

SOMFY DIGITAL NETWORK™ POWER OVER ETHERNET (PoE) GATEWAY



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I. OVERVIEW

The Somfy Digital Network™ Power over Ethernet (PoE) Gateway is a low-voltage power distribution and network-connected module that utilizes PoE technology to power and control 24V DC RS485 Motors.

The device supports both Somfy Synergy™ API and CoAP Digital Building API compatible with Molex Transcend® Network Connected System.

REQUIREMENTS

SOFTWARE

- Somfy SDN PoE Gateway Application
 - *When possible, install as Administrator – Download the latest version at: <https://www.somfypro.com/services-support/software>
- Windows 7 PC or higher (firewalls must be disabled while using)

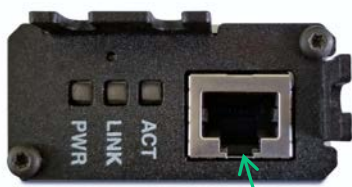
HARDWARE

- Unshielded Twisted CAT-5e or higher TIA-568B with Plastic RJ-45 Connectors
 - PowerWise™ 1G 4PPoE Indoor/Outdoor Cable recommended
- Power over Ethernet Switch (Must support IEEE 802.3bt & LLDP)
 - Cisco Catalyst® CDB-8U Switch with Cisco Power Supply: CDB-MNT-FLEX-C14 (Non-Plenum) or CDB-MNT-FLEX-DIR (Plenum)
 - Cisco Catalyst® 3850 Switch with Cisco Power Supplies: C3KX-PWR-715WAC and C3KX-PWR-1100WAC
- SDN Power over Ethernet Gateway
 - Gateway #1860326
 - Gateway & Motor Adaptor Kit #1870445 (Includes Motor Adaptor #9025010)
- PoE Gateway to Motor Adaptor
 - PoE Gateway to Motor Adaptor #9025010 (Included with Gateway Kit)
 - PoE Gateway to Motor & Keypad Adaptor #9025011 (Not included with Gateway)
- SDN Low-voltage Motor Cable
 - Non-Plenum Rated US: #9020126 Canada: #9020452
 - Plenum Rated US: #9020127 Canada: #9020453
- SDN RS485 DC Motor with Data & Power Pigtail
 - Sonesse® 30 [ST-30] DC Motor Data & Power Pigtail #9020261 (Not included with Motor)
 - Sonesse® ULTRA 50 [ST-50] DC Motor Data & Power Pigtail #9020004 (Included with Motor)
 - DC Drapery Adaptor for PoE Gateway #9025012 (Included with Irismo Enclosure Kit #1870282)

OPTIONAL HARDWARE

- PoE Gateway Motor Daisy Chain Adaptor #9020451

CONNECTIONS & LEDs



Ethernet Input

Power & Data from PoE Switch

LED BEHAVIOR:

ACT
Solid Green

LINK
Blinks Amber

POWER
Solid Green



SDN Output

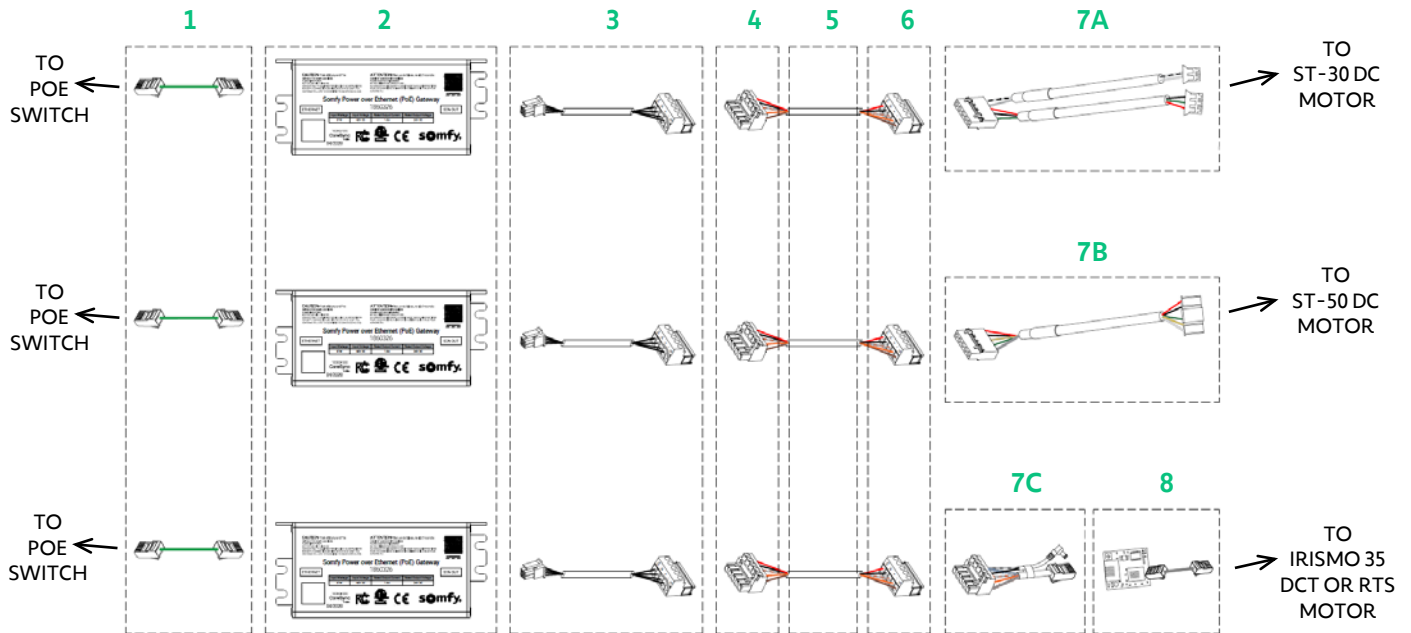
Power & Data to Motors

II. INSTALLATION

MOUNTING & POWER

The PoE Gateway receives power through the Power over Ethernet Switch.
Mount the Gateway on either wood or drywall.

BASIC WIRING FOR OPERATION

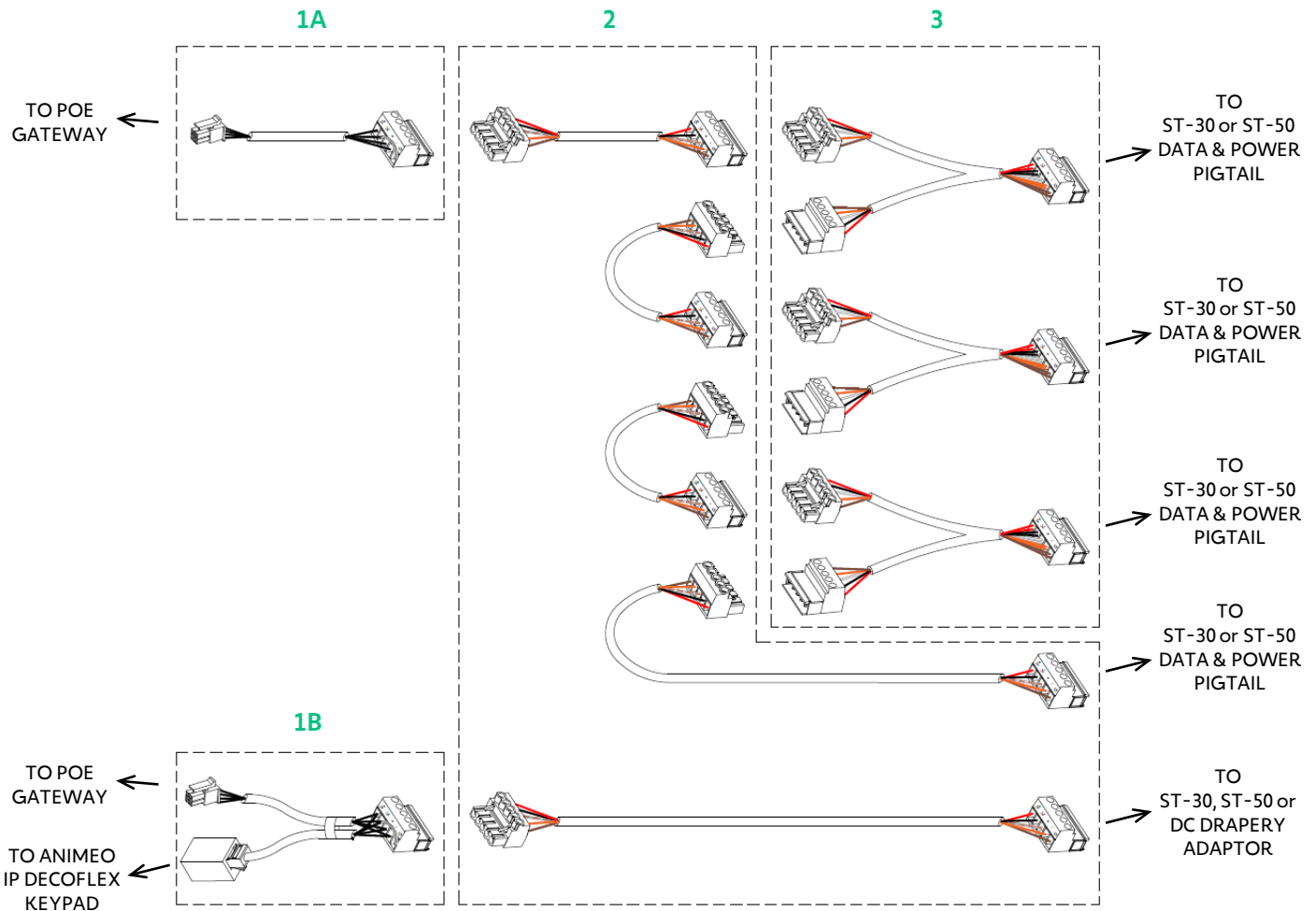


1. **NETWORK CABLE** Unshielded Twisted CAT-5e or higher TIA-568B with Plastic RJ-45 Connectors
2. **PoE GATEWAY** #1860326
3. **PoE GATEWAY TO MOTOR ADAPTOR** #9025010
4. **FEMALE WEIDMULLER CONNECTOR** #9025113
5. **SDN LOW-VOLTAGE MOTOR CABLE** Non-Plenum #9020126 or Plenum #9020127
6. **MALE WEIDMULLER CONNECTOR** #9020743 (Included with ST-30 & ST-50 Data & Power Pigtails)
7. **DC MOTOR DATA & POWER PIGTAIL**
 - A. **SONEESSE 30 [ST-30] DC MOTOR DATA & POWER PIGTAIL** #9020261
 - B. **SONESSE ULTRA 50 [ST-50] DC MOTOR DATA & POWER PIGTAIL** #9020004
 - C. **DC DRAPERY ADAPTOR FOR POE GATEWAY** #9025012
8. **RS485 MODULE FOR DRAPERY MOTORS**
 - **RS485 MODULE FOR DRAPERY MOTORS [MODULE]** #1811129
 - **SDN IRISMO 24V MINI DC ENCLOSURE KIT [MODULE, ADAPTOR & ENCLOSURE]** #1870282

* Visit www.somfysystems.com for advanced Wire Details with limitation, component and purchasing information.

OPTIONAL WIRING FOR OPERATION

Add a Keypad or daisy chain up to four Motors per PoE Gateway.



1. PoE GATEWAY MOTOR ADAPTOR

- A. PoE Gateway to Motor Adaptor #9025010
- B. PoE Gateway to Motor & Keypad Adaptor #9025011

2. SDN LOW-VOLTAGE MOTOR CABLE & WEIDMULLER CONNECTORS

3. PoE GATEWAY MOTOR DAISY CHAIN ADAPTOR #9020451

* *Irisimo Motors are not compatible with the Daisy Chain Adaptor - Limit (1) Drapery Motor per PoE Gateway.*

* *Visit www.somfysystems.com for advanced Wire Details with limitation, component and purchasing information.*

III. SET UP

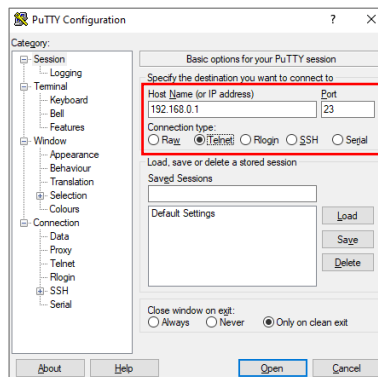
CISCO SWITCH CONFIGURATION

* Cisco switch should be programmed by the Network Administrator. Contact Cisco for advanced support with switch configuration.

1. Download PuTTY software: <https://www.putty.org/>

2. Open the PuTTY Configuration software

- Select the **Telnet** radio button
- In the **Host Name (or IP address)** field, enter the IP address of the Cisco switch
NOTE: Obtained IP by the Network Administrator
- In the **Port** field, enter **23**
- Click *Open*



3. In the PuTTY Terminal under User Access Verification –

- Type the switch Username, then press Enter [by default, the Username is “cisco”]
- Type the switch Password, then press Enter [by default, the Password is “cisco” and will not appear while typed]

```
User Access Verification
Username: cisco
Password:
Switch#
```

c. Listed in the PuTTY Terminal are the following lines highlighted in **BLACK**. Next to each line, type the exact commands in **GREEN**, then press Enter to move to the next line:

- Switch#**, type “**config t**”, then press Enter
- Switch (config) #**, type “**interface range Fa1/0/1-8**”, then press Enter
NOTE: The above command will vary according to the Cisco switch model and ports available
- Switch (config-if-range) #**, type “**no storm-control multicast level 50.00**”, then press Enter
- Switch (config-if-range) #**, type “**no storm-control unicast level 50.00**”, then press Enter
- Switch (config-if-range) #**, type “**no storm-control broadcast level 50.00**”, then press Enter
- Switch (config-if-range) #**, type “**end**”, then press Enter
-Continue..... **Switch#**, type “**wr**”, then press Enter

```
Switch#wr
Building configuration...
[OK]
```

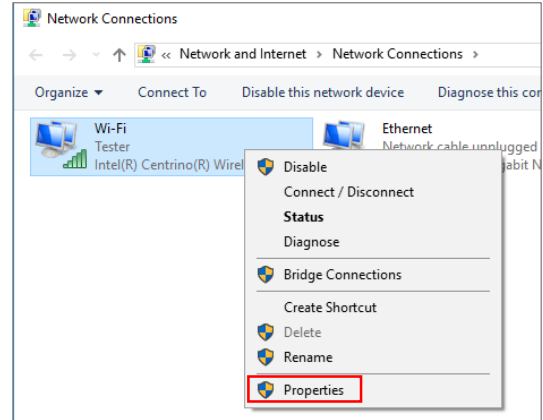
-Continue..... **Switch#**, type “**config t**”, then press Enter
- Switch (config) #**, type “**coap proxy**”, then press Enter
- Switch (config-coap-proxy) #**, type “**stop**”, then press Enter
- Switch (config-coap-proxy) #**, type “**exit**”, then press Enter
- Switch (config) #**, type “**no coap proxy**”, then press Enter
- Switch (config) #**, type “**no ip igmp snooping**”, then press Enter
- Switch (config) #**, type “**exit**”, then press Enter
-Continue..... **Switch#**, type “**wr**”, then press Enter

```
Switch#wr
Building configuration...
[OK]
```

Cisco Switch Configuration is now complete

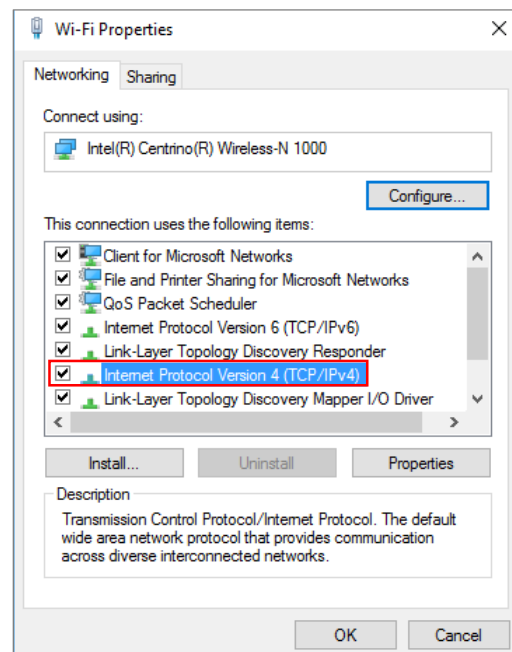
COMPUTER SETTINGS

NOTE: The commissioning computer, dedicated control server on-site or third-party control system may require setting a static IP address. Be advised that some routers may present a Gateway discovery issue when the Multicast Discovery device is set to a static IP. Coordinate with the Network Administrator for the appropriate network settings & requirements. Allowing dynamic IP addresses or setting MAC address reservations may resolve this issue.



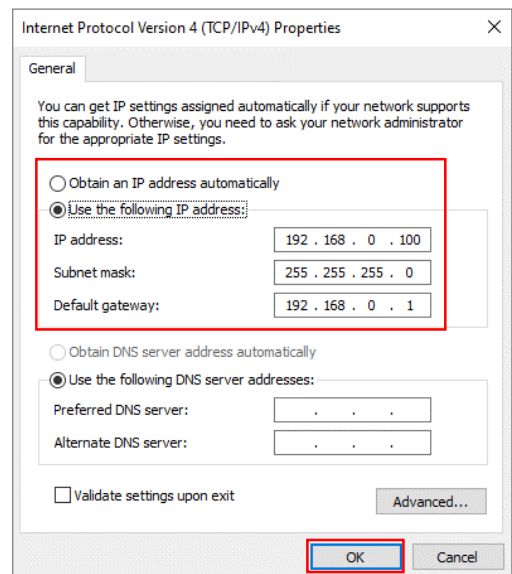
If a static IP address is required, obtain the IP address from the Network Administrator.

1. Connect a CAT-5e cable to the computer ethernet port and network switch on the same network as the PoE Gateway (or connect over Wi-Fi on the same network)
2. Go to the **Network and Sharing Center**, then open **Change Adapter Settings**
3. Select the appropriate network adapter, then open **Properties** in the drop-down
4. Select **Internet Protocol Version 4 (TCP/IPv4)**, then click **Properties**



5. Select the **Use the following IP address** radio button, then enter the addresses provided by the Network Administrator
6. Click **OK** on the two open Properties screens
7. Upon completion of PoE Gateway commissioning and testing, repeat Step 4 to revert previous settings
 - Select the **Obtain an IP address automatically** radio button
 - Click **OK** on the two open Properties screens

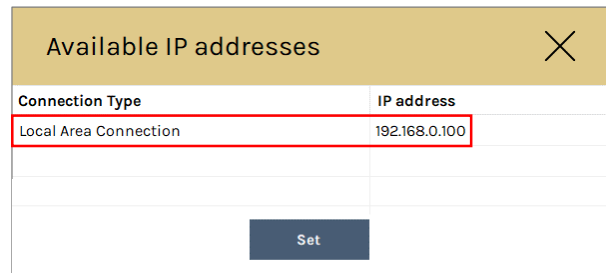
Computer Settings are now set for discovering PoE Gateways



APPLICATION SETTINGS

NOTE: Coordinate with the Network Administrator to confirm the appropriate network settings & requirements.

1. Upon initial launch of the Somfy PoE Gateway Application, the *Available IP addresses* window will display – Select the applicable Ethernet or Wi-Fi *Connection Type* and *IP address* to discover all PoE Gateways on the same network, then click **Set**.

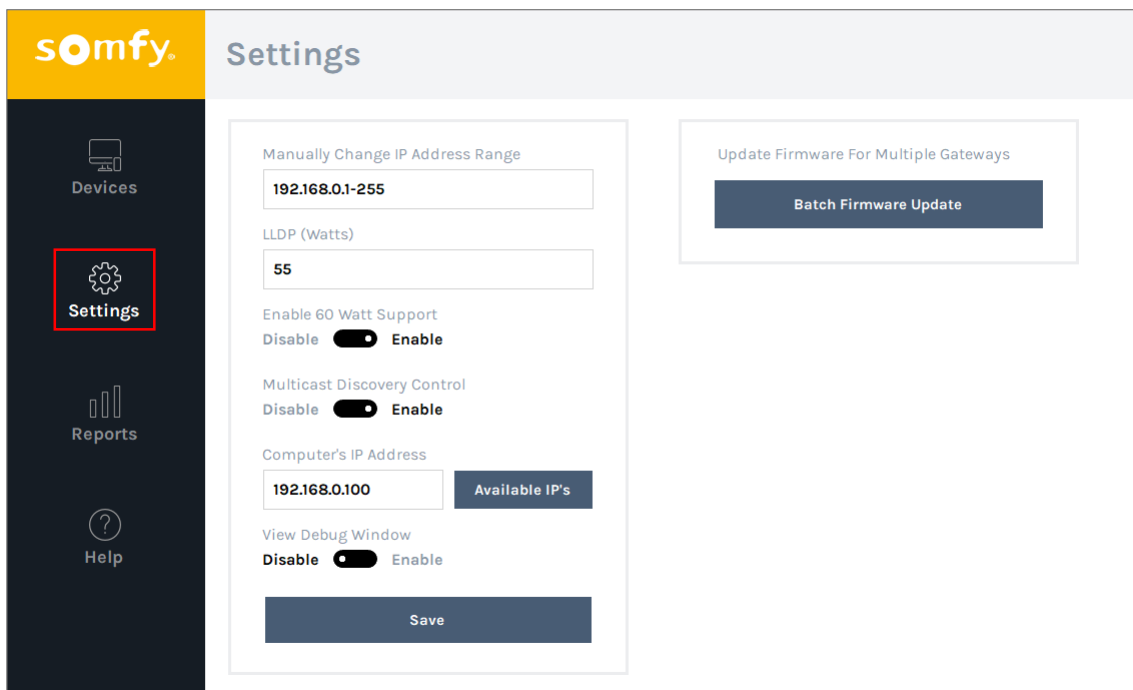


The 'Available IP addresses' window is a modal dialog with a gold header and a close button (X) in the top right. It contains a table with two columns: 'Connection Type' and 'IP address'. The first row is highlighted with a red border and contains 'Local Area Connection' and '192.168.0.100'. Below the table is a dark blue 'Set' button.

Connection Type	IP address
Local Area Connection	192.168.0.100

Set

2. The Main Application window will display – Click **Settings** in the left pane to open the *Settings* page.



The 'Settings' page features a dark sidebar on the left with the Somfy logo at the top. The sidebar contains icons for 'Devices', 'Settings' (highlighted with a red box), 'Reports', and 'Help'. The main content area is titled 'Settings' and contains several configuration sections: 'Manually Change IP Address Range' with a text input field containing '192.168.0.1-255'; 'LLDP (Watts)' with a text input field containing '55'; 'Enable 60 Watt Support' with a toggle switch set to 'Enable'; 'Multicast Discovery Control' with a toggle switch set to 'Enable'; 'Computer's IP Address' with a text input field containing '192.168.0.100' and an 'Available IP's' button; and 'View Debug Window' with a toggle switch set to 'Enable'. A large dark blue 'Save' button is at the bottom of the settings area. To the right, there is a separate box titled 'Update Firmware For Multiple Gateways' with a 'Batch Firmware Update' button.

3. Modify the following Application Settings:
 - **Manually change the IP Address Range:** Search for Gateways in a specified IP range [ex:192.168.0.1–255]
 - **LLDP (Watts):** Only change if using a 100 Watt switch
 - **Enable 60 Watt Support:** Set to *Enable*
 - **Multicast Discovery Control:** Set to *Enable*
 - **Computer's IP Address:** Indicates the Multicast Discovery IP address of the commissioning computer and must be later assigned the control server on-site or third-party control system IP address to communicate with specific Gateways
 - **Available IP's:** Opens the Available IP addresses window (shown above)
 - **View Debug Window:** Set to *Enable* when requested by Somfy Support for diagnostics
 - **Batch Firmware Update:** See APPENDIX A of this guide to perform Gateway firmware updates
4. Click **Save** to apply all settings.

Application Settings are now set for discovering PoE Gateways and programming Motors

IV. COMMISSIONING

GATEWAY DISCOVERY

1. Click the **Magnifying Glass** at the top of the Devices page to start discovery.
 - The quantity of Gateways discovered will display
 - Gateways with Motors connected will appear first in the list, followed by Gateways without Motors connected
2. Use the **Sort By** drop-down to filter discovered Gateways by IP Address, Gateway Name or Gateways with Motors connected.

IP Address	Control	
SomfyGateway 192.168.0.102 MAC: 04:91:62:68:ef:20	Static <input checked="" type="checkbox"/> Dynamic <input type="checkbox"/> ⬆️ ⬇️ ⬇️ ⬆️ Groups MC1.6.3.16.17 ⚙️	
Motor Labels	Control	ID
Motor 1	Intermediate Positions ⬆️ ⬇️ ⬇️ ⬆️	067071
Motor 2	Intermediate Positions ⬆️ ⬇️ ⬇️ ⬆️	068A80
Motor 3	Intermediate Positions ⬆️ ⬇️ ⬇️ ⬆️	068AA7
Motor 4	Intermediate Positions ⬆️ ⬇️ ⬇️ ⬆️	0667B4

GATEWAY CONFIGURATION

IP Address	Control
SomfyGateway 192.168.0.102 MAC: 04:91:62:68:ef:20	Static <input checked="" type="checkbox"/> Dynamic <input type="checkbox"/> ⬆️ ⬇️ ⬇️ ⬆️ Groups MC1.6.3.16.17 ⚙️

1. Click the **Green Triangle** to collapse or expand details of each Gateway discovered.
 - The triangle color indicates Gateway connection status: GREEN = online, RED = offline
2. Edit the "SomfyGateway" name field to identify each individual Gateway.
3. Each Gateway will display an *IP Address* and *MAC Address* – Switch the **Static / Dynamic** toggle button to set the Gateway to a static or dynamic IP address.
4. Use the *Gateway Control* buttons to control all motors connected to the PoE Gateway – See Motor Control section of this guide.
5. Click the **Groups** button to assign motors to Groups – See Motor Group Assignment section of this guide.
6. The numbers to the right of the Groups button indicate the Gateway firmware version.
7. Click the **Gear** for individual *Gateway Settings* which includes the following options:
 - **Remove** – Removes Gateway from the current Devices page (Gateway will reappear in next Search if connected)
 - **Restart** – Power cycles the Gateway
 - **Wink** – Jogs all tubular Motors connected to the Gateway with a short up/down movement
 - **Control Grouped Motors** – Opens the Control Grouped Motors window to move specific groups of Motors – See Motor Control section of this guide
 - **Upgrade Firmware** – See APPENDIX A of this guide to perform Gateway firmware updates

MOTOR CONFIGURATION

NOTE: Prior to configuring Motors with the PoE Gateway, Motor end limits must be set.

Intermediate Positions previously set with SDN Motor Configuration Software or RS485 Setting Tool are supported.

- The Motor Labels field displays Motors (1-4) on this Gateway – Click a Motor from the column and edit the name to identify each individual Motor.
 - ID indicates the factory Node ID assigned to each individual Motor – This unique ID cannot change
- Click the **Intermediate Positions** button to open the *Intermediate Position Settings* window.

Motor Labels		Control	ID
Motor 1	Intermediate Positions	⬆️ ⬇️ ⓧ %	067071
Motor 2	Intermediate Positions	⬆️ ⬇️ ⓧ %	068A80
Motor 3	Intermediate Positions	⬆️ ⬇️ ⓧ %	068AA7
Motor 4	Intermediate Positions	⬆️ ⬇️ ⓧ %	0667B4

Setting Intermediate Positions

- Use the Motor Controls to execute motor movements:
 - Up arrow moves the individual Motor to the upper limit
 - Down arrow moves the individual Motor to the lower limit
 - X stops the individual Motor from moving
 - % moves the individual Motor to a specified percent or Intermediate Position
- Program up to 16 positions between 0 and 100%:
 - Get retrieves all recorded Intermediate Positions
 - Set records the current Motor position to a selected slot
 - Goto moves Motor to selected Intermediate Position
 - Erase removes an individual recorded Intermediate Position
 - Erase All removes all recorded Intermediate Positions

Position	Pulse	Percent	Position	Pulse	Percent
<input type="radio"/> 1	300	25	<input type="radio"/> 9	None	None
<input type="radio"/> 2	600	50	<input type="radio"/> 10	None	None
<input checked="" type="radio"/> 3	900	75	<input type="radio"/> 11	None	None
<input type="radio"/> 4	None	None	<input type="radio"/> 12	None	None
<input type="radio"/> 5	None	None	<input type="radio"/> 13	None	None
<input type="radio"/> 6	None	None	<input type="radio"/> 14	None	None
<input type="radio"/> 7	None	None	<input type="radio"/> 15	None	None
<input type="radio"/> 8	None	None	<input type="radio"/> 16	None	None

- Test the programmed Intermediate Positions:
 - Select a **Position** radio button (1-16)
 - Click the **Goto** button to move the Motor to the selected Intermediate Position
 - OR
 - Click the **%** button
 - Select the **Intermediate Position** radio button
 - From the drop-down, select a desired Intermediate Position (1-16)
 - Click the **Start** button to move the Motor to the selected Intermediate Position

MOTOR GROUP ASSIGNMENT

NOTE: Each PoE Gateway has a maximum of 5 Groups and allows up to 16 Motor Group assignments.

1. Click **Groups** on the Devices page to open the *Group Priority* window.

The screenshot shows the Somfy Gateway configuration interface. On the left is a dark sidebar with navigation icons for 'Devices', 'Settings', 'Reports', and 'Help'. The 'Devices' icon is highlighted with a red box. The main content area shows the configuration for a gateway with IP 192.168.0.102. A 'Groups' button is highlighted with a red box. Below this, a table lists four motors with their labels and control options.

Motor Labels	Control	ID
Motor 1	Intermediate Positions	067071
Motor 2	Intermediate Positions	068A80
Motor 3	Intermediate Positions	068AA7
Motor 4	Intermediate Positions	0667B4

The 'Group Priority' window shows a grid for assigning motors to groups. The columns are Motor 1, Motor 2, Motor 3, and Motor 4. The rows are Group 1 through Group 5. A red box highlights the Motor 1 column. At the bottom are 'Control Grouped Motors' and 'Save' buttons.

GROUP	Motor 1	Motor 2	Motor 3	Motor 4
1 Group 1	1	2	3	4
2 Group 2	-	1	-	-
3 Group 3	2	-	1	1
4 Group 4	3	1	2	2
5 Group 5	4	3	2	1

2. The Group field displays Groups (1-5) for this Gateway – Click a **Group** from the column and edit the name to identify each individual Group.
3. The Motor Label of each connected Motor is displayed as programmed and in order listed on the Devices page – Use the drop-down to assign Motors to a Group using Priority (1-4).
 - In the example above, Group 1 will move "Motor 1" first, "Motor 2" second, "Motor 3" third, and "Motor 4" last
 - A red dash will unassign the Motor from a Group

NOTE: The PoE Gateway allocates power to Motors allowing (2) Sonesse 30 RS485 Motors to operate at a time and only (1) Sonesse ULTRA 50 DC RS485 or (1) Irismo 35 Mini DC to operate at a time

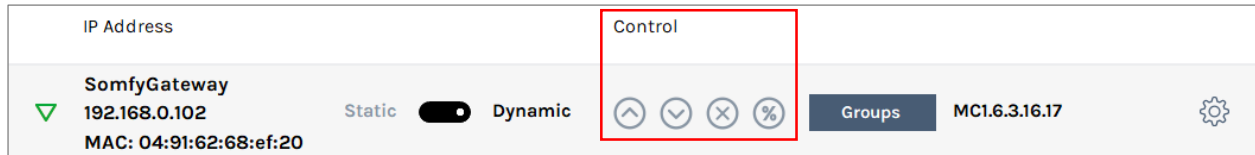
4. Click **Save** to set all priorities.

MOTOR CONTROL

GATEWAY CONTROL OF MOTORS:

Use the *Gateway Control* buttons to control all motors connected to the PoE Gateway in order of Motor Node ID:

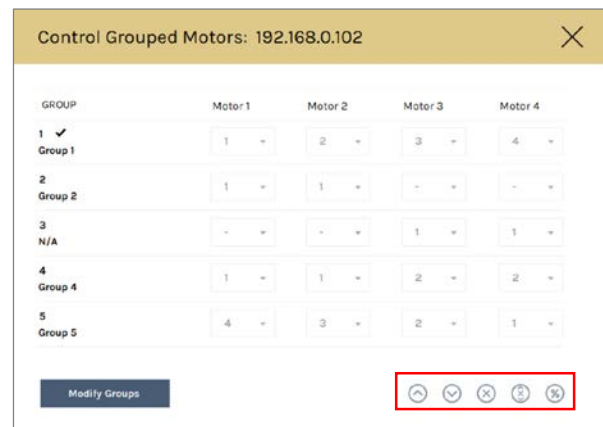
- Up arrow moves all connected Motors to the upper limit
- Down arrow moves all connected Motors to the lower limit
- X stops all connected Motors from moving
- % moves all connected Motors to a specified position



NOTE: By default, all connected Motors are assigned to this Group and Motors will move in order of Motor Node ID. The PoE Gateway allocates power to Motors allowing (2) Sonesse 30 RS485 motors to operate at a time and only (1) Sonesse ULTRA 50 DC RS485 or (1) Irismo 35 Mini DC to operate at a time.

GROUP CONTROL OF MOTORS:

1. Click the *Gear* or the *Groups* button on the Devices page.
2. Click *Control Grouped Motors*.
3. Select a *Group* (1-5). Use the *Group Control* buttons at the bottom of the window to control the Group:
 - Up arrow moves the Grouped Motors to the upper limit in order of Priority
 - Down arrow moves the Grouped Motors to the lower limit in order of Priority
 - X stops all moving Motors from moving (remaining Motors do not move)
 - Stop and Align stops Motors that are in motion then moves (aligns) remaining Motors to that position in order of Priority
 - % moves the Grouped Motors to a specified percent or Intermediate Position in order of Priority

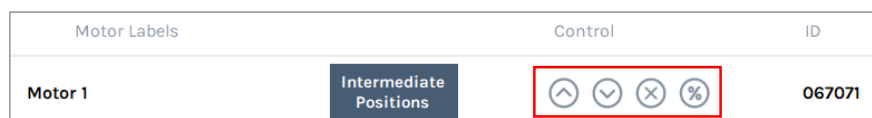


NOTE: Use Control Grouped Motors for testing motor movements; no need to save changes unless modifying Groups.

INDIVIDUAL CONTROL OF MOTORS:

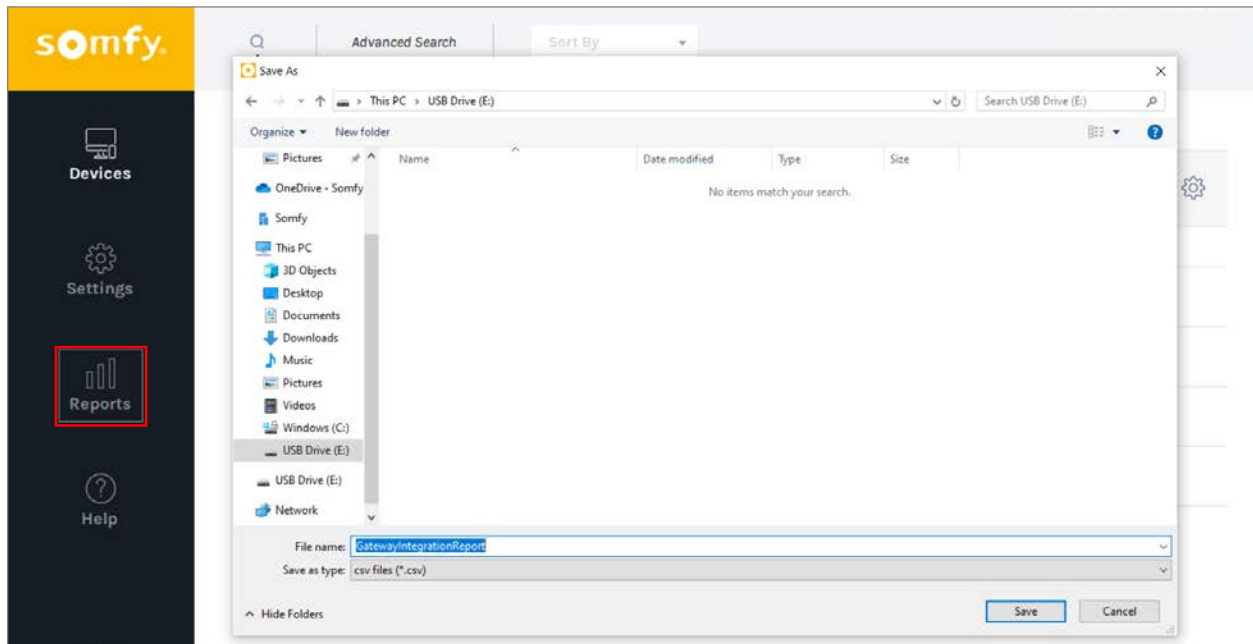
Use the *Motor Control* buttons to control an individual Motor:

- Up arrow moves the Motor to the upper limit
- Down arrow moves the Motor to the lower limit
- X stops the Motor from moving
- % moves the Motor to a specified percent or Intermediate Position



REPORTS & HELP

Click **Reports** to generate a Gateway Integration Report of all discovered PoE Gateways.



The Gateway Integration Report (.csv) documents all details necessary for third-party integration. Each Gateway will list in order by IP address and the Motors will list in the same order shown in the software. Use Microsoft Excel for customized sorting.

The screenshot shows a Microsoft Excel spreadsheet titled 'GatewayIntegrationReport - Excel'. The spreadsheet contains the following data:

	A	B	C	D	E	F	G	H	I	J
1	IPAdress	Label	Type	SerialNumber	Protocol	FirmwareVersion	MacAddress	ServerIPAdress	NodeAddress	Groups
2	192.168.0.102	SomfyGateway	MotorGateway		CoAPv1	MC1.6.3.16.17	04:91:62:68:ef:20	192.168.0.100		
3		Motor 1	motor	067071	ST30	9519693E00_09			067071	1,2,4,5
4		Motor 2	motor	068a80	ST30	9519693E00_09			068A80	1,2,4,5
5		Motor 3	motor	068aa7	ST30	9519693E00_09			068AA7	1,3,4,5
6		Motor 4	motor	0667b4	ST30	9519693E00_09			0667B4	1,3,4,5
7										
8										
9										
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Click **Help** to view this Programming Guide to support on-site programming or navigation questions.

APPENDIX

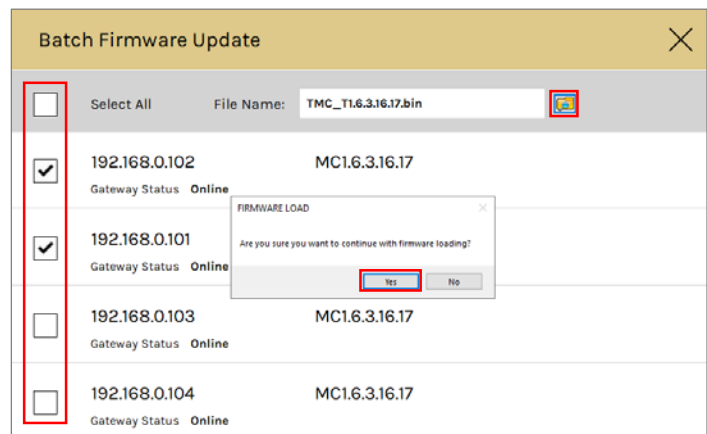
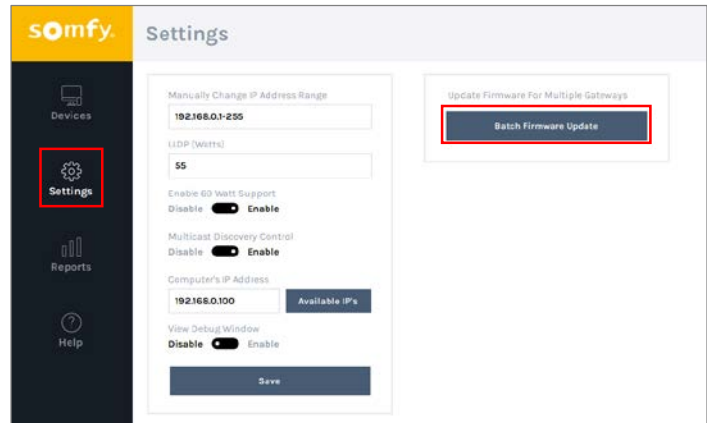
[APPENDIX A] FIRMWARE UPDATE

NOTE: There are 2 methods to perform Gateway firmware updates; a batch firmware update or individual firmware update. Both methods require a wired network connection.

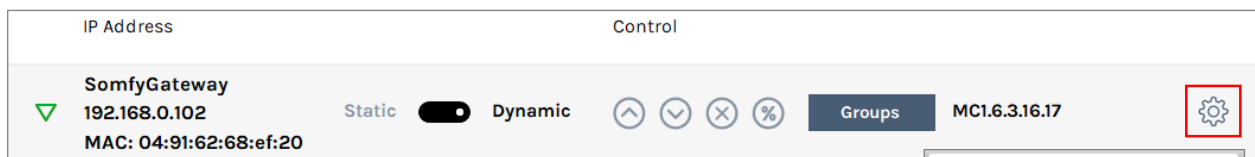
Go to <https://www.somfypro.com/services-support/software> to download the latest Somfy PoE Gateway firmware, then save and extract the .bin file to a known folder location

BATCH FIRMWARE UPDATE:

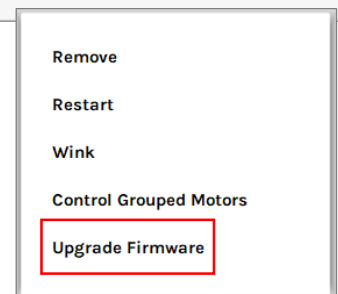
1. In the left pane of the Somfy PoE Gateway Application, click **Settings**
2. To Update Firmware for Multiple Gateways, click the **Batch Firmware Update** button
3. Select All or Individual Gateways to be updated
4. Browse for the .bin file mentioned above, then click **Open**
5. Click **Yes** to continue with firmware loading
6. Allow the process to complete, then click **OK** to confirm Gateways have successfully updated



INDIVIDUAL GATEWAY FIRMWARE UPDATE:



1. Click the **Gear** for individual Gateway Settings, then click **Upgrade Firmware**
2. Browse for the .bin file mentioned above, then click **Open**
3. Click **Yes** to continue with firmware loading
4. Allow the process to complete, then click **OK** to confirm the Gateway successfully updated



SOMFY® is the leading global manufacturer of strong, quiet motors with electronic and app controls for interior window coverings and exterior solar protections. Over 270 million users worldwide enjoy the more than 170 million motors produced by Somfy. During the past 50 years, Somfy engineers have designed products for both the commercial and residential markets to motorize window coverings such as interior shades, wood blinds, draperies, awnings, rolling shutters, exterior solar screens and projection screens. Somfy motorization systems are easily integrated with security, HVAC and lighting systems providing total home or building automation.

FOR QUESTIONS OR ASSISTANCE PLEASE CONTACT TECHNICAL SUPPORT:

(800) 22-SOMFY (76639)

technicalsupport_us@somfy.com

SOMFY SYSTEMS INC

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