CRESTRON®
INTEGRATION for
TAHOMA® SWITCH

somfy.

INTEGRATION GUIDE
CRESTRON® INTEGRATION for TAHOMA®
VERSION 1.0 | SEPTEMBER 2023 | Prepared by PROJECT SERVICES

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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 as the bridge between Crestron and Smart Shading by Somfy.

For questions or assistance please contact technical support:
(800) 22-SOMFY (76639)
technicalsupport_us@somfy.com

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 50 Zigbee devices and 40 RTS channels
  - 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

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
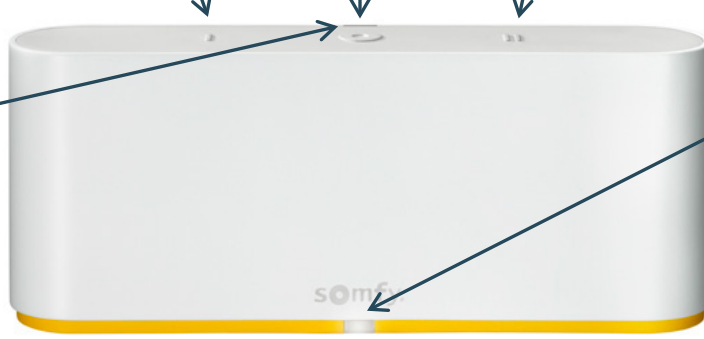SCENE STOPPED - SOLID
CONNECTION OUTAGE -
BLINKING

OFF
STANDING BY

AMBER
RESTARTING

GREEN
TAHOMA PRO MODE

Scene 1 Button
Control customized
scene 1

Stop Button
Stop scene
underway

Scene 2 Button
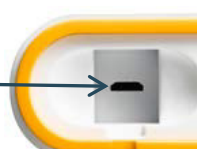Control customized
scene 2

**BOTTOM
LED BEHAVIOR:**

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

RED
POWERED,
NOT CONNECTED
TO CLOUD SERVER - SOLID
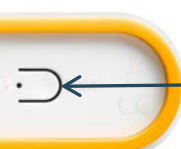
OFF
NOT POWERED

Micro USB Port
Connect power or
Ethernet Adaptor

Reset Button
PRESS & HOLD to reset
TaHoma switch

TaHoma® Ethernet Adaptor #1870470
(Sold Separately)
Connect for a wired local area network connection
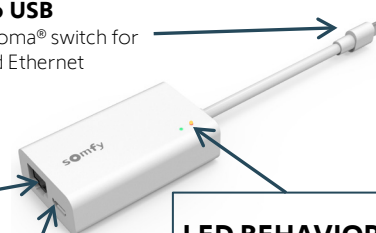
Micro USB
Connect to TaHoma® switch for
power and Ethernet

Ethernet Port
Connect to network
router or switch

Micro USB Port
Connect power through
Ethernet Adaptor
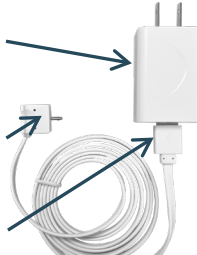
LED BEHAVIOR:
GREEN
ETHERNET CONNECTION
AMBER
DATA TRANSFER

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)

Ysia 1 Zigbee #1871153
Ysia 5 Zigbee #1871154

Status LED Indicator
Commands and Zigbee
network activity

UP Button
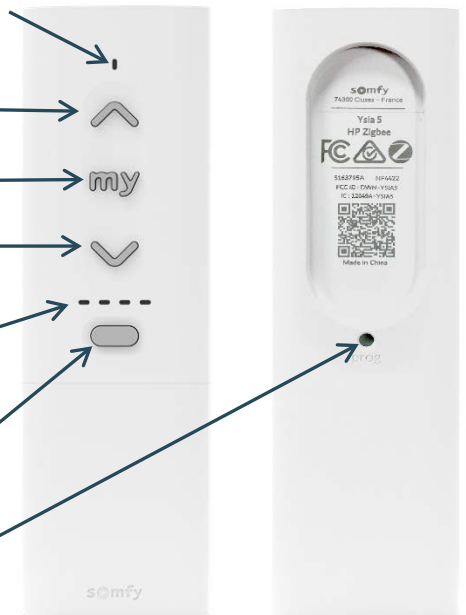
MY/STOP Button

DOWN Button

**Channel LED
Indicator**
Show channel selected

**Channel Selection
Button**
Select channel

**Programming
Button**
Pair and reset
products

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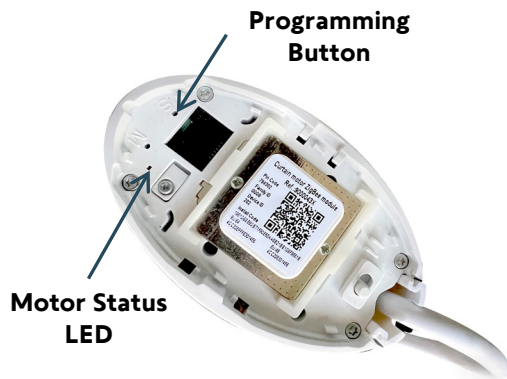Using a small paper clip or similar, BRIEFLY PRESS the Programming Button on the head of the motor
OR
PLUG IN the battery supply/charger.
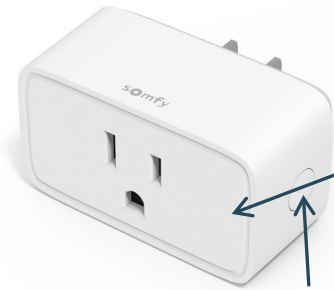The motor will jog (briefly move up and down), and the LED will illuminate GREEN for 2 seconds.
The LED will blink AMBER continuously during programming.

DRAPERY MOTOR

Programming Button

Motor Status LED

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
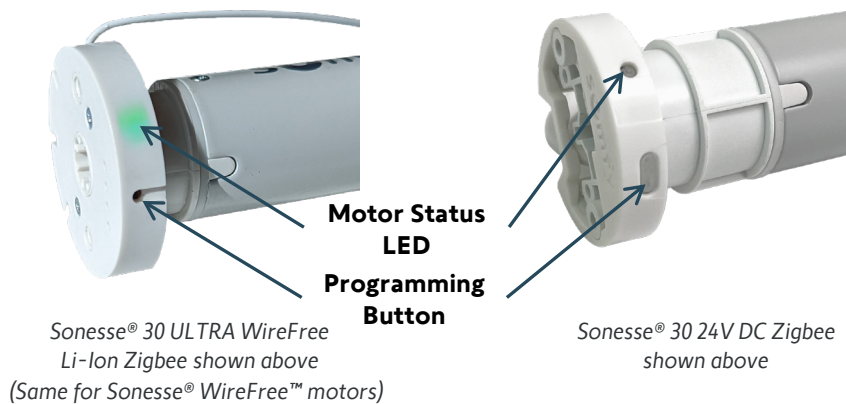
Power Button

LED BEHAVIOR:

RED
NOT CONNECTED — SOLID 3s
OUTPUT OFF — SOLID

AMBER / GREEN
PAIRING MODE — BLINKING

GREEN
CONNECTED — SOLID 3s
POWERED — SOLID

OFF
NOT PAIRED
NOT POWERED

ROLLER MOTOR

Motor Status LED

Programming Button

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

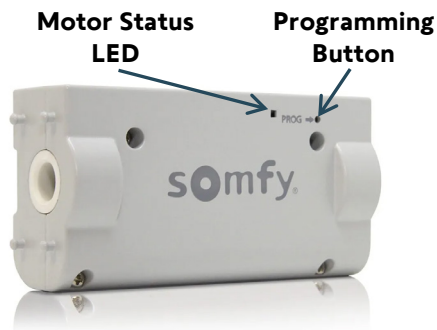*Sonesse® 30 24V DC Zigbee shown above*

MOTOR STATUS LED BEHAVIOR:

AMBER
MOTOR IS NOT SET
IN SETTING MODE
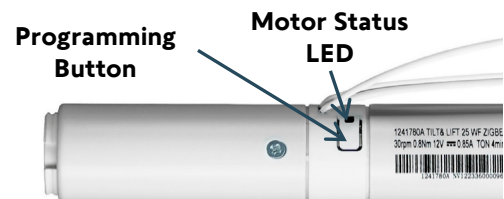IN ADJUSTMENT MODE

GREEN
MOTOR IS CHARGING
CONFIRMED SETTING

RED
LOW BATTERY CHARGE
THERMAL PROTECTION
IMPOSSIBLE SETTING

OFF
PAIRED AND OPERATIONAL

TILT MOTOR

Motor Status LED   **Programming Button**

PROG

somfy.

CORD LIFT MOTOR

Programming Button   **Motor Status LED**

1241780A TILT & LIFT 25 WF ZIGBEE
30rpm 0.8Nm 12V ⎓ 0.85A TON 4min
1241780A NV12233600000096

IV. SYSTEM PREPARATION

SOMFY SYSTEM

A fully operational TaHoma system is required prior to Crestron programming. The TaHoma system supports up to 50 Zigbee devices 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

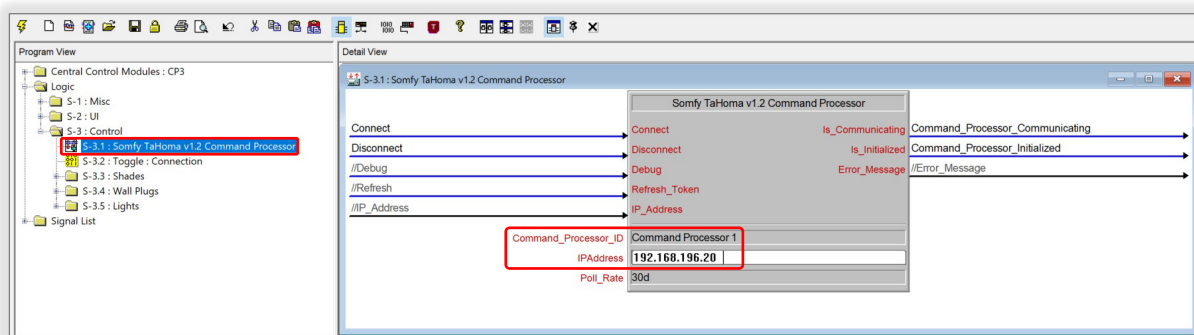*A fully operational Crestron system is required prior to Crestron programming.*

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

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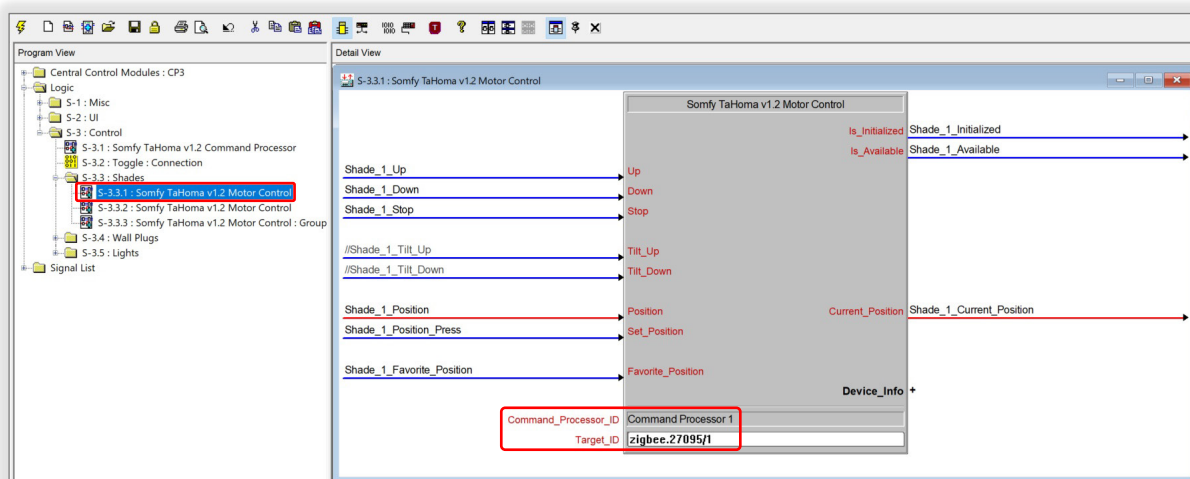
ADD TAHOMA MOTOR CONTROL

Refer to the Integration Report in the TaHoma app to gather the motor addresses.

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

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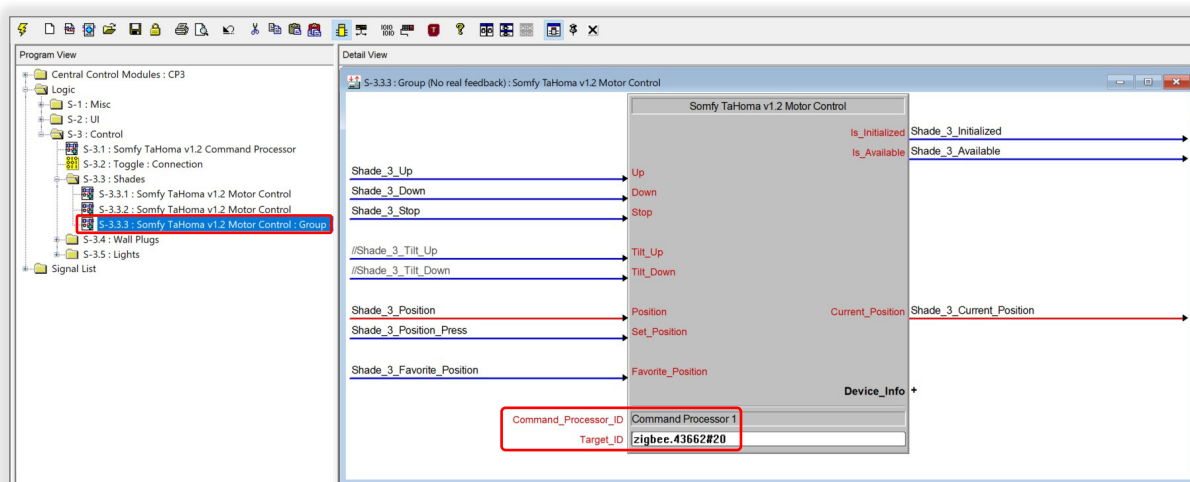

ADD TAHOMA MOTOR CONTROL GROUP

Refer to the Integration Report in the TaHoma app to gather the Zigbee group addresses.
NOTE: RTS Channels will populate as motors for single or multiple motors in a group.

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

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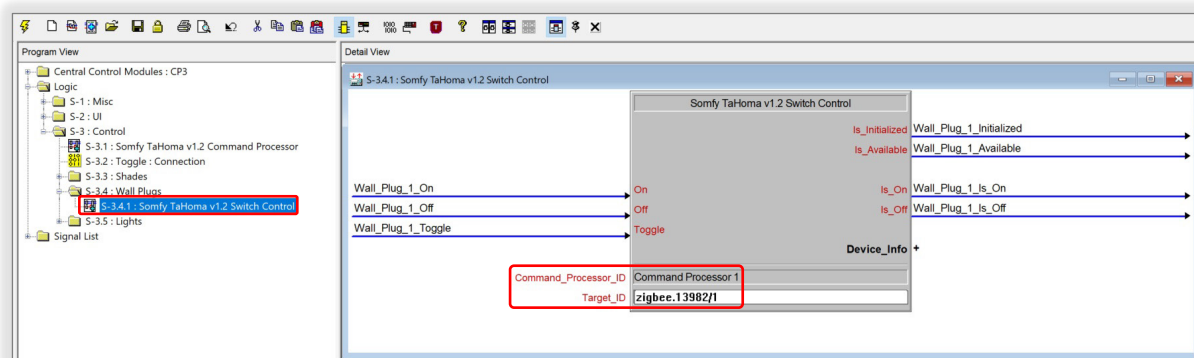
ADD TAHOMA SWITCH CONTROL MODULE

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

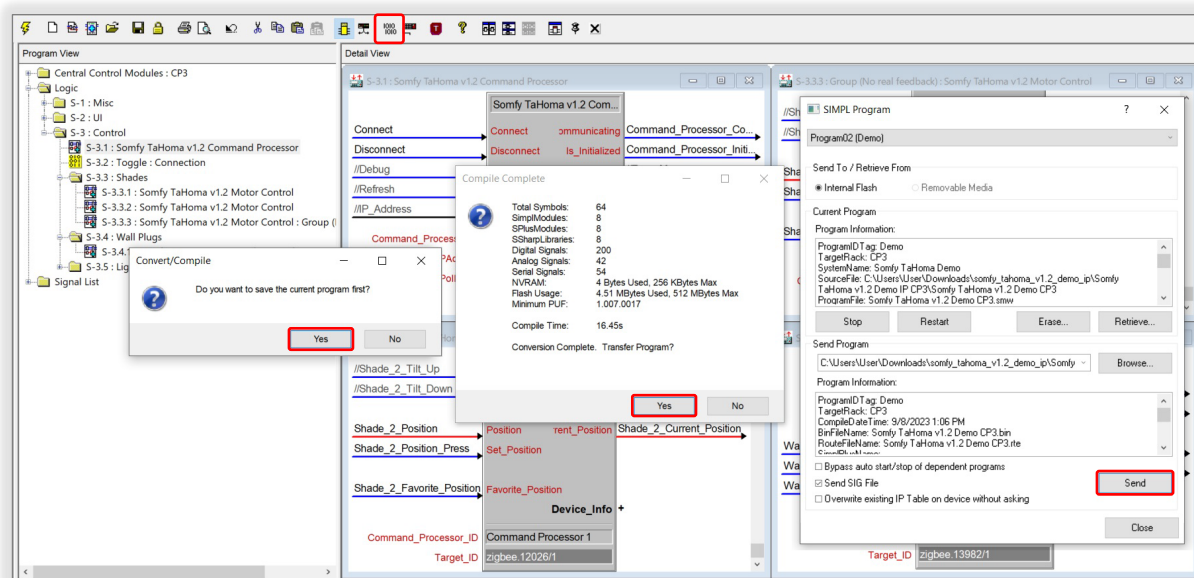3) ENTER the Smart Plug address in the "Target_ID" field

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.
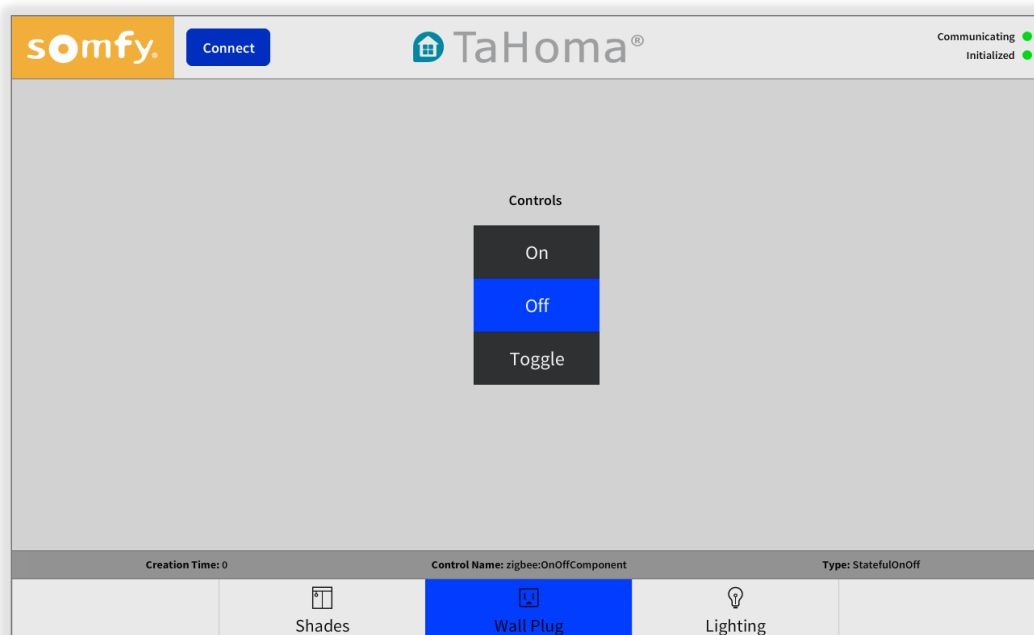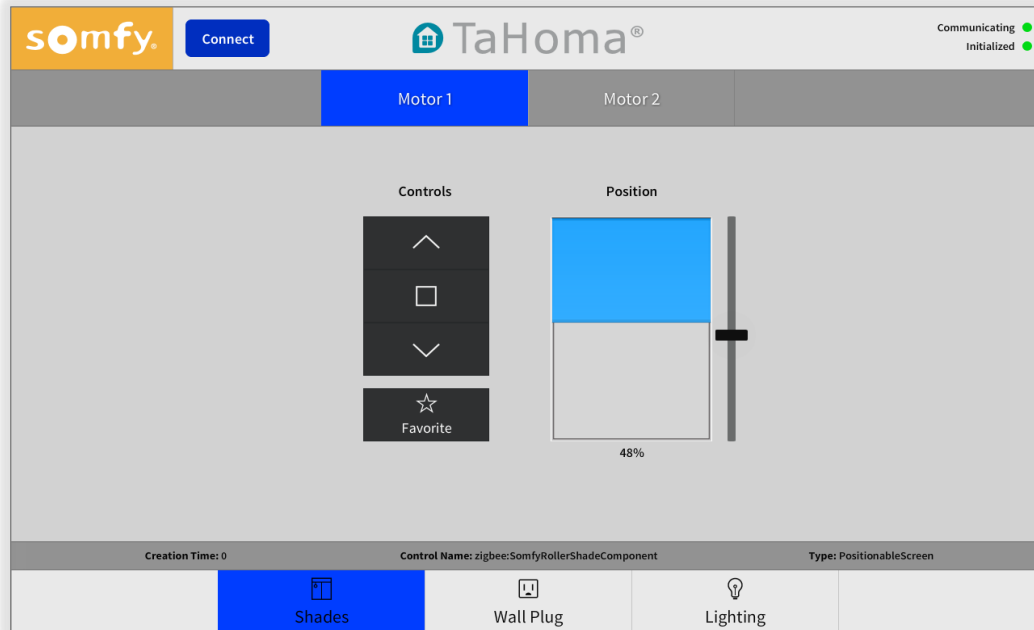
1) In the Program bar, SELECT "Convert/Compile"

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"

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"
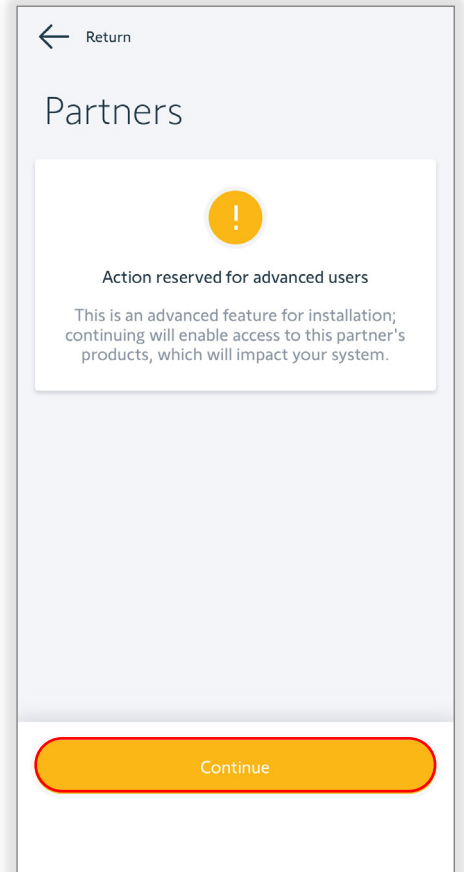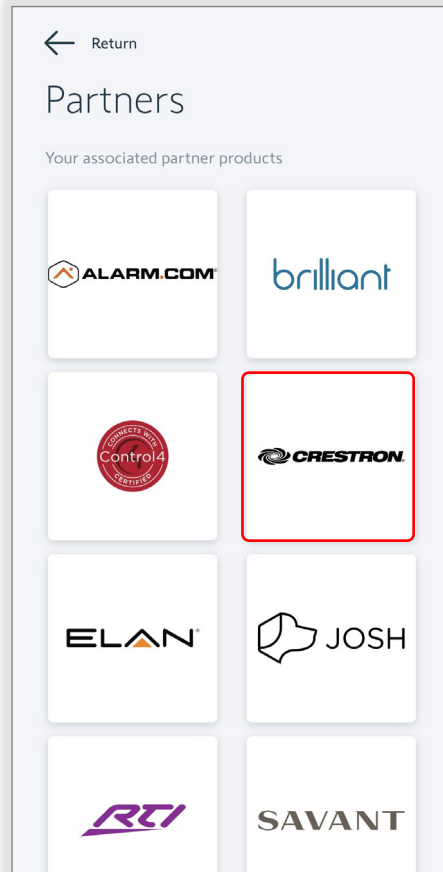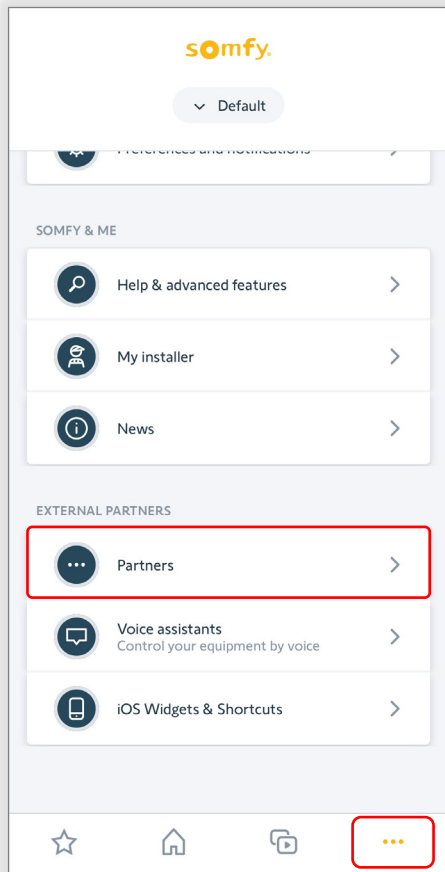6) Use the controls to test operation of the devices

APPENDIX

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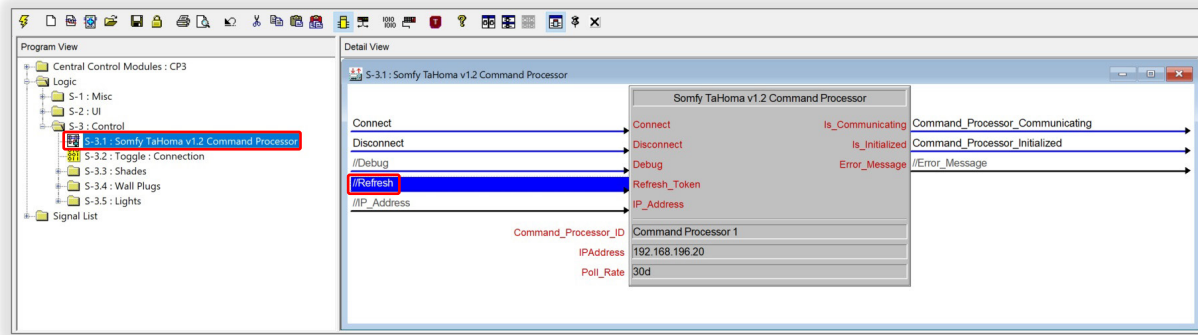3) SELECT "Partners"
4) SELECT "CRESTRON"
5) SELECT "Continue"

   The Integration Report will display all connected products.

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

TAHOMA ZIGBEE COMMANDS	
Close	Moves blind to the fully closed position
Open	Moves blind to the fully open position
Stop	Stops blind when moving
My	Moves blind to the programmed "my" position if blind is at rest
Position	Moves blind to a percent position closed (0-100)
Tilt Up	Tilts blind up (only available for tilt blinds)
Tilt Down	Tilts blinds down (only available for tilt blinds)

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

TAHOMA RTS COMMANDS	
Close	Moves blind to the fully closed position
Open	Moves blind to the fully open position
Stop	Stops blind when moving
My	Moves blind to the programmed "my" position if blind is at rest
Tilt Up	Tilts blind up (only available for tilt blinds)
Tilt Down	Tilts blind down (only available for tilt blinds)

FOR QUESTIONS OR ASSISTANCE PLEASE CONTACT TECHNICAL SUPPORT:

(800) 22-SOMFY (76639)

technicalsupport_us@somfy.com

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Make the move

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.

A BRAND OF **SOMFY** GROUP

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