INTEGRATION GUIDE

ELAN®
INTEGRATION for
TAHOMA® SWITCH



INTEGRATION GUIDE

ELAN® 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 ELAN® 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 ELAN 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

ELAN Management Cloud v1.3.0 or higher

ELAN Core Module 8.3.11 or higher

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

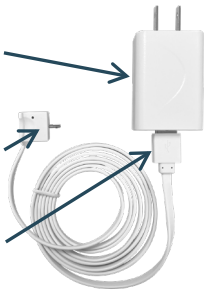
AMBER
DATA TRANSFER

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

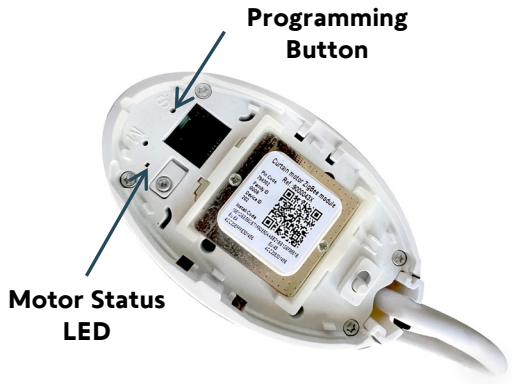
Programming Button
To pair and reset products



BUTTONS & INDICATORS

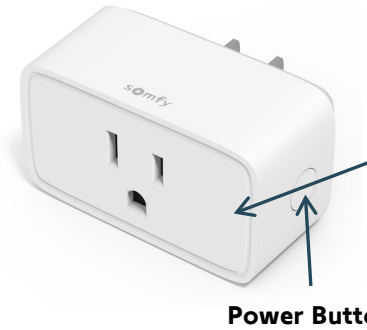
WAKING THE MOTOR:
Ensure the motor has required power available.
Using a small paper clip or similar, BRIEFLY PRESS the Programming Button on the head of the motor
OR
PLUG IN the battery supply/charger.
The motor will jog (briefly move up and down), and the LED will illuminate GREEN for 2 seconds.
The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

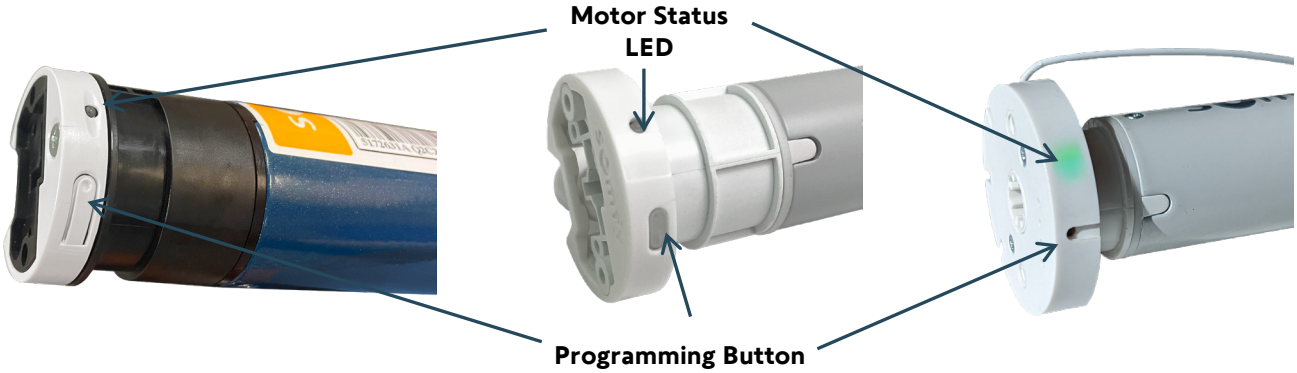
RED
SOLID 3s– NOT CONNECTED
POWERED – OUTPUT OFF

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:

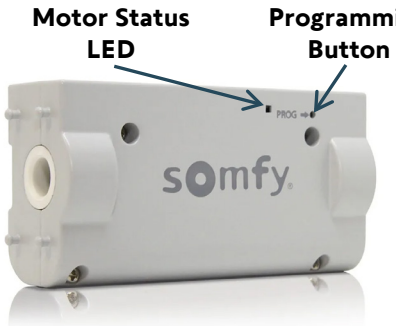
AMBER
MOTOR IS NOT SET
IN SETTING MODE
IN ADJUSTMENT MODE

GREEN
MOTOR IS CHARGING
CONFIRMED SETTING

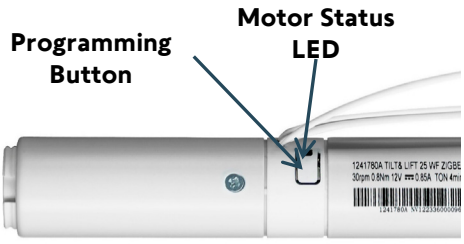
RED
LOW BATTERY CHARGE
THERMAL PROTECTION
IMPOSSIBLE SETTING

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 ELAN 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.
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)

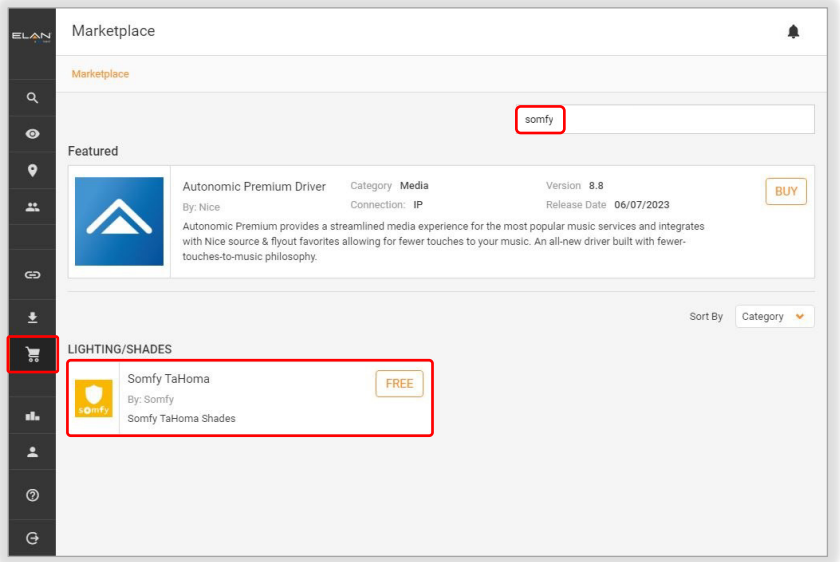
ELAN SYSTEM

A fully operational ELAN system is required prior to TaHoma integration.

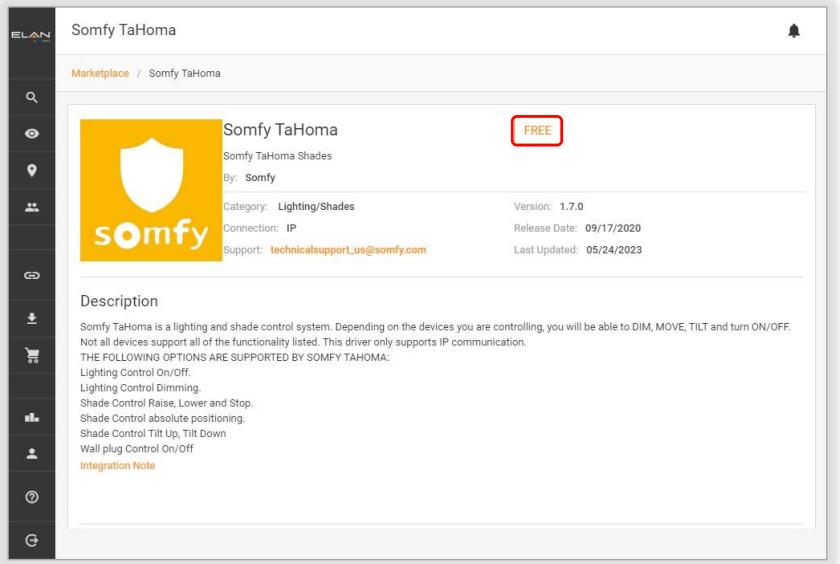
V. SET UP

DOWNLOAD DRIVER

1) OPEN the ELAN Management Cloud
2) SELECT "Marketplace"
   Marketplace is the Shopping Cart icon.
3) ENTER "somfy" in the Search field
4) SELECT "Somfy TaHoma"



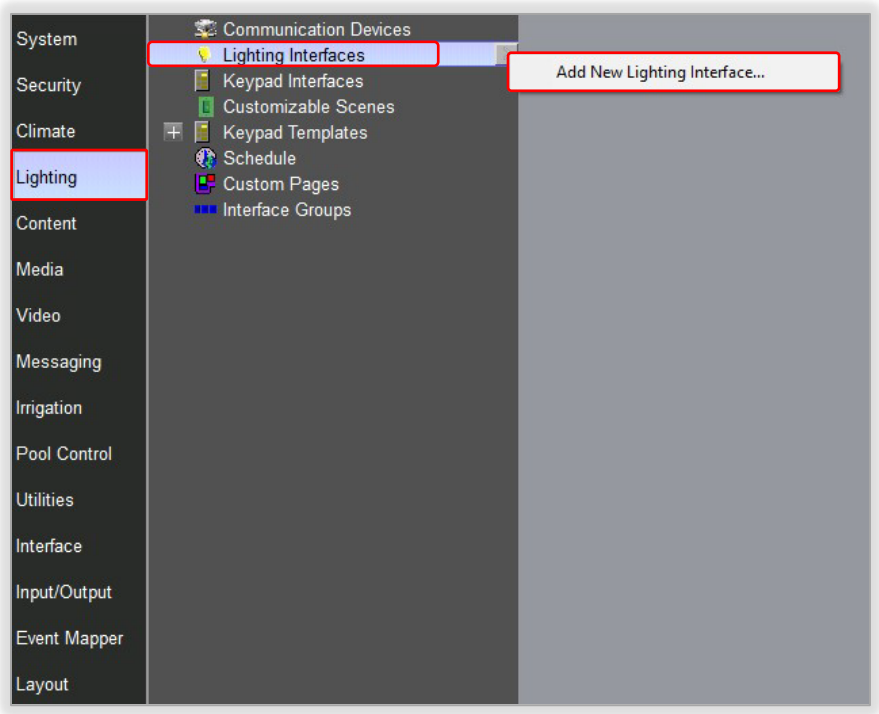
5) SELECT "FREE"
   The file will download to the default web browser Downloads folder.



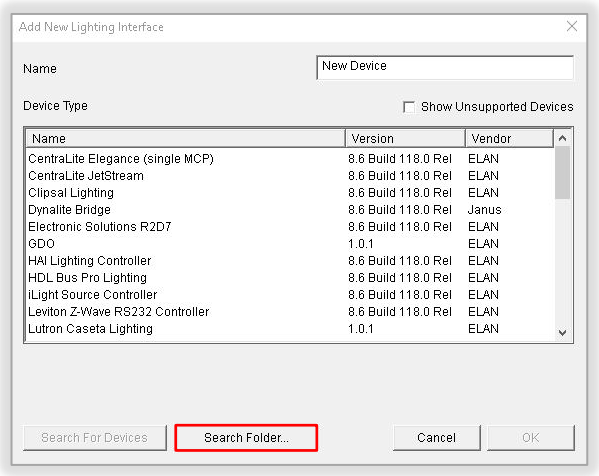
IMPORT TAHOMA DRIVER

Import the latest TaHoma driver from the ELAN Marketplace. A fully operational TaHoma system is required prior to ELAN programming.

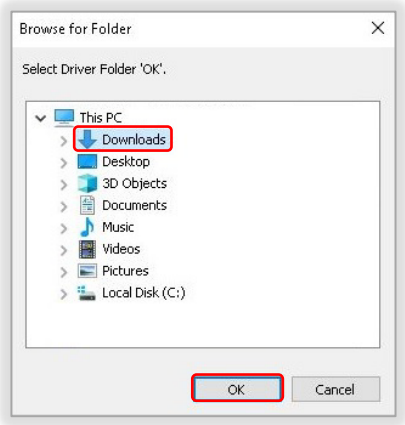
1) In the ELAN Management Cloud, LAUNCH the Configurator
2) SELECT "Lighting"
3) SELECT the "Lighting Interfaces" arrow or RIGHT-CLICK "Lighting Interfaces"
4) SELECT "Add New Lighting Interface..."



5) SELECT "Search Folder"



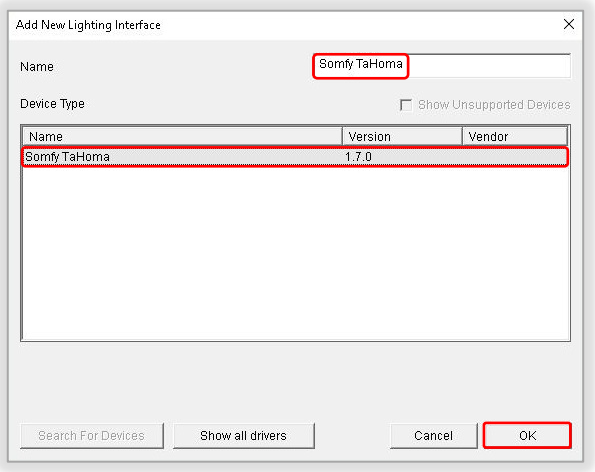
6) SELECT the driver folder where the Somfy TaHoma driver was downloaded
7) SELECT "OK"



ADD INTERFACE DRIVER

A fully operational TaHoma system is required prior to ELAN programming.
For multiple TaHoma installations, repeat the steps below for each additional TaHoma switch.

1) ENTER an associated location name for the TaHoma switch in the Name field
2) SELECT "Somfy TaHoma" in Device Type list
3) SELECT "OK"



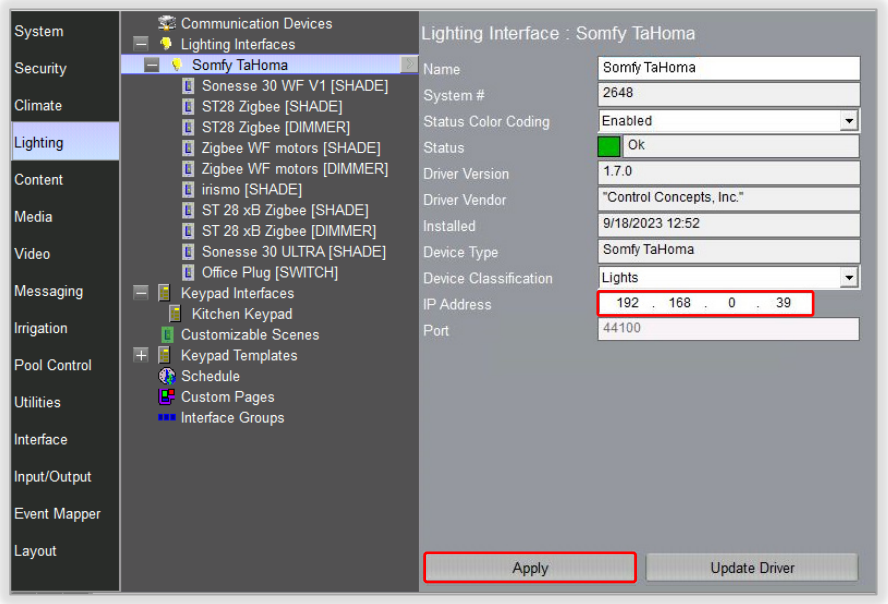
NETWORK SET UP

Third-Party Integration must be enabled in the TaHoma app. Refer to the Integration Report for the TaHoma switch IP address. Ensure that a DHCP Reservation via MAC Address of the TaHoma switch is being used. Shades will auto-populate when communication is established.

1) ENTER the IP Address of the TaHoma in the IP Address field
2) SELECT "Apply"
3) In the TaHoma app Partners section, SELECT "ELAN" (see Appendix A)
4) CONFIRM the Status displays "Ok"

   The Status will change to GREEN *when communication is successfully established.*

   Select and rename each device listed to the appropriate location where necessary.

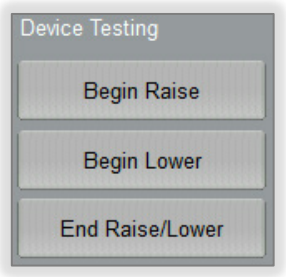


DEVICE TEST

See Appendix B of this guide for a list of Somfy TaHoma specific commands and actions. RTS motors do not report positional feedback. RTS motors are capable of one programmable "my" or favorite position that requires an End Raise/Lower command when the motor is at rest.

Test RTS Motors

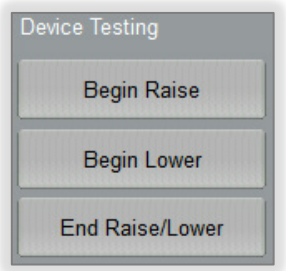
1) SELECT an RTS Device [SHADE]
2) SELECT any of the three commands under Device Testing



Test Zigbee Motor [SHADE] Profile

NOTE: Zigbee devices will appear as a shade for Raise and Lower commands.

1) SELECT a Zigbee [SHADE]
2) SELECT any of the three commands under Device Testing

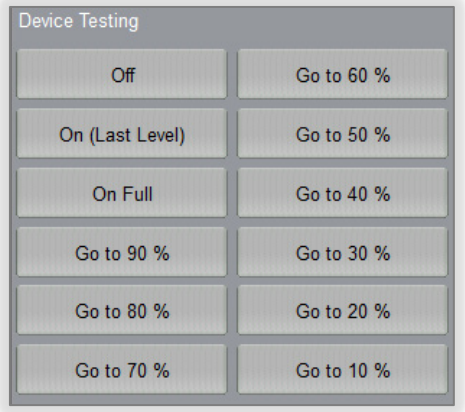


[SHADE] profile for Zigbee

Test Zigbee Motor [DIMMER] Profile

NOTE: Zigbee devices will appear as a dimmer for percentage commands.

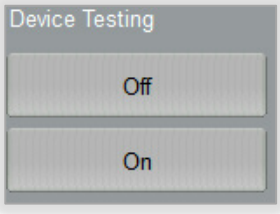
1) SELECT a Zigbee [DIMMER]
2) SELECT any of the percentage commands under Device Testing



[DIMMER] profile for Zigbee

Test Smart Plug

1) SELECT a Smart Plug [SWITCH]
2) SELECT any of the two commands under Device Testing

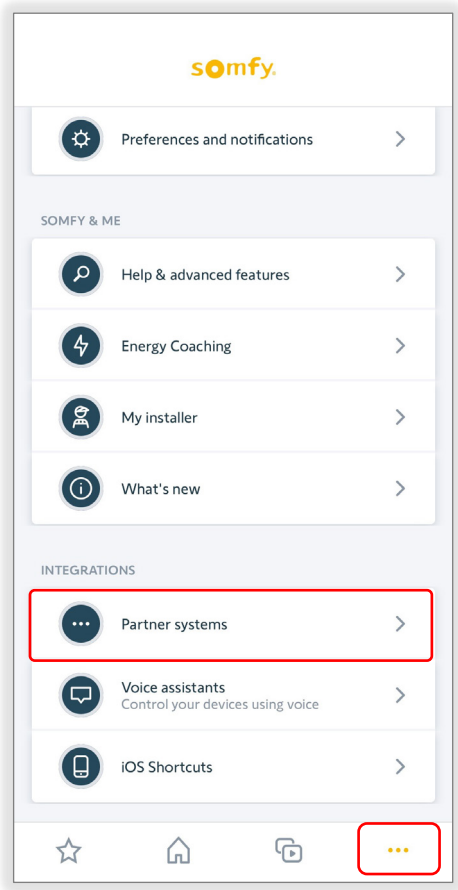


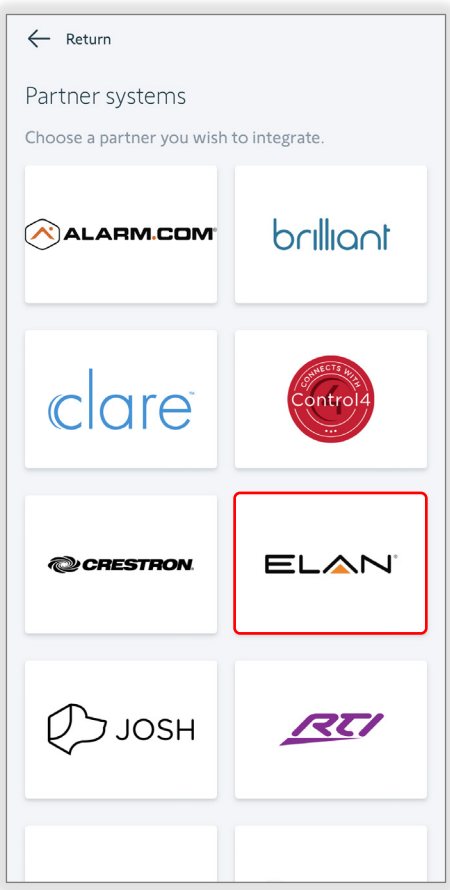
APPENDIX

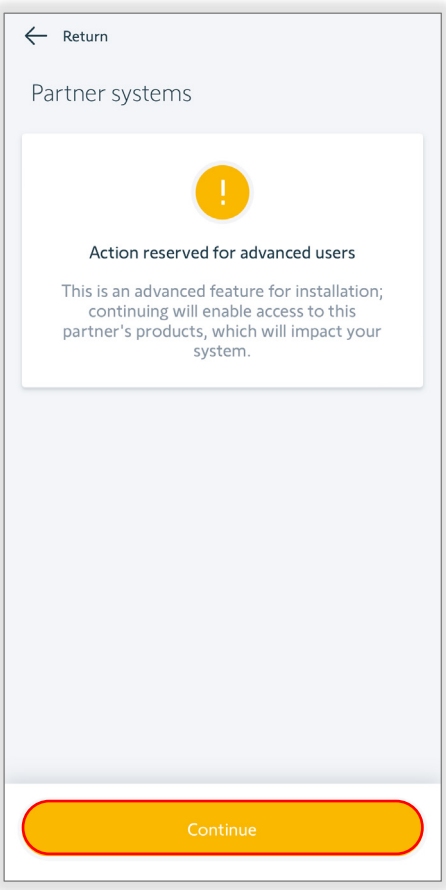
[APPENDIX A] ENABLE THIRD-PARTY INTEGRATION

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

The Integration Report will display all connected products.







[APPENDIX B] AVAILABLE COMMANDS & ACTIONS

TAHOMA ZIGBEE [SHADE] COMMANDS	
Begin Lower	Moves blind to the fully closed position
Begin Raise	Moves blind to the fully open position
End Raise/Lower	Stops blind when moving

TAHOMA ZIGBEE [DIMMER] COMMANDS	
Off	Moves blind to the fully closed position
On Full	Moves blind to the fully open position
On (last level)	Last ON position
Go to %	Percentage positions between 90% & 10%

TAHOMA SMART PLUG [SWITCH] COMMANDS	
On	Turns power on to lighting or small appliance
Off	Turns power off to lighting or small appliance

TAHOMA RTS [SHADE] COMMANDS	
Begin Lower	Moves blind to the fully closed position
Begin Raise	Moves blind to the fully open position
End Raise/Lower	Stops blind movement or moves blind to the programmed "my" position if the blind is at rest

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.

A BRAND OF SOMFY GROUP

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