INTEGRATION GUIDE

CRESTRON® INTEGRATION for TAHOMA® SWITCH



INTEGRATION GUIDE

CRESTRON® INTEGRATION for TAHOMA® SWITCH

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I. INTRODUCTION

The Somfy Organization's strength has been demonstrated with 50 years of experience in motorization. As leaders in the shading industry with innovative and modern solutions for homes and commercial buildings, Somfy offers the widest range of strong, quiet motors and controls for all types of applications and technologies.

Who is this Guide for?

This guide is aimed at providing support and guidance to Crestron® Integrators for achieving complete automation of Zigbee® and Radio Technology Somfy® (RTS) motors with the TaHoma® switch.

What does this Guide contain?

The sections of this guide contain walkthroughs and methods of controlling Zigbee and RTS devices using the TaHoma® switch(es) as the bridge between Crestron and Smart Shading by Somfy.

For questions or assistance please contact technical support:
(800) 22-SOMFY (76639)
Get answers to your questions from our Somfy FAQ page: www.somfysystems.com/en-us/support/faq
Follow the steps to access Service & Support.

How should this Guide be used?

This guide is intended to be used as a reference manual.

II. OVERVIEW

The Somfy TaHoma® switch provides a single platform for Somfy Zigbee and RTS with a wide range of interior and exterior applications.

- The TaHoma system supports up to 60 Zigbee motors (max. 50 WireFree), 10 smart plugs, 15 remotes, and 40 channels of RTS
- Join up to 10 TaHoma switch hubs for multi-zone control (RTS only)
- The TaHoma system supports a maximum of 40 scenes with schedules per install

Each TaHoma switch is connected to Wi-Fi or directly to the local area network by an optional Ethernet adaptor for IP Integration with third-party control systems. TaHoma is compatible with the Somfy Synergy™ API.

Details of this controller and commissioning instructions are available in the Somfy TaHoma pro Dealer Version Programming Guide.

RESOURCES & APPLICATIONS

Visit www.somfypro.com for the following guides:

- Somfy TaHoma pro Dealer Version Programming Guide
- Somfy RTS Pocket Programming Guide

Subscribe to the Somfy YouTube Channel www.youtube.com/somfysystems

Visit Somfy U for all the training you need — your pace, your place www.somfyu.com

Visit the Google Play or iOS App Store for the TaHoma by Somfy app:

SCAN ME

SYSTEM REQUIREMENTS

PC running Windows 10 or higher

Crestron SIMPL Windows

Crestron 3 or 4 Series Processor

Crestron Somfy TaHoma Module

CERTIFIED CRESTRON Integrated Partner

III. INSTALLATION

BUTTONS & INDICATORS

TaHoma® switch #1871037
TaHoma® switch (with ethernet adaptor) #1871038

TOP LED BEHAVIOR:

BLUE
WI-FI SETTING PROCESS

WHITE
WI-FI SEARCH – 2 TIMES
WI-FI LOST – 1 TIME

RED
SCENE STOPPED - SOLID
CONNECTION OUTAGE - BLINKING

OFF
STANDING BY

AMBER
RESTARTING

GREEN
TAHOMA PRO MODE

Scene 1 Button
Control customized scene 1

Stop Button
Stop scene underway

Scene 2 Button
Control customized scene 2



BOTTOM LED BEHAVIOR:

WHITE
POWERED,
CONNECTED TO CLOUD SERVER – SOLID
(CAN BE DEACTIVATED)

RED
POWERED,
NOT CONNECTED TO CLOUD SERVER - SOLID

OFF
NOT POWERED

Micro USB Port
Connect power or Ethernet Adaptor



Reset Button
PRESS & HOLD to reset TaHoma switch

TaHoma® Ethernet Adaptor #9028054
(Sold Separately or included with #1871038)
Connect for a wired local area network connection

Micro USB
Connect to TaHoma® switch for power and Ethernet



Ethernet Port
Connect to network router or switch

Micro USB Port
Connect power through Ethernet Adaptor

LED BEHAVIOR:

GREEN
ETHERNET CONNECTION

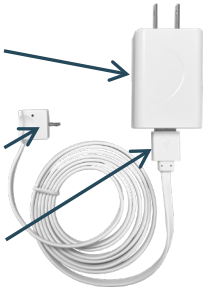
AMBER
DATA TRANSFER

Plug-in Power Supply Required
(Included with TaHoma® switch)
Connect to line-voltage to power TaHoma switch

Power Supply
Plug-in Transformer to line-voltage outlet

Micro USB
Connect power to TaHoma switch

Standard USB
Connect cable to Transformer



Ysia 1 & 5 Zigbee Remotes
Ensure the remote is powered.
Pressing any button will illuminate the LED(s).
Status LED will blink RED if the battery level is not sufficient for programming.
NOTE: Check the charge of the batteries in the remote

Ysia 1 Zigbee #1871153
Ysia 5 Zigbee #1871154

Status LED Indicator
Commands and Zigbee network activity

UP Button

MY/STOP Button

DOWN Button

Channel LED Indicator
Show channel selected

Channel Selection Button
To select channel

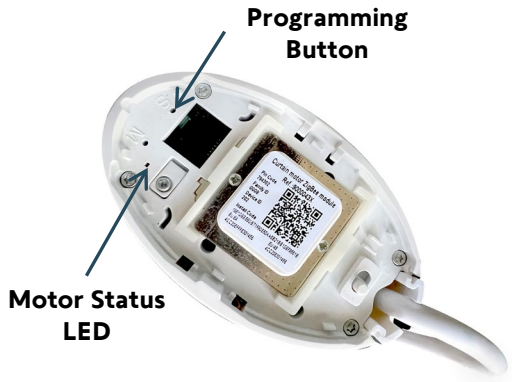
Programming Button
To pair and reset products



BUTTONS & INDICATORS

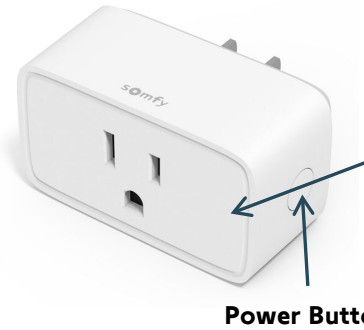
WAKING THE MOTOR:
Ensure the motor has required power available.
Using a small paper clip or similar, BRIEFLY PRESS the Programming Button on the head of the motor
OR
PLUG IN the battery supply/charger.
The motor will jog (briefly move up and down), and the LED will illuminate GREEN for 2 seconds.
The LED will blink AMBER continuously during programming.

DRAPERY MOTOR



Smart Plug Zigbee #1871217

Ensure the Smart Plug is plugged into a properly powered outlet.
QR Code and power button are on opposite sides of the plug.



LED BEHAVIOR:

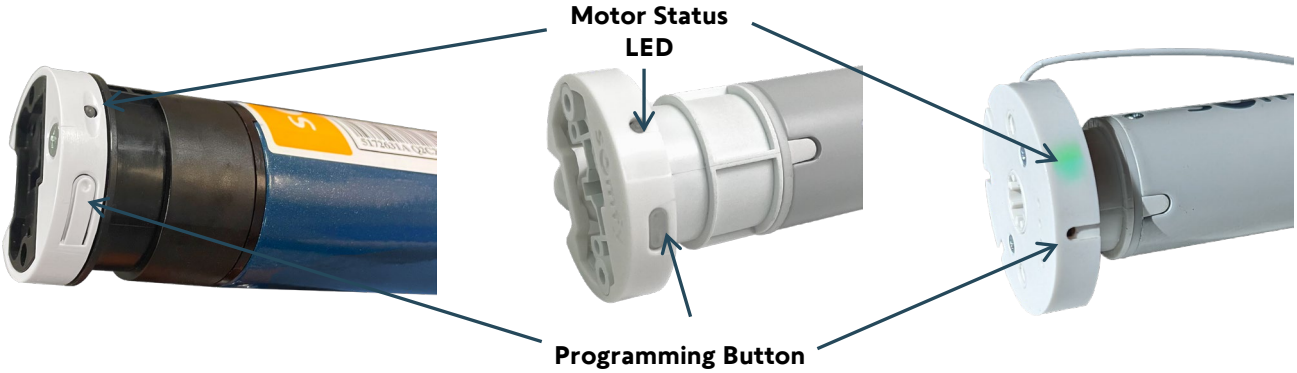
RED
SOLID 3s– NOT CONNECTED
POWERED – OUTPUT OFF

AMBER / GREEN
FLASHING – PAIRING MODE

GREEN
SOLID 3s – CONNECTED
POWERED – OUTPUT ON

OFF
NOT PAIRED
NOT POWERED

ROLLER MOTORS



Sonesse® 40 120V AC Zigbee shown above

Sonesse® 30 24V DC Zigbee shown above

Sonesse® 30 ULTRA WireFree Li-Ion Zigbee shown above (Same for Sonesse® WireFree™ motors)

MOTOR STATUS LED BEHAVIOR:

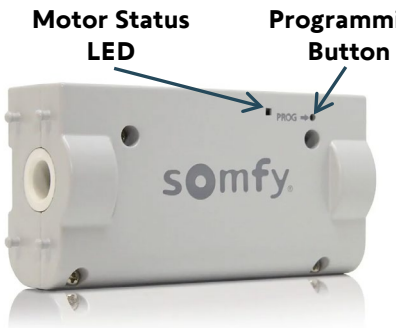
AMBER
MOTOR IS NOT SET
IN SETTING MODE
IN ADJUSTMENT MODE

GREEN
MOTOR IS CHARGING
CONFIRMED SETTING

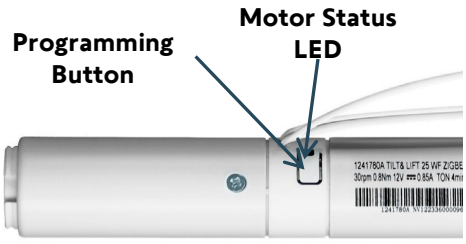
RED
LOW BATTERY CHARGE
THERMAL PROTECTION
IMPOSSIBLE SETTING

NOT ILLUMINATED ONCE
PAIRED AND OPERATIONAL

TILT MOTOR



CORD LIFT MOTOR



IV. SYSTEM PREPARATION

SOMFY SYSTEM

A fully operational TaHoma system is required prior to Crestron programming. The TaHoma system supports up to 60 Zigbee motors (max. 50 WireFree), 10 smart plugs, 15 remotes, and 40 channels of RTS.
RTS devices programmed to an RTS channel will only receive commands from the associated TaHoma switch hub.
NOTE: RTS Channels will populate as motors for single or multiple motors in a group.
Hubs must be placed within 25-35' of the devices they control.

- Confirm with the Shade Commissioning Agent that the TaHoma switch firmware is up to date
- An Integration Report is generated in the TaHoma app which will include the TaHoma switch PIN and IP address
  - Ensure that a DHCP Reservation via MAC Address of the TaHoma switch is being used
    - Third-Party Integration must first be enabled in the TaHoma app (see Appendix A)

CRESTRON SYSTEM

A fully operational Crestron system is required prior to Crestron programming.

V. SET UP

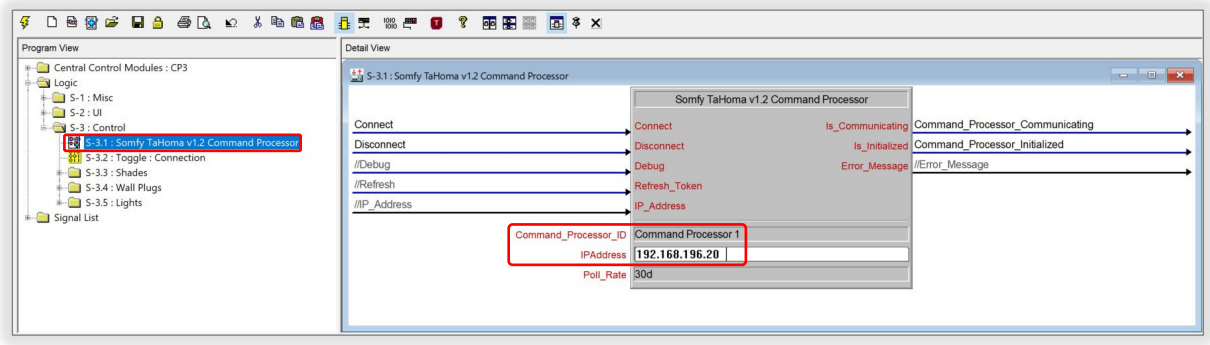
ADD TAHOMA COMMAND PROCESSOR

Refer to the Integration Report for the TaHoma switch IP address. A Somfy TaHoma Command Processor is required for each TaHoma switch installed. Up to 10 Command Processors are available per project.

1) In SIMPL Windows, OPEN the "Somfy TaHoma v1.2 Demo" file
2) In the Program View, DOUBLE-CLICK the "S-3.1 : Somfy TaHoma v1.2 Command Processor" module
3) In the Detail View, SELECT the Command Processor ID in the "CommandProcessor_ID" field

   The default ID is set to 1. Up to 10 Command Processors are available per project.
4) ENTER the TaHoma IP address in the "IPAddress" field
   Example: 192.168.196.20

To add multiple Command Processors (RTS only), COPY an existing module, PASTE it within the folder, then repeat Steps 2-4.

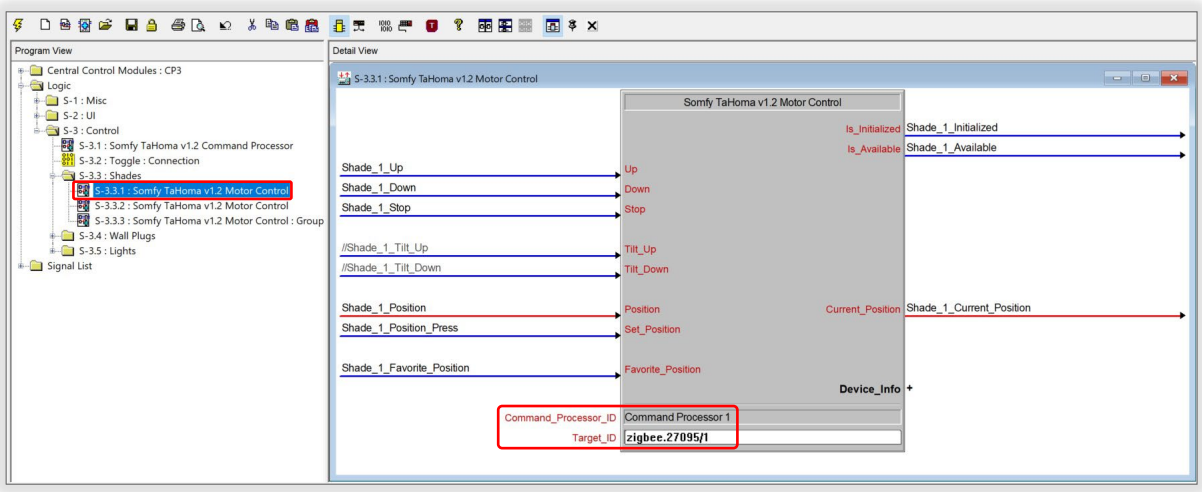


ADD TAHOMA MOTOR CONTROL

Refer to the Integration Report in the TaHoma app to gather the motor addresses. RTS groups must be added as Motor Controls.

1) In the Program View, DOUBLE-CLICK the "S-3.3.1 : Somfy Tahoma v1.2 Motor Control" module
2) In the Detail View, SELECT the Command Processor ID of the Command Processor module in the "CommandProcessor_ID" field
3) ENTER the motor address in the "Target_ID" field
   Example: zigbee.27095/1

To add multiple Motor Controls, COPY an existing module, PASTE it within the folder, then repeat Steps 2-3.



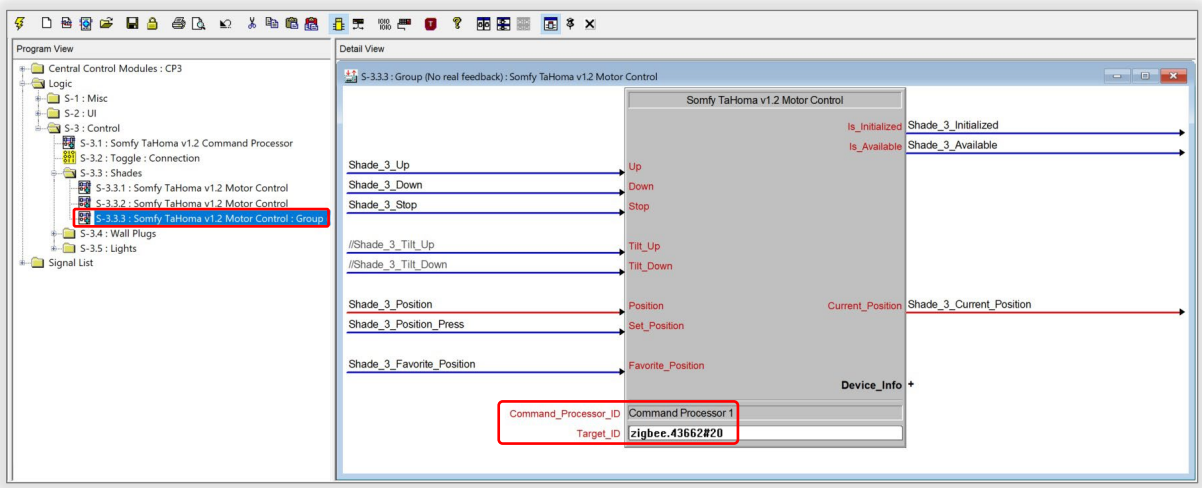
ADD TAHOMA MOTOR CONTROL GROUP

Refer to the Integration Report in the TaHoma app to gather the Zigbee group addresses. RTS groups must be added as individual Motor Controls.

1) In the Program View, SELECT the "S-3.3.3 : Somfy TaHoma v1.2 Motor Control: Group" module
2) In the Detail View, SELECT the Command Processor ID of the Command Processor module in the "CommandProcessor_ID" field
3) ENTER the Zigbee group address in the "Target_ID" field
   Example: zigbee.43662#20

Zigbee group addresses must include #20 for roller or drapery product groups and #22 for tilt only product groups.

To add multiple Motor Control Groups, COPY an existing module, PASTE it within the folder, then repeat Steps 2-3.

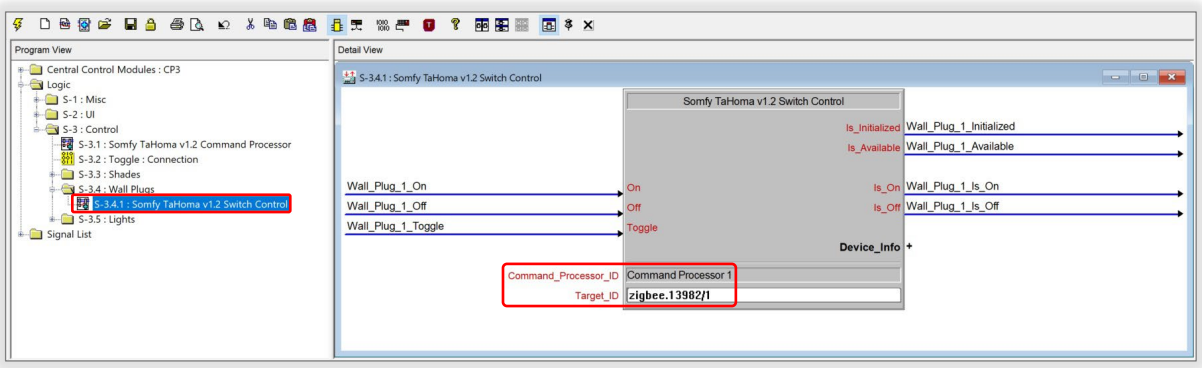


ADD TAHOMA SWITCH CONTROL MODULE

Refer to the Integration Report in the TaHoma app to gather the Somfy Smart Plug addresses.

1) In the Program View, SELECT the "S-3.4.1 : Somfy TaHoma v1.2 Switch Control" module
2) In the Detail View, SELECT the Command Processor ID of the Command Processor module in the "CommandProcessor_ID" field
3) ENTER the Smart Plug address in the "Target_ID" field
   Example: zigbee.13982/1

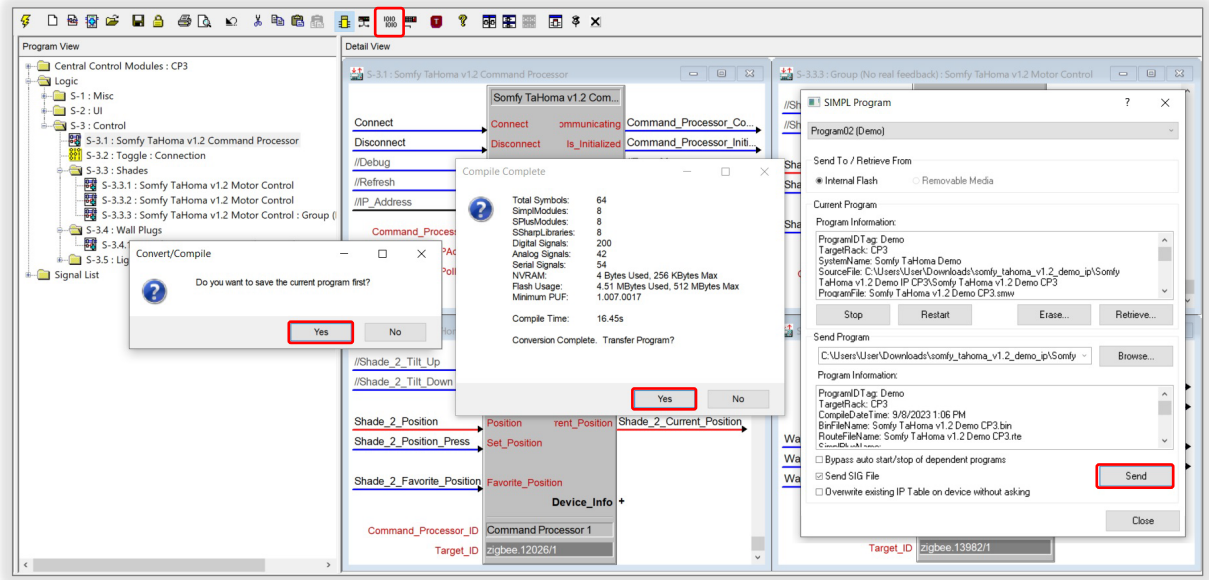
To add multiple Switch Controls, COPY an existing module, PASTE it within the folder, then repeat Steps 2-3.



TRANSFER PROGRAM

Once all programming is complete for the project, transfer the program to the Crestron controller.

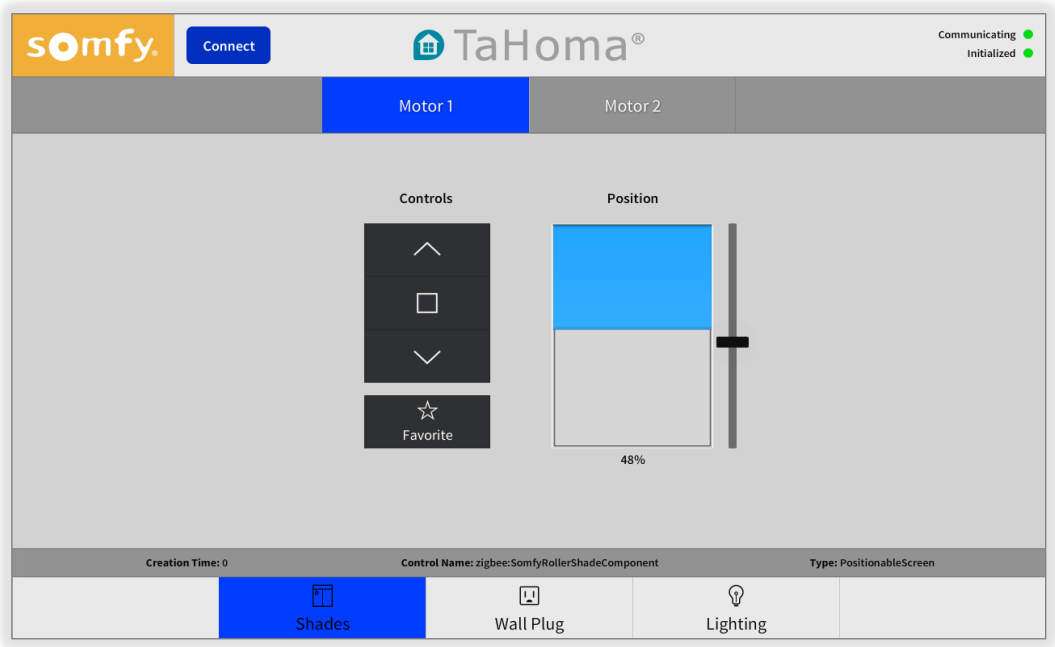
1) In the Program bar, SELECT "Convert/Compile"
2) When prompted to save the current program first, SELECT "Yes"
3) When prompted to transfer the program, SELECT "Yes"
4) CONFIRM the Program Information, then SELECT "Send"

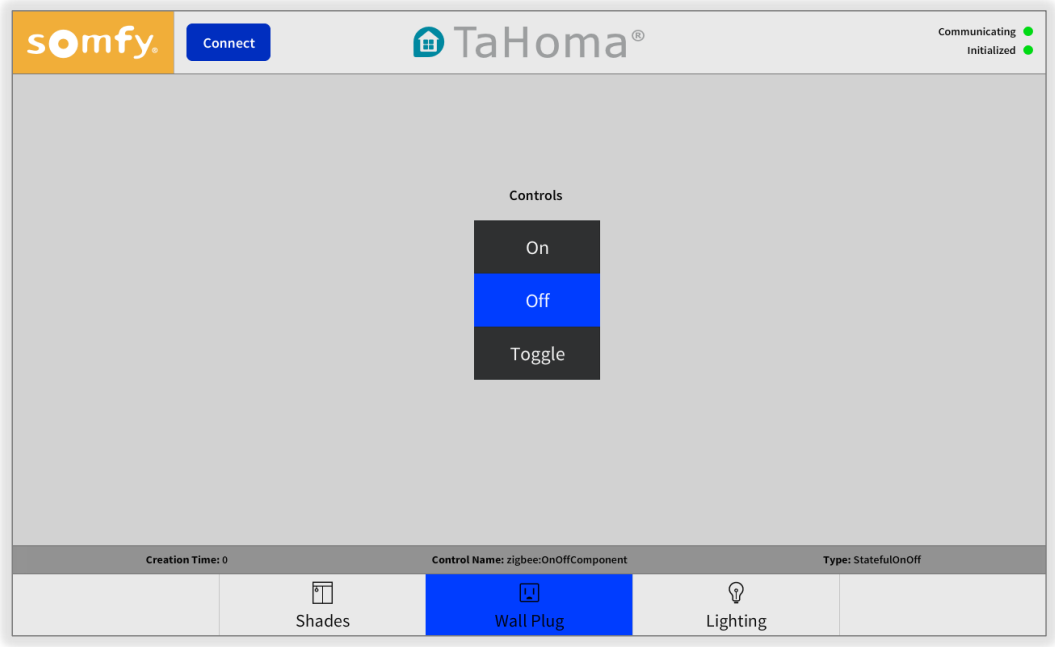


TEST OPERATION

Refer to Appendix C of this guide for a list of Somfy TaHoma specific commands and actions. RTS motors do not report positional feedback. The Position slider will not display percent levels for RTS motors.

1) OPEN the "Somfy TaHoma v1.2 Demo XPANEL" file
2) SELECT "Options"
3) SELECT "Host Settings"
4) ENTER the IP address of the Crestron Controller in the "Hostname/IP Address" field, then SELECT "Connect"
5) SELECT "Connect"
6) Use the controls to test operation of the devices



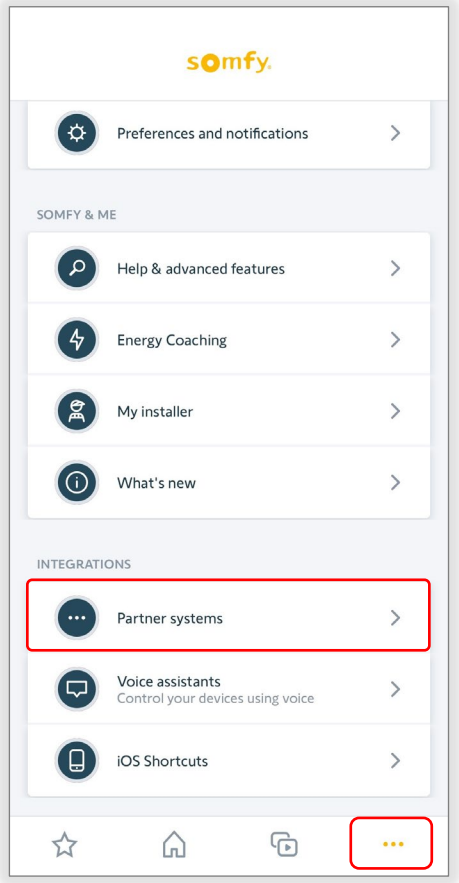


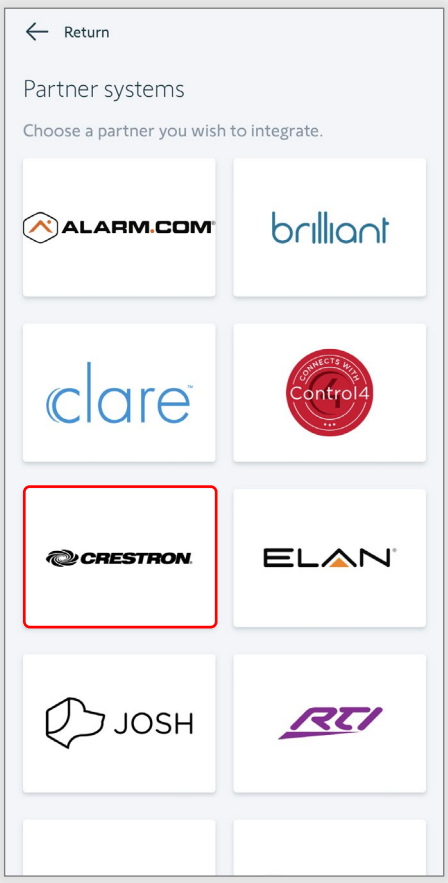
APPENDIX

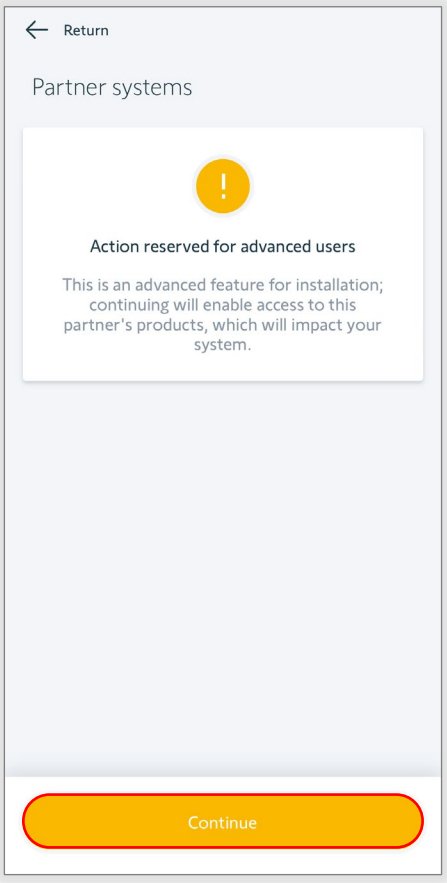
[APPENDIX A] ENABLE THIRD-PARTY INTEGRATION

1) OPEN the TaHoma by Somfy app
2) SELECT the Menu icon in the bottom bar
3) SELECT "Partner systems"
4) SELECT "CRESTRON"
5) SELECT "Continue"

The Integration Report will display all connected products.



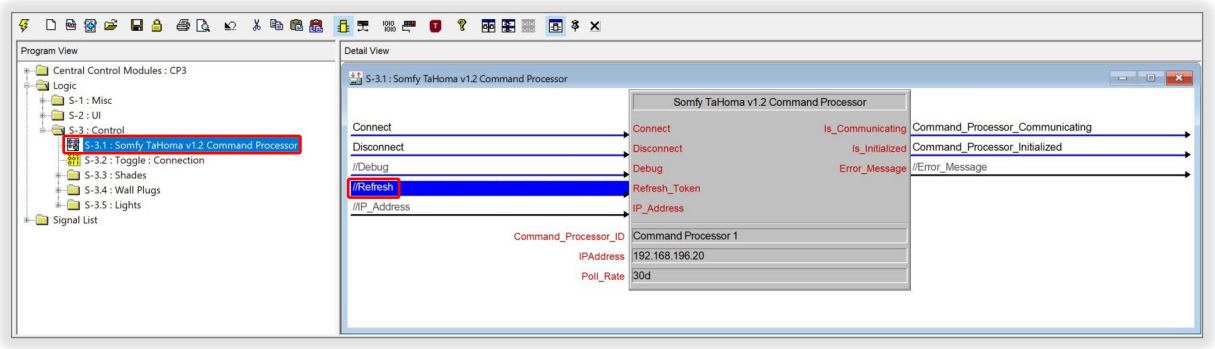




[APPENDIX B] REFRESH AUTHENTICATION TOKEN

An authentication token is required for Third-Party Integration. Refer to Appendix A of this guide to enable Third-Party Integration in the TaHoma app. If a TaHoma switch is removed, the new TaHoma will need to request a new token.

1) CONFIRM Third-Party Integration for Crestron is enabled in the TaHoma app (see Appendix A)
2) In SIMPL Windows Program View, DOUBLE-CLICK the "S-3.1 : Somfy TaHoma v1.2 Command Processor" module
3) In the Detail View, SELECT "//Refresh" to refresh the authentication token



4) Complete the Transfer Program steps of this guide to transfer the program to the Crestron controller

[APPENDIX C] AVAILABLE COMMANDS & ACTIONS

TAHOMA ZIGBEE COMMANDS	
Open	Moves product to the open position
Close	Moves product to the closed position
Stop	Stops product when moving
My	Moves product to the programmed "my" position if at rest
Position	Moves product to a percent position closed (0-100)
Tilt Up	Tilts product open*
Tilt Down	Tilts product closed*

TAHOMA SMART PLUG COMMANDS	
Off	Turns power off to lighting device or small appliance
On	Turns power on to lighting device or small appliance
Toggle	Turns lighting device or small appliance off or on

TAHOMA RTS COMMANDS	
Open	Moves product to the open position
Close	Moves product to the closed position
Stop	Stops product when moving
My	Moves product to the programmed "my" position if at rest
Tilt Up	Tilts product open*
Tilt Down	Tilts product closed*

**Tilt close and tilt open are only available for tilting products.*

FOR QUESTIONS OR ASSISTANCE PLEASE CONTACT TECHNICAL SUPPORT:

(800) 22-SOMFY (76639)

Get answers to your questions from our Somfy FAQ page: www.somfysystems.com/en-us/support/faq

Follow the steps to access Service & Support.

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About Somfy®

For over 50 years, Somfy has been pioneering innovative motorization and automated solutions for window coverings and exterior shading products. With comfort, ease of use, security, and sustainability in mind, our seamless and connected solutions are designed to help people make the move to living spaces impactful for humans and with a reduced impact on nature.

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Somfy Systems, Inc.
T: (800) 22-SOMFY
www.somfypro.com

New Jersey
121 Herrod Blvd.
Dayton, NJ 08810
T: (609) 395-1300
F: (609) 395-1776

Florida
1200 SW 35th Ave.
Boynton Beach, FL 33426
T: (561) 995-0335
F: (561) 995-7502

California
15301 Barranca Pkwy.
Irvine, CA 92618-2201
T: (949) 727-3510
F: (949) 727-3775

Somfy ULC
T: (800) 66-SOMFY
www.somfypro.ca

Canada
6411 Edwards Blvd.
Mississauga, ON L5T 2P7
T: (905) 564-6446
F: (905) 238-1491