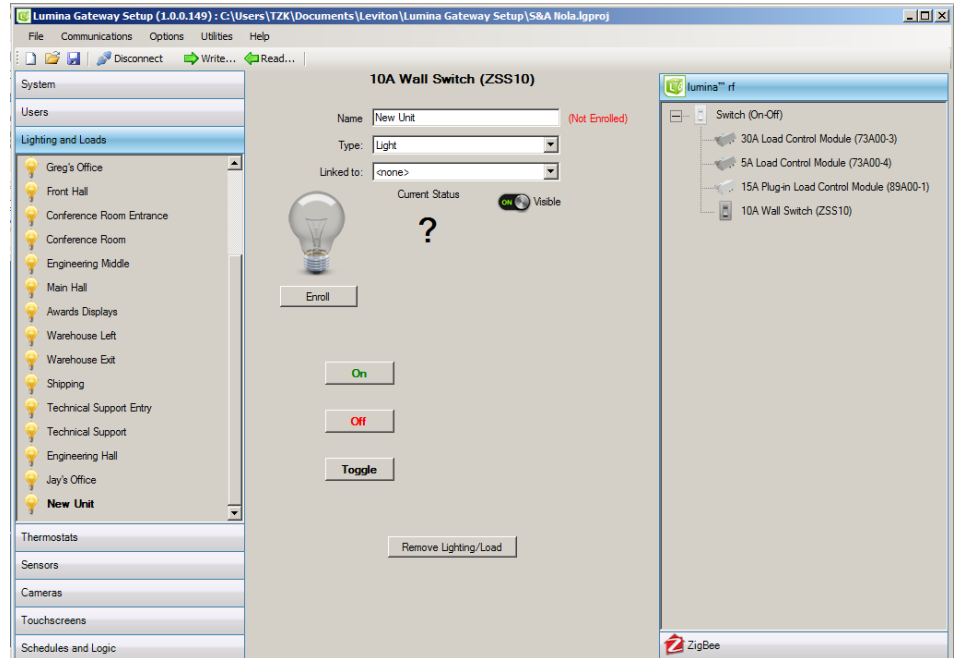
The screenshot shows the 'Lumina Gateway Setup (1.0.0.149)' application window. The title bar indicates the file path: C:\Users\TZK\Documents\Leviton\Lumina Gateway Setup\S&A Nola.Igproj. The interface is divided into several sections:

- System:** A sidebar on the left with a tree view containing 'System', 'Users', 'Lighting and Loads', 'Thermostats', 'Sensors', 'Cameras', 'Touchscreens', and 'Schedules and Logic'. The 'Users' folder is expanded, showing a 'New User' icon.
- User Properties:** The main central area contains a form for creating a user. Fields include:
 - * First Name:
 - * Last Name:
 - Login Name: "New User"
 - * Telephone Number:
 - Password: with a 'Change Password' button and 'Password Not Set' text.
 - LCS Username: with a 'Create LCS Account' button.
 - Company Name:
 - Address Line 1:
 - Address Line 2:
 - City:
 - State:
 - Country:
 - Postal Code:
- E-Mail Address Description:** A table with columns for 'E-Mail Address Description', 'E-Mail Address', and 'Delete'. An 'Add E-Mail Address' button is located below the table.
- Users:** A small sidebar on the right showing a 'User' icon.

* At least 1 E-Mail address is required to create an LCS Account. The confirmation E-Mail will be sent to the first E-Mail address.

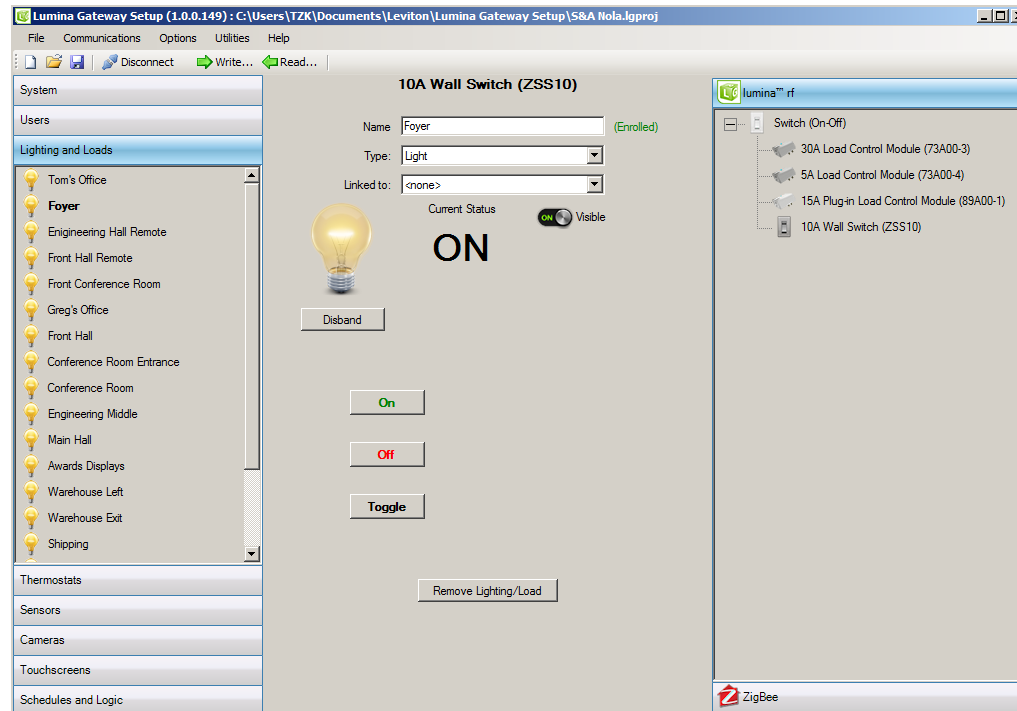
Lighting Load Creation

- Add a Load from the panel on the right
 - Double click, right click or drag to Lighting and Loads on the left
- Change the device name
- The device icon type can be changed
- Each Lumina RF device has an enrollment procedure
- With the device in learn mode, click “Enroll”
- Linked to
 - Allows ‘virtual 3-way’
 - Example:
 - Attach a ZSS10 to hallway lights
 - Install a second ZSS10 without a load
 - Link the second ZSS10 to the hallway lights ZSS10 for a virtual 3-way



Lighting Load Enrollment

- When a device is enrolled it can be controlled from the software
- Clicking on the Lighting and Loads tab provides a summary with the current status of each load

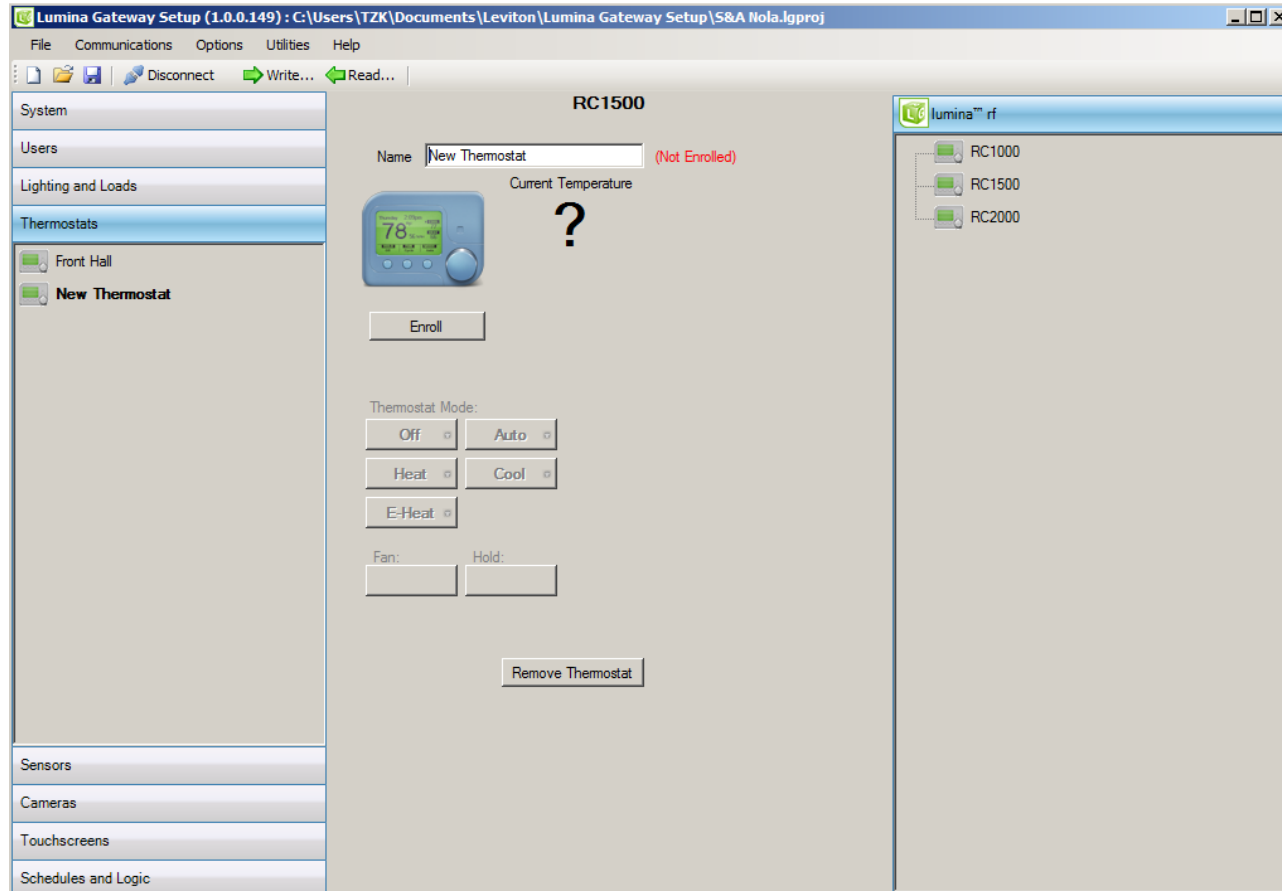


The screenshot shows the 'Lighting and Loads' summary table in the software. The table lists various lighting loads and their current status.

Light/Load	Status	Linked to	Technology	Version
Awards Displays	ON	<none>	ZigBee	1.00.00.00
Conference Room	OFF	<none>	ZigBee	1.00.00.00
Conference Room Entrance	ON	<none>	ZigBee	1.00.00.00
Engineering Hall	ON	<none>	ZigBee	1.00.00.00
Engineering Middle	ON	<none>	ZigBee	1.00.00.00
Engineering Hall Remote	ON	Engineering Hall	ZigBee	1.00.00.00
Foyer	ON	<none>	ZigBee	1.00.00.00
Front Conference Room	OFF	<none>	ZigBee	1.00.00.00
Front Hall	ON	<none>	ZigBee	1.00.00.00

Thermostat Creation

- Select Thermostat tab from the left-hand tree menu
- Add a thermostat from the panel on the right
 - Double click, right click or drag to thermostats on the left
- Write the name of the thermostat (Downstairs, Lobby, etc.)
- With the thermostat placed into learn mode, press “Enroll” in the software



Thermostat Enrollment

- When a thermostat is properly enrolled, it will generate the name in the tree menu
 - “Main Thermostat” is now displayed in the left-hand tree menu

- Clicking on the Thermostat tab provides a summary with the current status of each thermostat

- Clicking a particular thermostat (Main Thermostat) allows visualization and control over that zone

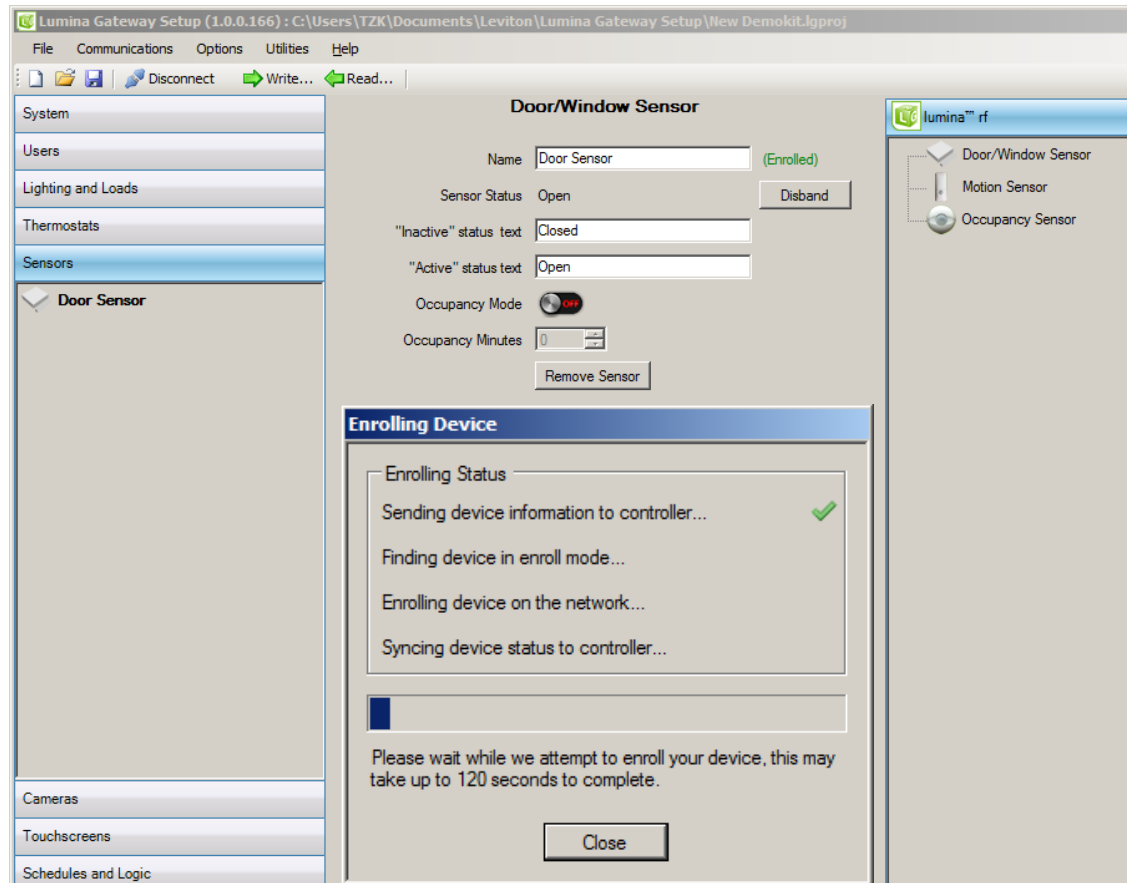
- Change modes or temperature set points



Thermostats											
Thermostat	Technology	Enrolled	Temp	%RH	Heat	Cool	Humid	Dehumid	Mode	Fan	Hold
Main Thermostat	ZigBee	(Enrolled)	79°	45%	62	82	-	-	Off	Cycle	Off
New Thermostat	ZigBee	(Not Enrolled)	?	-	?	?	-	-	?	?	?

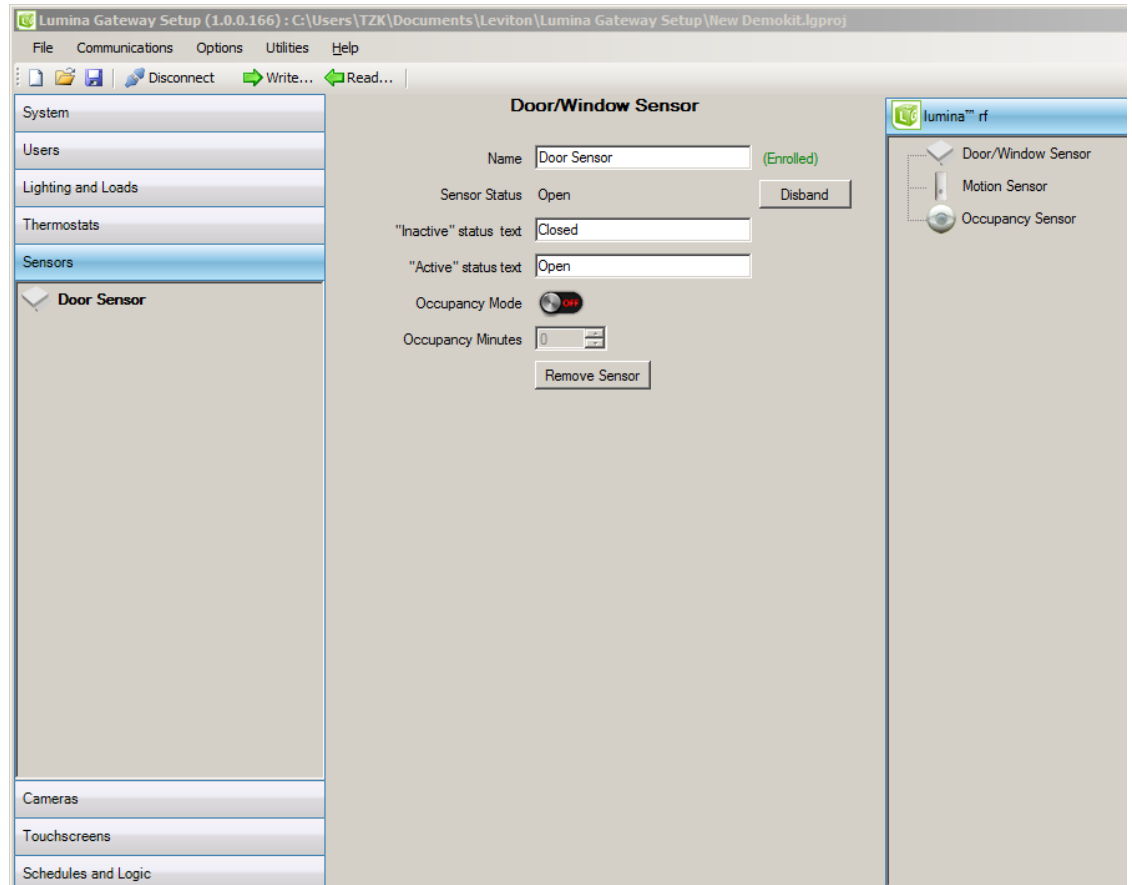
Sensors Creation

- Add a wireless sensor from the panel on the right
 - Double click, right click or drag to Sensors on the left
- Change the sensor name
- The text for the Active and Inactive states can be changed
 - Closed/Open, Up/Down, etc.
- With the sensor in learn mode, Click the Enroll button
 - Enrolling device pop-up will show writing, finding, enrolling, syncing, and then success.



Sensors Enrollment

- When a sensor is properly enrolled, it will generate the name in the tree menu
- Clicking on the Sensors tab provides a summary with the current status of each sensor



Cameras Creation

- Add a camera from the panel on the right
 - Double click, right click or drag to Camera on the left

- Change the camera name

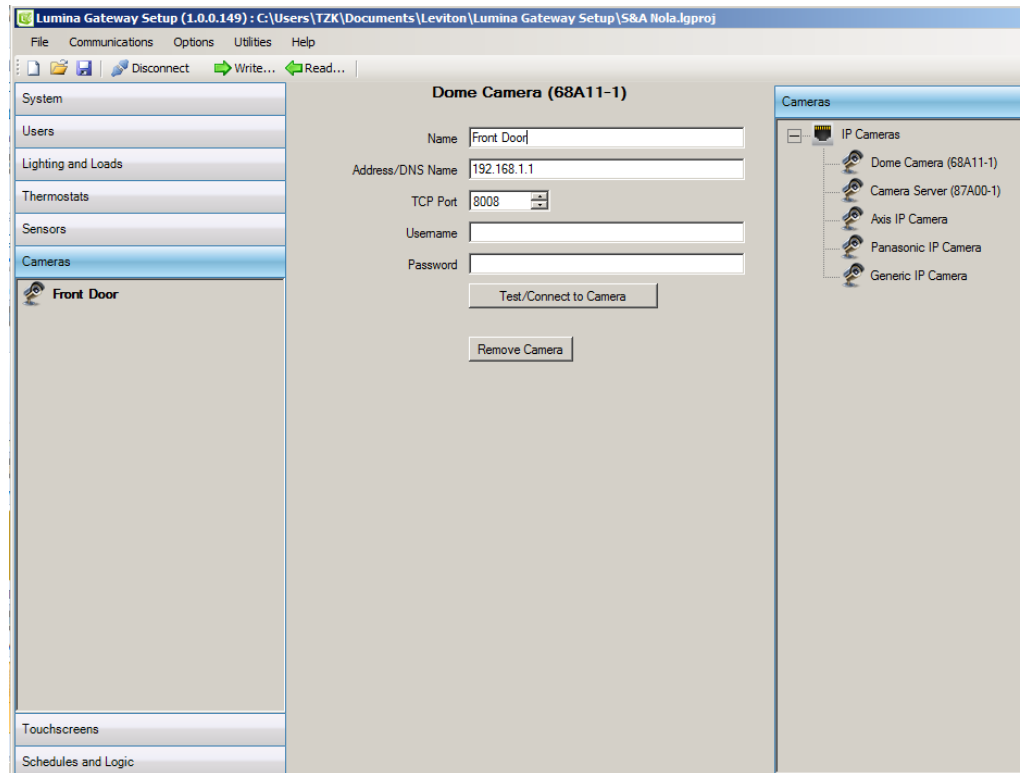
- Enter the IP/DNS Information

- If applicable, add username/password

- Review any additional options for the selected camera

- Test/connect to the camera

- NOTE: Camera settings are not transferred until the “Write configuration to the controller” option is executed



Touchscreen Creation in Software

- Touchscreens must be running 1.7 or later to work with a Lumina Gateway

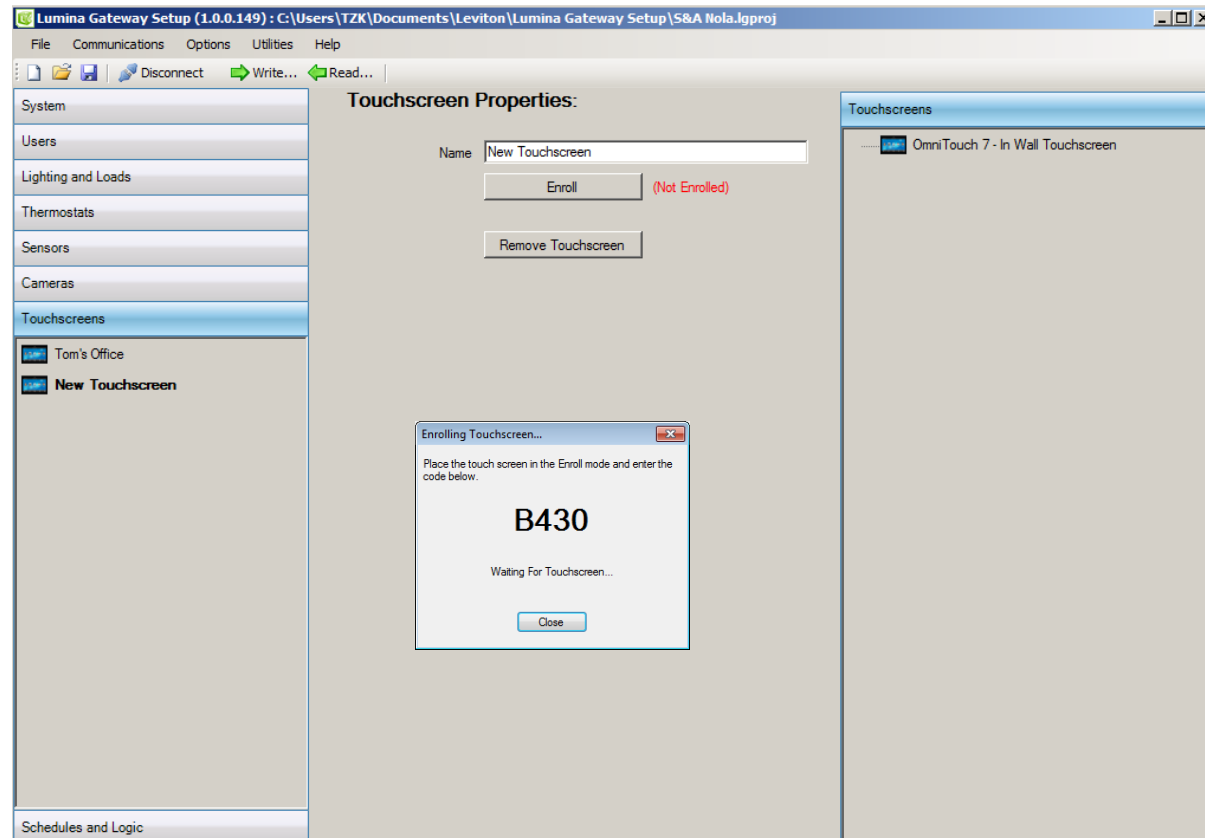
- Select Touchscreens from left-hand tree menu

- Add a touchscreen from the panel on the right
 - Double click, right click or drag to touchscreen on the left

- Change the touchscreen name

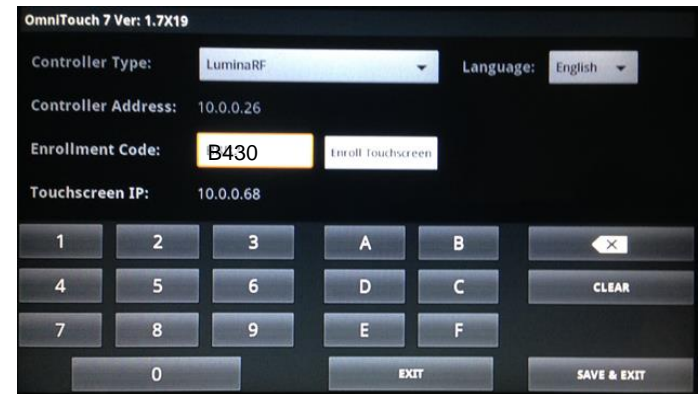
- Click enroll

- A 4-Digit ID will appear as a pop-up, write down the four character ID and go to the OmniTouch 7 physical location



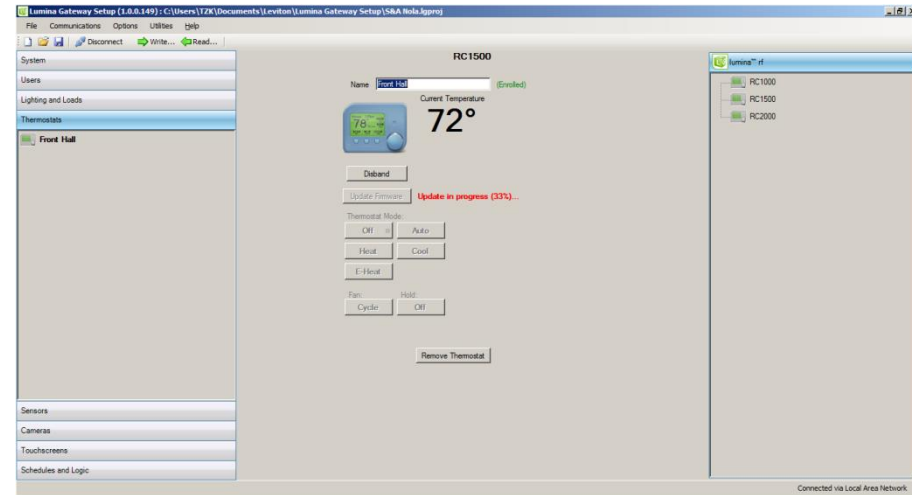
Touchscreen Creation at Touchscreen Location

- On the OmniTouch 7 Touchscreen, access the setup screen
- Change the controller type to Lumina Gateway
- Type the enrollment code
- Press Save & Exit on the touchscreen
- The OmniTouch 7 will connect to the Lumina Gateway
- Repeat process as necessary for multiple touchscreens



Updating Lumina RF Devices

- The Lumina RF will only learn and accept devices onto the mesh network that have been pre-approved
- The Lumina Gateway knows the current operating firmware for each Lumina RF Device
- Each Lumina Gateway Setup Software release contains the latest version of firmware for each Lumina RF device
- If a Lumina RF device firmware is outdated, the installer is prompted to update the firmware to allow the device to be used in the system
- If an update is not critical, the device will operate in the system and the update becomes optional
- To update firmware, an installer only has to hit update and the Lumina Gateway will provide status updates
- Note: some OTA updates can take 45+ minutes



Schedules + Logic

Lumina Gateway Eco-System

Automation and Objects

Automation Type

Actions

Screenshot of the Lumina Gateway Setup software interface. The window title is "Lumina Gateway Setup (1.0.0.114) : C:\Users\tsk\Documents\Leviton\Lumina Gateway Setup\DemoKit.lgproj". The interface shows a sidebar on the left with categories like System, Users, Lighting and Loads, Thermostats, Sensors, Cameras, Touchscreens, and Schedules and Logic. The "Schedules and Logic" section is expanded, showing "Energy Management" selected. The main window displays a "Schedule:" configuration dialog for "Energy Management". The dialog is divided into two sections: "Automation Type" and "Actions".

Automation Type:

- Schedule Name: Energy Management
- Frequency: Daily/Weekly
- Days: Mo, Tu, We, Th, Fr, Sa, Su (all checked)
- Time: At a specific time, 8:00 PM

Actions:

- Perform these actions:
- Appliance Module OFF
- Main Thermostat
 - Set Hold Mode To Off
 - Set Thermostat Mode To Auto
 - Set Fan Mode To Auto
 - Set Heat Setpoint To 62
 - Set Cool Setpoint To 78

Buttons: Remove Schedule

Bottom status: Connected via Local Area Network ...

Automation Types

Lumina Gateway Eco-System

Schedules and Logic: Schedule

- Name the schedule event
- Schedule types:
 - Daily
 - Weekly
 - Day of the month
 - Date
 - Specific Day
- Time options
 - Specific time
 - Sunrise +/-
 - Sunset +/-

Schedule:

Schedule Name

Mo Tu We Th Fr Sa Su

12 : 00 AM

Schedules and Logic: Activity

- Name the activity
 - Activities are a list of commands that are executed as a group (macro)
 - Activities are manually activated
 - Activities can be run from any other automation type

Activity Event:

Group Name

Schedules and Logic: Sensor Event

- Name the sensor event
- Choose a sensor
- Choose a sensor state
 - The action will run when the sensor changes to the defined state

Sensor Event:

Event Name

Sensor

State changes to

Schedules and Logic: Lighting/Load Event

- Name the lighting / load event
- Choose lighting or load device
- Choose a state
 - The terminology for the light/load follows the descriptions used during the device setup
 - The action will run when the lighting or load device changes to the defined state

Lighting/Load Event:

Event Name

Light/Load

State changes to

Schedules and Logic: Thermostat Event

- Name the thermostat event
- Choose a thermostat
- Choose a property or setting
 - Current temperature
 - Heat or cool set point
- Choose an event
 - Becomes greater than
 - Becomes equal to
 - Becomes less than
- Enter a temperature value

Thermostat Event:

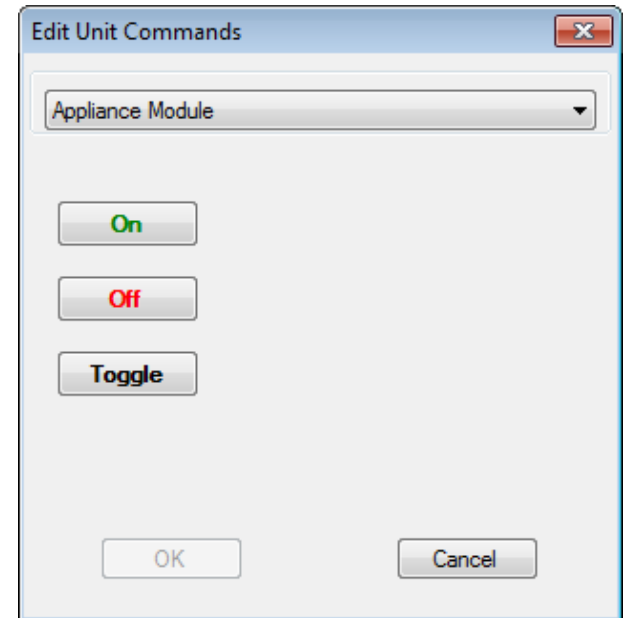
Event Name	<input type="text" value="New Thermostat Event"/>
Thermostat	<input type="text" value="Main Thermostat"/>
Property or Setting	<input type="text" value="Current Temperature"/>
Event	<input type="text" value="Becomes Greater Than"/>
Value	<input type="text" value="80"/>

Actions

Lumina Gateway Eco-System

Actions: Unit (Light or Load)

- Choose a Lighting or Load Device
- Choose a state
 - On
 - Off
 - Toggle
- Press OK



Actions: Thermostat

- Select a Thermostat
- **Choose an action(s)**
 - As a button is clicked, the action becomes active
 - Click on additional items to add commands
 - If an action is accidentally chosen, press reset and all items will gray back out
- **Example:**
 - Pressing OK in the slide to the left will add two commands
 - Heat setpoint 60
 - Cool setpoint 76
 - No lines will be added to adjust the Thermostat mode, fan or hold

Edit Thermostat Commands

Select Thermostat
Main Thermostat

Thermostat Mode:
Off Auto
Heat Cool
E-Heat

Heat Setpoint
60°

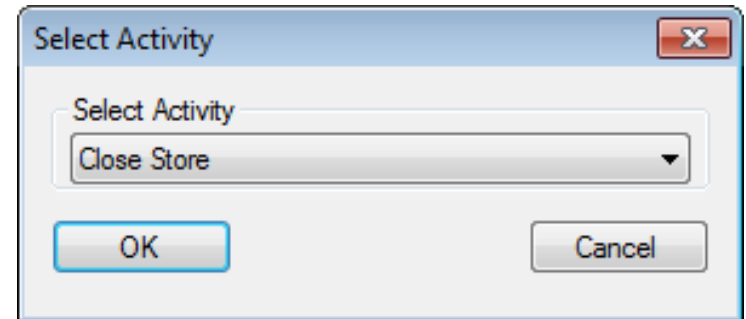
Cool Setpoint
76°

Fan: Hold:
On Off

OK Reset Cancel

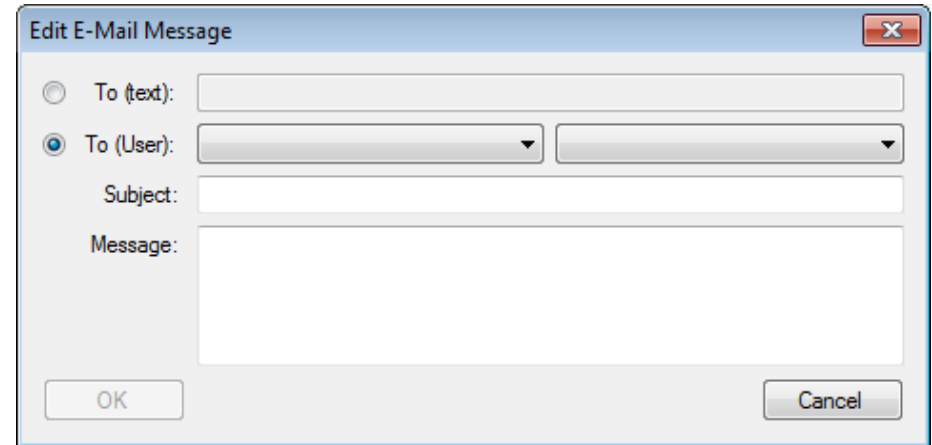
Actions: Activity

- Select an activity
 - “Close Store”
- Press OK
 - The activity will run



Actions: Email Message

- Free, automatic notification:
 - Motion Detection
 - Window/Door Opening/Closing
 - Light turning On/Off
- Enter an e-mail address or choose an e-mail address from the current user list
- Add a subject and message



The screenshot shows a dialog box titled "Edit E-Mail Message" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

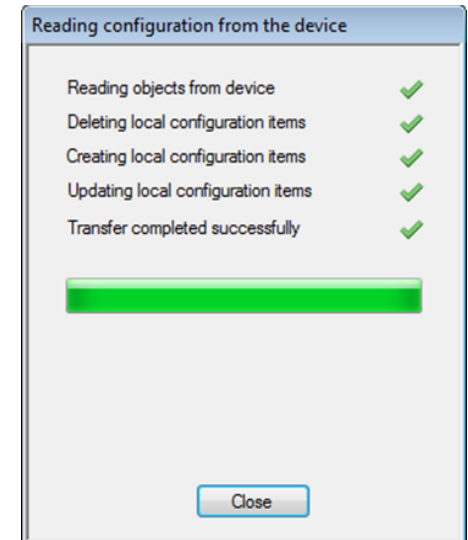
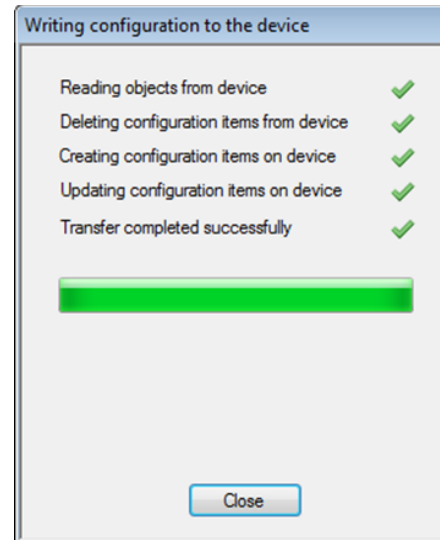
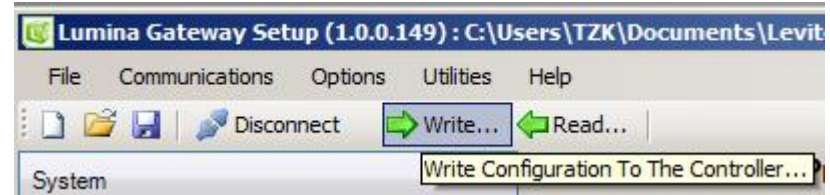
- To (text): A text input field.
- To (User): Two dropdown menus for selecting a user.
- Subject: A text input field.
- Message: A large text area for entering the message content.
- OK: A button at the bottom left.
- Cancel: A button at the bottom right.

Configuration Transfer

Lumina Gateway Eco-System

Reading Configuration

- Additions/Changes to the system configuration must be transferred from the setup software to the Lumina Gateway
- All information in the controller file is sent during transfers
- Use Menu “Write” option to place programming into the Lumina Gateway Controller
- Transfers can occur over a Local Area Network (LAN) or Leviton Cloud Service (LCS) connection
 - When on-site, it is recommended to use LAN connections due to the reduced amount of required encryption

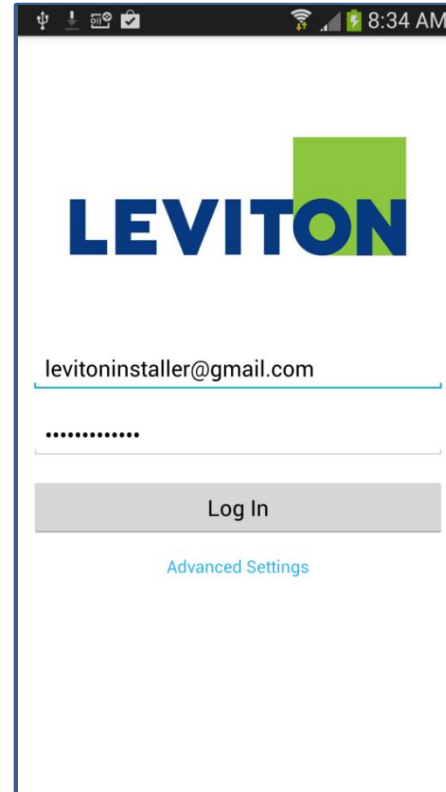


Connecting iOS and Android Apps

Lumina Gateway Eco-System

Connecting Apps

- iOS and Android (Free apps, no fees)
- Leviton Cloud Service makes connections simple, no DDNS or port forwarding required
- Add users in the Lumina Gateway
 - Register the User to LCS
 - Be certain to download to the Lumina Gateway after adding the User
- Download the free app
 - At the home screen, add the LCS account information
 - The app will connect automatically and download the Lumina Gateway configuration information

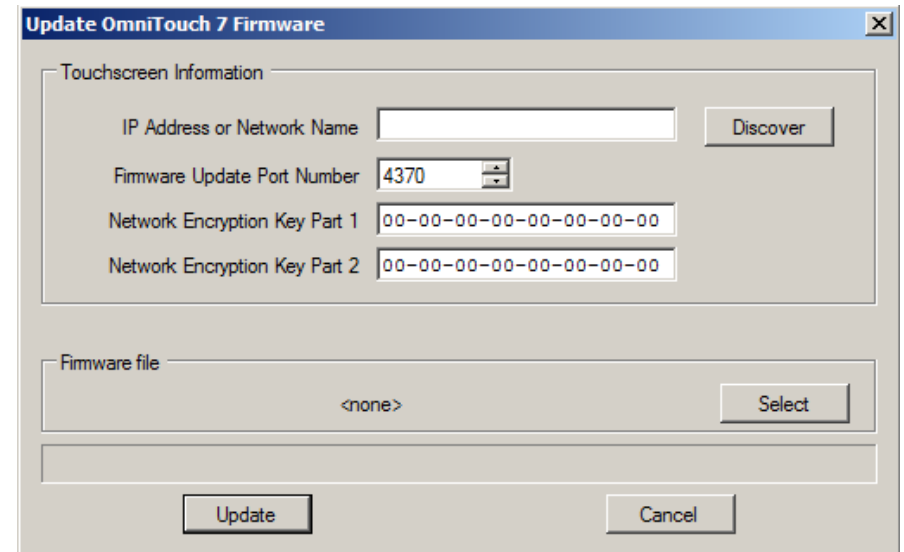
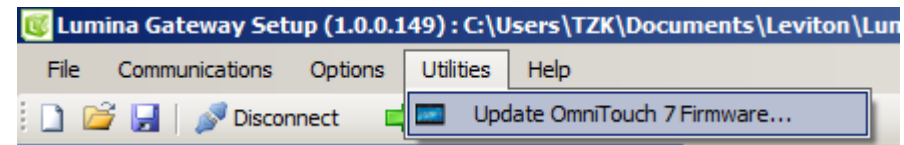


Updating OmniTouch 7 Firmware

Lumina Gateway Eco-System

Updating OmniTouch 7 Touchscreen Firmware

- 99A00-1 and 99A00-2 may connect to a Lumina Gateway eco-system.
- To Update firmware in setup software, use menu item “Utilities -> Update OmniTouch 7 Firmware”

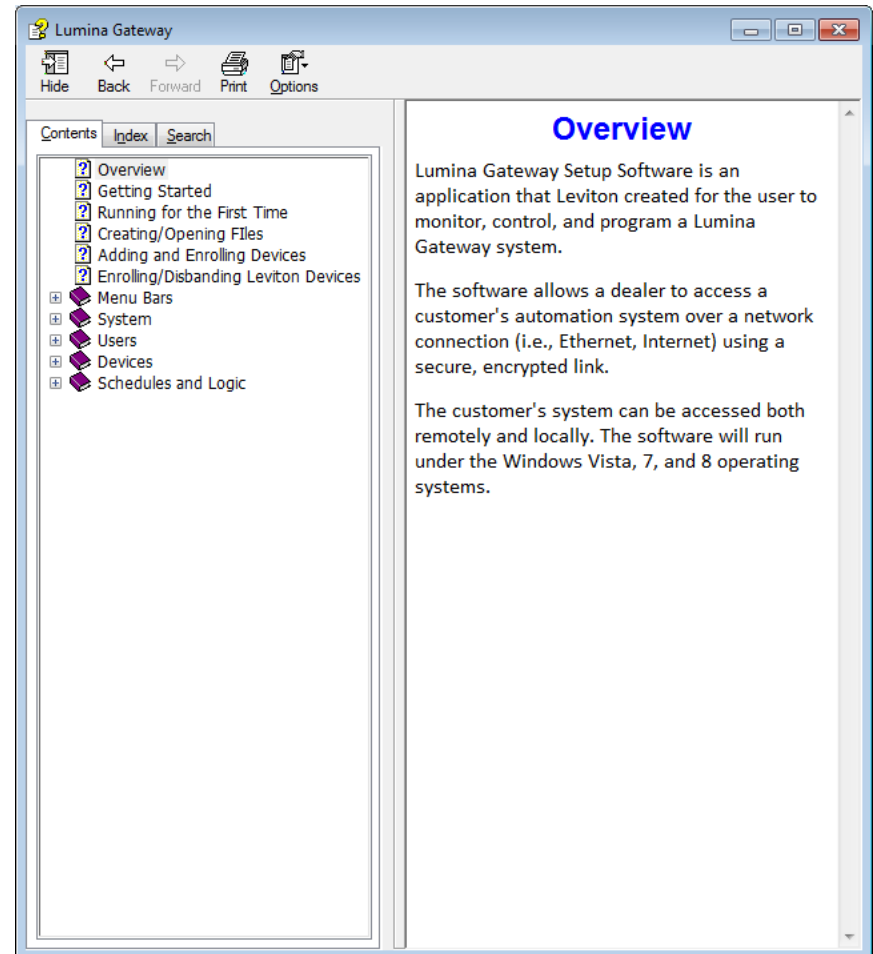


Help System in Software

Lumina Gateway Eco-System

Help / Assistance

- A comprehensive help system is built into the Lumina Gateway software and can be accessed prior to starting a new project, or in the midst of project creation
- Choose Help / Contents from menu structure
- E-mail SASupport@leviton.com or call 1-800-229-7256



FAQs

■ How is this different from the Omni and Lumina comprehensive systems?

- **“Comprehensive”.**

- The Omni/Lumina solution is a residential focused system considered the Swiss Army knife, bridging many protocols including hard-wired and wireless to include hundreds of connected devices
 - Steep learning curve
 - Integrated security
 - Residential focus, yet used in many different markets
- Lumina Gateway designed to include to create a small, wireless eco-system that is simple to program using free setup software, and accessed via a free app
 - Quick to train and install
 - Light commercial focused

■ Can I Connect Any ZigBee Device?

- **No.**

- ZigBee devices must be white listed for the Lumina Gateway database before they can be included into projects

Resources

Lumina Gateway Eco-System

Why was the Lumina Gateway Brought to Market?

- To provide automation and manual control over energy management sub-systems within a small business
- Energy Management is a hot, growing market as energy prices continue to rise
- Light commercial is fertile ground for retrofit opportunities
- The Lumina Gateway combined with Lumina RF family of products is the perfect solution to provide energy management solutions for 95% of retail, restaurants and small hotels

What are the Top “Talking Points?”

■ Comprehensive control over Micro Commercial Buildings

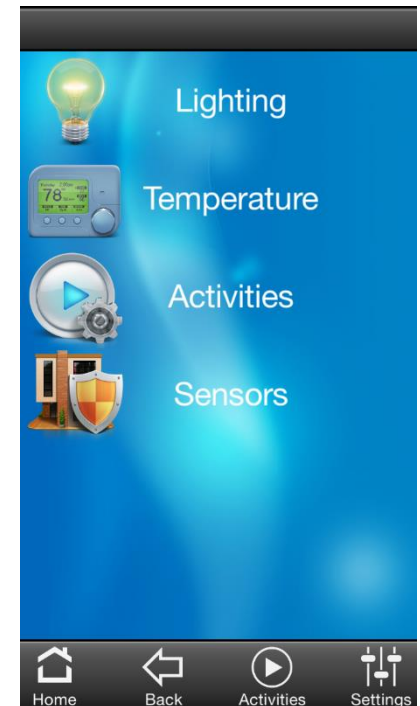
- Lighting, temperature/humidity, video surveillance, window coverings, etc.

■ Create a small Leviton eco-system:

- Light Switch, Plug-In Module, Heavy Duty Load Control Modules, Thermostats, Sensors, IP Camera
- Third-Party Window Coverings (Somfy)

■ Easy to install, easier to use

- Wireless eco-system is perfect for retrofits in small buildings
- Simple setup software and scheduling
- Free app for iOS/Android with zero fees
- Free email notification



Product Launch Materials

■ Product Bulletin

- Providing Overview + Applicable SKUs

■ Applications Guide

- Providing Vertical Markets + Layouts

■ Technical Data Sheets

- Gateway, Sensors, Switch, thermostats, touchscreen, etc

■ Demo Cases

- Coming soon, order part # DE821

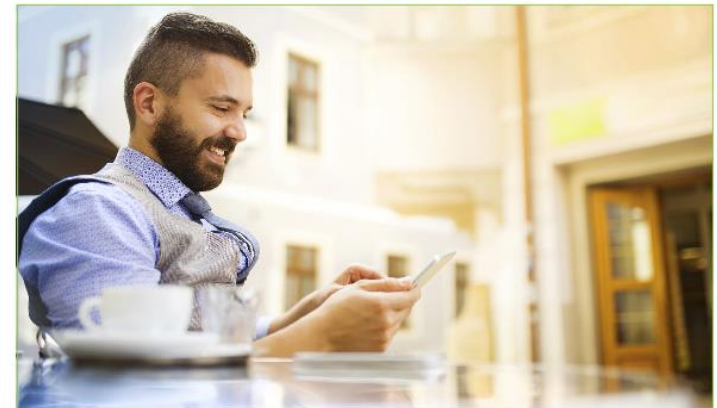
■ Leviton.com/Gateway website

- Includes need assistance/find dealer form
- Includes link to Cloud registration for installers
- Includes compatible products
- Includes all marketing materials

Product Bulletin for
Lumina Gateway

LEVITON®

Lumina Gateway



Micro Automation Saves Money!

Leviton's powerful wireless Lumina products ensure energy savings in new construction and retrofit, controlling lamps, fans, shades, pumps, and third-party window coverings, with an optimum range of 200 feet. The Gateway functions as an energy management coordinator, allowing for automated control of loads and remote control from a tablet/smartphone app.

Features

- Email or SMS text (via email) based on event
- Includes two-way Lumina RF transceiver
- Connects to Leviton Cloud Services for remote access

How does it work?

Connect all the devices in a retail environment, restaurant and more for energy savings and improved convenience.



LEVITON

Lumina RF Applications Guide

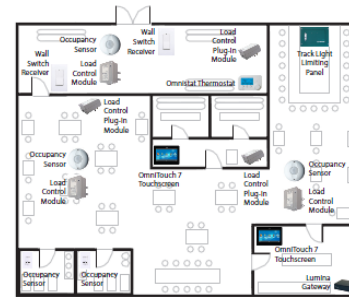


Lumina™ RF Solutions Guide

Solutions Guide for Smart Energy Management Automation



Restaurant Control Solution



Wireless for Restaurants

- Utilize slider bars to adjust lighting load levels from 0-100%
- Easy to use OmniTouch 7 Touchscreen has a Smartphone inspired interface for quick employee training and comprehension
- Reduce HVAC use and high draw appliance usage across the restaurant while providing centralized control
- View crisp IP surveillance video footage without any additional hardware
- Create an ambient atmosphere for restaurant, bar and VIP areas with dimming capabilities without the cost of a separate module
- Control lighting and security for VIP areas from the OmniTouch 7 Touchscreen
- IP surveillance camera integration allows management to confirm proper operation including employee attendance, proper opening/closing schedules, and safety issues
- Access footage in the store office from the OmniTouch 7 Touchscreen, or remotely from a tablet or smart device for flexible management abilities.
- LED READY low voltage occupancy sensors control 0-10V lighting loads
- Remote access for up to 10 locations using the free iOS or Android app to easily monitor and adjust lighting loads, temperatures, and view live surveillance footage from a smartphone or tablet

List of Equipment

	OmniTouch 7 Touchscreen 99A00-2	2
	Lumina Gateway LU741-000	1
	Track Light Limiting Panel xxxxxx-xxxx*	1
	Load Control Plug-In Module 89A00-1/2B	3
	Load Control Module 73A00-4/5/6A or 73A00-3/2B (30A)	3
	OmniStat 2 Thermostat xx00M-HGB*	1
	Ceiling Mount PIR Occupancy Sensor, 450 sq ft Z5C04-1AW	3
	Wall Switch Multi-Technology Occupancy Sensor OS3MT-GCW	2
	Lumina RF Decora Wall Switch Receiver Z5S10-1AW	2

*See data sheet for part number information and color availability



Questions?

Thank You

Leviton.com

