INTEGRATION GUIDE

SAVANT

INTEGRATION for TAHOMA® ZIGBEE & RTS

TABLE OF CONTENTS

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 SAVANT Integrators for achieving complete automation of Zigbee® and Radio Technology Somfy® (RTS) motors with the TaHoma® Smartphone and Tablet Interface.

What does this Guide contain?

The sections of this guide contain walkthroughs and methods of controlling Zigbee and RTS devices using the TaHoma® Smartphone and Tablet Interface as the bridge between SAVANT 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

DESCRIPTION

The Somfy TaHoma® Smartphone and Tablet Interface 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
- Install up to 10 TaHoma Interfaces as zone controllers to increase the RTS range (RTS only)
- The TaHoma system can support a maximum of 40 scenes with schedules per install

Each TaHoma Interface 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 Smartphone and Tablet Interface Programming Guide.

RESOURCES & APPLICATIONS

Visit www.somfypro.com for the following guides:

- Somfy TaHoma Smartphone and Tablet Interface 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 Somfy TaHoma North America App:

Google Play Store

iOS App Store

SYSTEM REQUIREMENTS

Mac OS

Savant Racepoint Blueprint Version 9.2.2 or newer

Somfy TaHoma Interface Profile

SAVANT

III. INSTALLATION

CONNECTIONS & INDICATORS

TaHoma® RTS/Zigbee Smartphone and Tablet Interface
#1811731 (With base stand included with TaHoma Interface)

REAR

Configuration Button
Press to enter Wi-Fi Mode for set up

Micro USB Port
Connect power or Ethernet Adaptor

PLUG-IN POWER SUPPLY REQUIRED
(Included with TaHoma Interface)
Connect to line-voltage to power TaHoma Interface

Power Supply
Plug-in Transformer to line-voltage outlet

Micro USB
Connect power to TaHoma Interface

Standard USB
Connect cable to Transformer

FRONT

LED BEHAVIOR:

BLUE
DIRECTLY CONNECTED Wi-Fi MODE

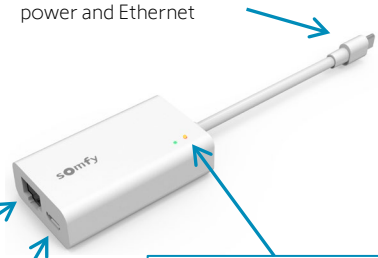
RED
POWERED, NOT CONNECTED TO CLOUD SERVER

ORANGE
STARTNG UP

GREEN
CONNECTED TO NETWORK

TaHoma® Ethernet Adaptor #1870470 (Sold Separately)
Connect for a wired local area network connection

Micro USB
Connect to TaHoma Interface 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

YELLOW
DATA TRANSFER

IV. SYSTEM PREPARATION

SOMFY SYSTEM

A fully operational TaHoma system is required prior to SAVANT 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 Interface. Interfaces must be placed within 25-35' of the devices they control.

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

SAVANT SYSTEM

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

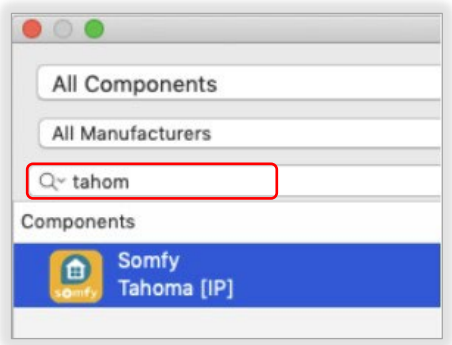
V. SET UP

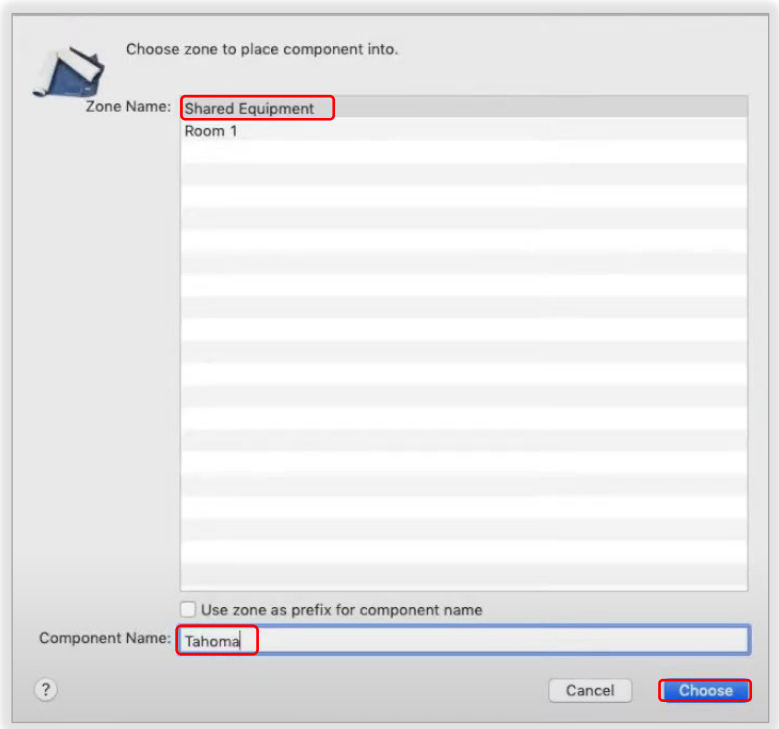
ADD TAHOMA PROFILE

A Somfy TaHoma Interface driver is required for each TaHoma Interface installed.

1) ENTER "Somfy TaHoma" into the Search field of the Library
2) DRAG-AND-DROP the TaHoma Profile into the configuration
3) ENTER a profile name in the Component Name field
4) SELECT "Shared Equipment Room"

   Note: The component must be added to the Shared Equipment Zone.
5) SELECT "Choose"
6) REPEAT step 2 for each TaHoma Interface installed

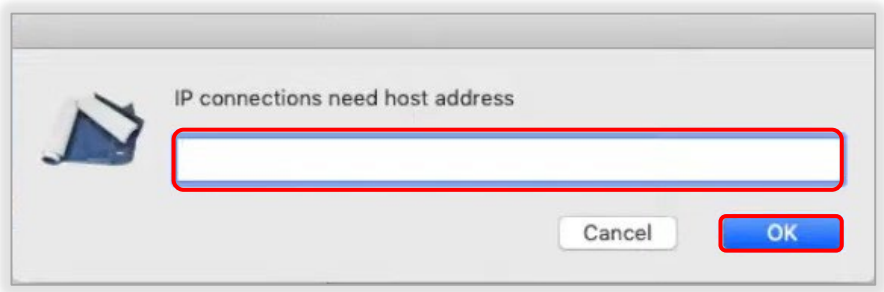




NETWORK SETUP

Third-Party Integration must be enabled in the TaHoma App. Reference the Integration Report for the TaHoma Interface IP address. Ensure that a DHCP Reservation via MAC Address of the TaHoma Interface is being used.

1) SELECT "Ethernet" under Control Ports for the TaHoma Profile
2) ENTER the IP Address of the TaHoma
3) SELECT "OK"

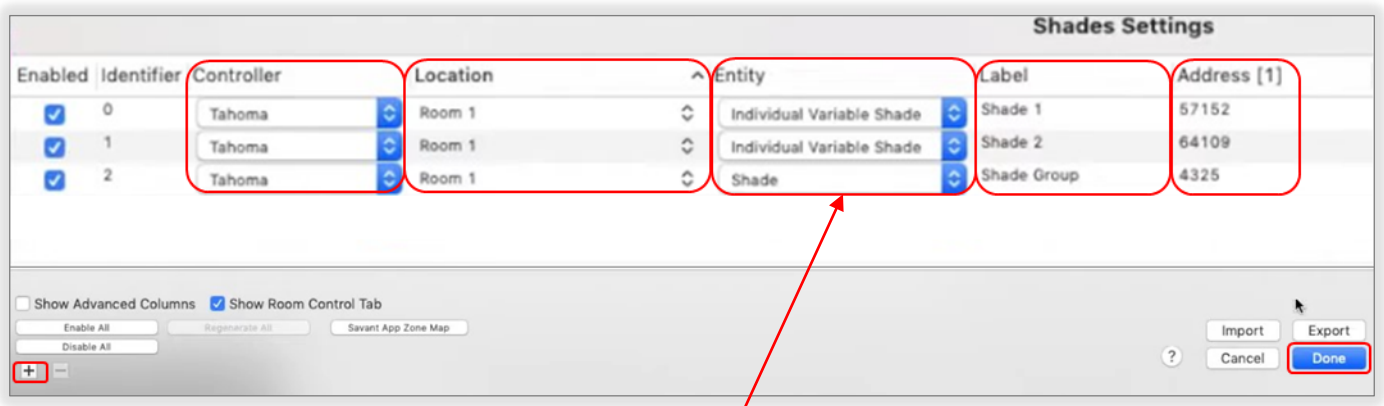


ADD ZIGBEE PRODUCTS

To add Zigbee devices, follow the steps below.
Reference the Integration Report for the TaHoma motor addresses (see Appendix A).

For Shades:

1) SELECT "Tools"
2) SELECT "Settings"
3) SELECT "Shades"
4) SELECT "+" to add a device
5) SELECT the "TaHoma Interface" profile from the Controller drop-down menu
6) SELECT a Location
7) SELECT an entity to use from the Entity drop-down menu

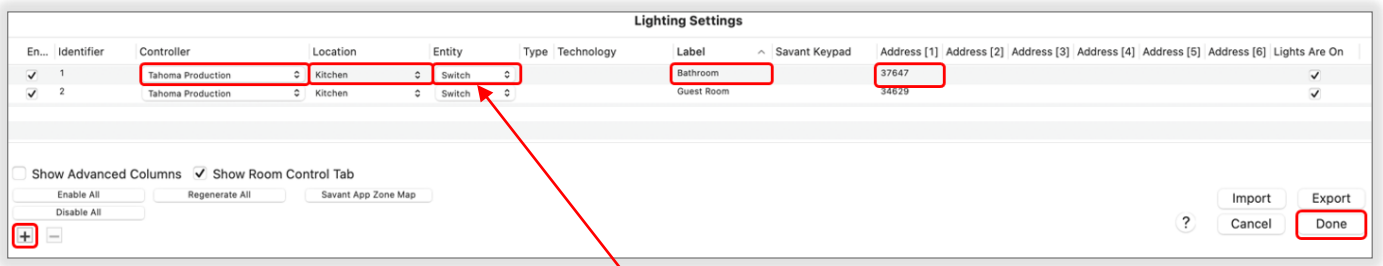


SHADE TYPE	ENTITY TO USE	FEEDBACK AND SCENES
RTS Shade	Shade	NO
Zigbee Shade	Individual Variable Shade	YES
Zigbee Shade Group	Shade	NO
Zigbee to Wired Shade	Variable Shade	YES
Zigbee Smart Plug	Switch	YES

8) ENTER a name for the device under the Label column
9) ENTER the device address from the TaHoma Integration Report in the Address column
10) SELECT "Done"
11) SELECT "Save"
12) SELECT "Upload to Master"

For Smart Plugs:

1) SELECT “Tools”
2) SELECT “Settings”
3) SELECT “Lighting”
4) SELECT “+” to add a device
5) SELECT the "TaHoma Interface" profile from the Controller drop-down menu
6) SELECT a Location for the Smart Plug
7) SELECT “Switch” from the Entity drop-down menu



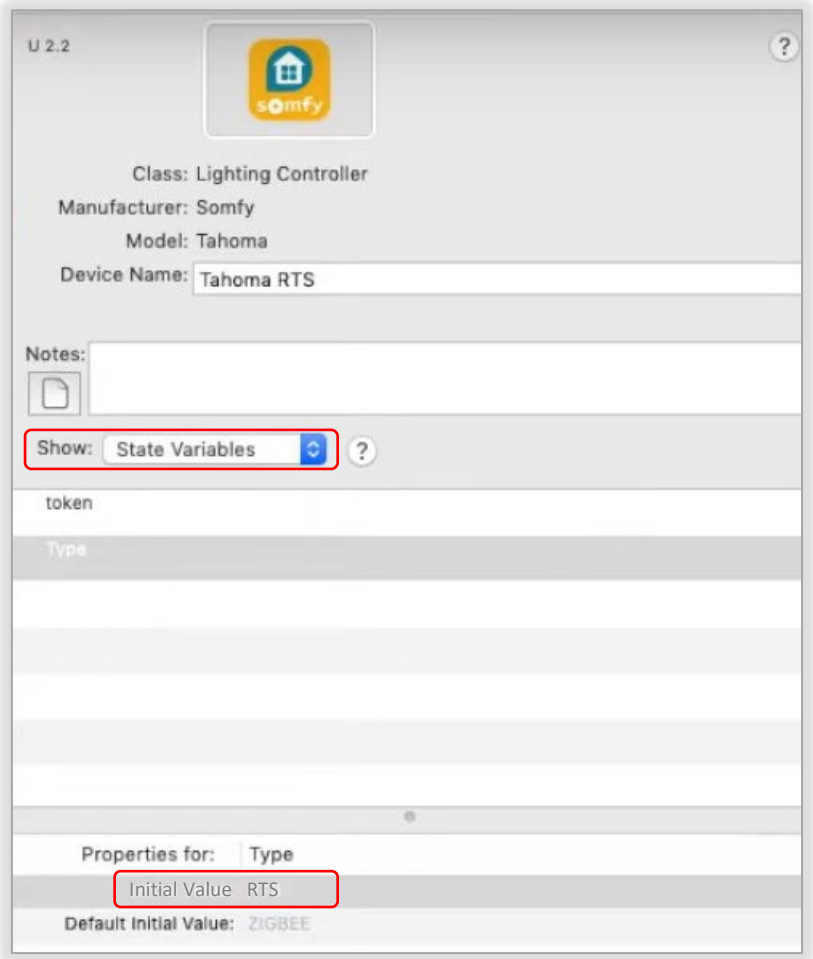
SHADE TYPE	ENTITY TO USE	FEEDBACK AND SCENES
RTS Shade	Shade	NO
Zigbee Shade	Individual Variable Shade	YES
Zigbee Shade Group	Shade	NO
Zigbee to Wired Shade	Variable Shade	YES
Zigbee Smart Plug	Switch	YES

8) ENTER a name for the device under the Label column
9) ENTER the device address from the TaHoma Integration Report in the Address column
10) SELECT “Done”
11) SELECT "Save”
12) SELECT “Upload to Master"

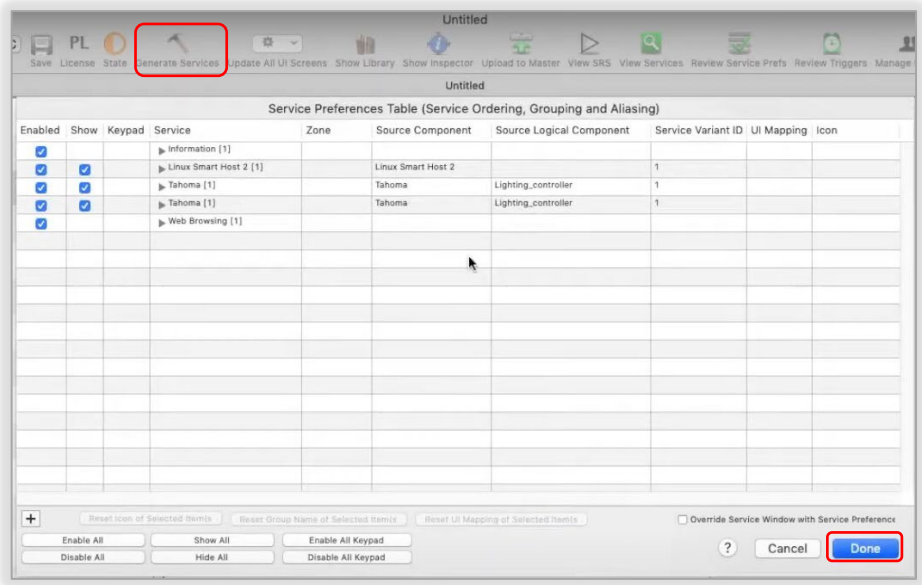
ADD RTS PRODUCTS

To add and control RTS devices, follow the steps below.
Reference the Integration Report for the TaHoma motor addresses (see Appendix A).

1) Follow the steps from Add TaHoma Profile Section
2) Follow the steps from Network Setup Section using the same IP Address
3) SELECT the new "TaHoma Profile"
4) SELECT "Show Inspector" on the Toolbar
5) ENTER "Tahoma RTS" into the Device Name field
6) SELECT "State Variables" in the Show drop down menu
7) TYPE "RTS" (Capitalized) in the Initial Value field
   Default Initial Value : Zigbee
8) REPEAT steps 1 through 7 for each TaHoma RTS Interface



9) SELECT "Generate Services" on the Toolbar
10) SELECT "Done"



11) SELECT “Tools”

12) SELECT “Settings”

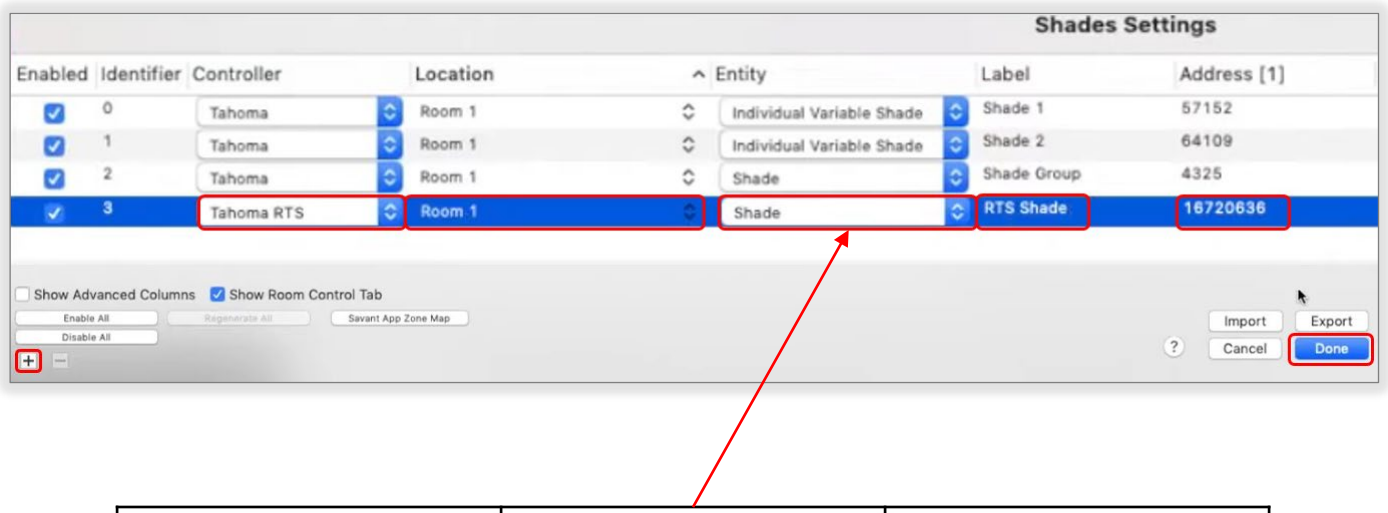
13) SELECT “Shades”

14) SELECT “+” to add a device

15) SELECT "TaHoma RTS" profile from the Controller drop-down menu

16) SELECT a Location for the Shade

17) SELECT “Shade” from the Entity drop-down menu



SHADE TYPE	ENTITY TO USE	FEEDBACK AND SCENES
RTS Shade	Shade	NO
Zigbee Shade	Individual Variable Shade	YES
Zigbee Shade Group	Shade	NO
Zigbee to Wired Shade	Variable Shade	YES
Zigbee Smart Plug	Switch	YES

18) ENTER a name for the device under the Label column

19) ENTER the device address from the TaHoma Integration Report in the Address column

20) SELECT “Done”

8) SELECT "Save”

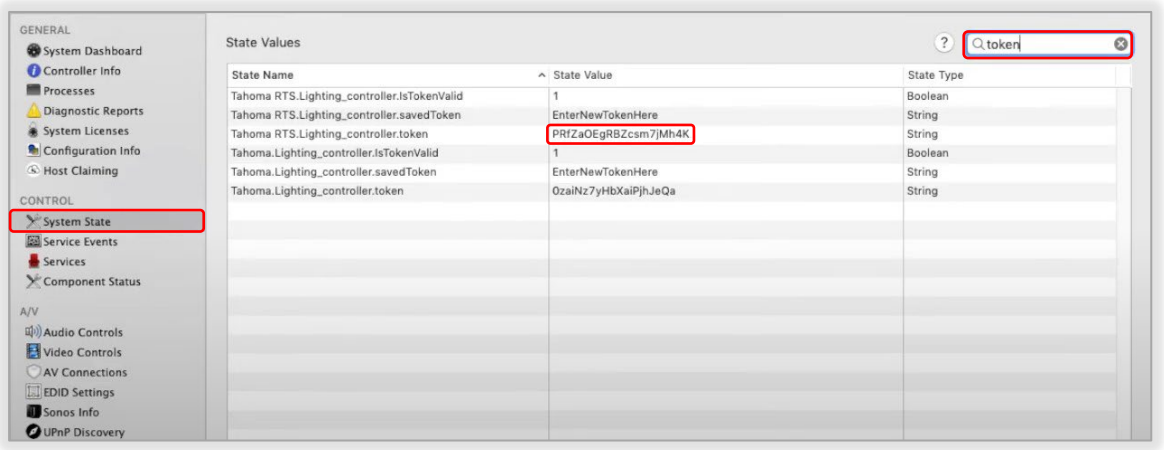
9) SELECT “Upload to Master"

REQUEST AUTHORIZATION TOKEN

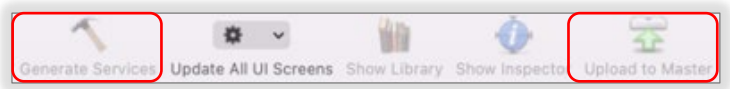
An Authorization Token is required for Third-Party Integration and must be enabled first in the TaHoma App (see Appendix A).
If a Somfy TaHoma Interface device is deleted, a new Authorization Token must be requested for the Interface device.

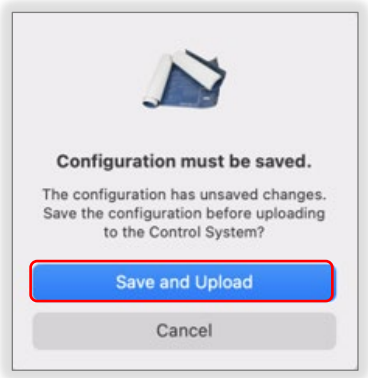
1) LAUNCH "System Monitor," SELECT "System State"
2) ENTER "Token" in the Search field
3) COPY the appropriate value for the TaHoma Profile under the State Value column

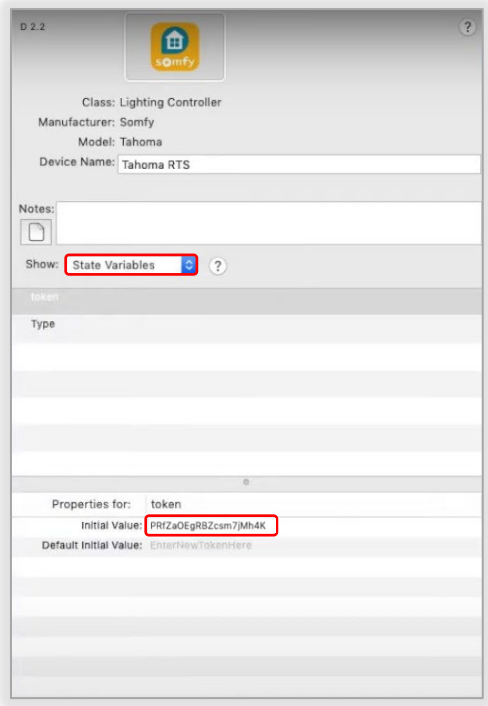
Note: If there are multiple TaHoma Interfaces, copy the correct Token for the TaHoma you are connecting to.



4) OPEN the TaHoma Profile "Inspector Window"
5) SELECT "State Variables" in the Show drop down menu
6) PASTE the value copied in step 3 into the Initial Value field
7) SELECT "Generate Services"
8) SELECT "Done"
9) SELECT "Upload to Master"
10) SELECT "Save and Upload"



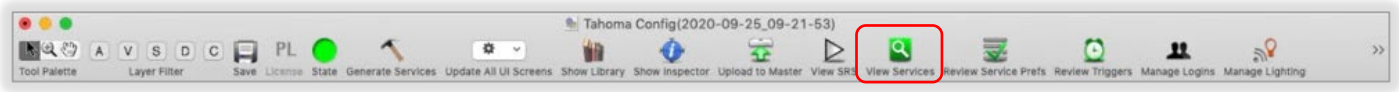




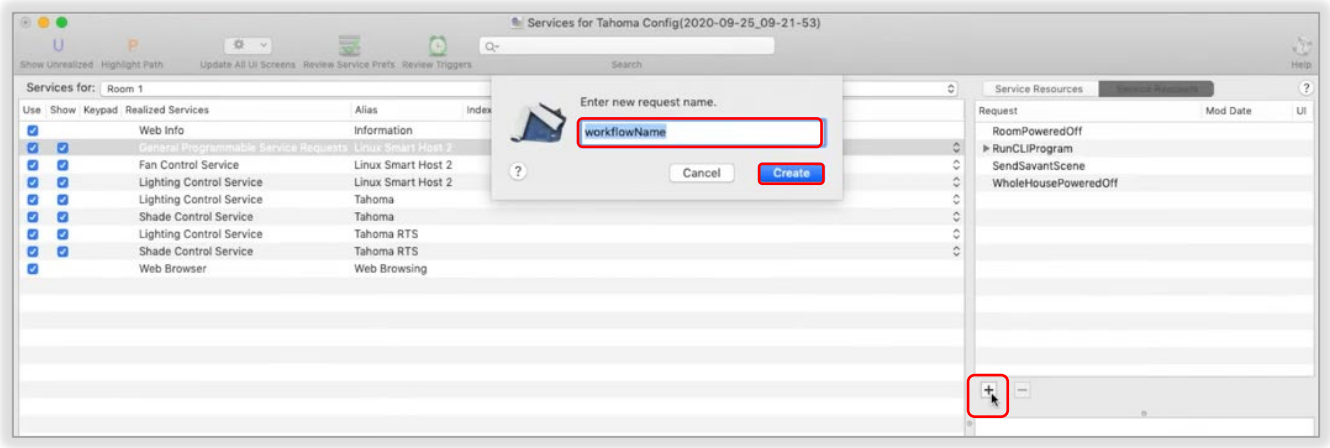
MY POSITION WORKFLOW

The "My position" function needs to be programmed under Services. To trigger the "My position," the motors must be programmed with an intermediate position first. A custom button needs to be created to trigger the workflow in the User Interface.

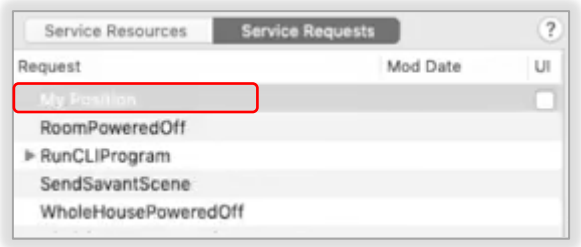
1) SELECT "View Services" from the Toolbar



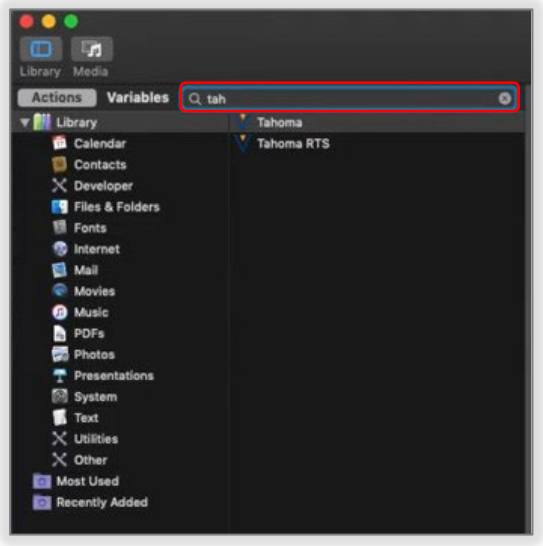
2) SELECT "+" to add a workflow
3) ENTER "My Position" into the Name field
4) SELECT "Create"



5) OPEN the "My Position" workflow



6) ENTER "TaHoma" into the Search field



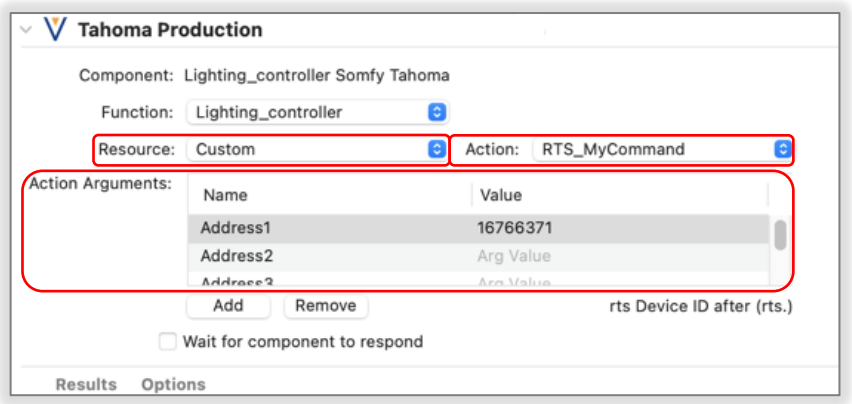
7) DRAG-AND-DROP the TaHoma device. If there is more than one TaHoma, SELECT the device being programmed.

8) SELECT "Custom" from the Resource drop-down menu

9) SELECT a "MyCommand" from the Action drop-down menu

- RTS_MyCommand – for RTS Motors
- Zigbee_MYCommand – for Zigbee Motors
- ZigbeeWired_MyCommand – for Wired Zigbee Motors

10) ENTER the motor address in the Value field
Reference the Integration Report for motor addresses



11) CLOSE the "My Position" workflow window

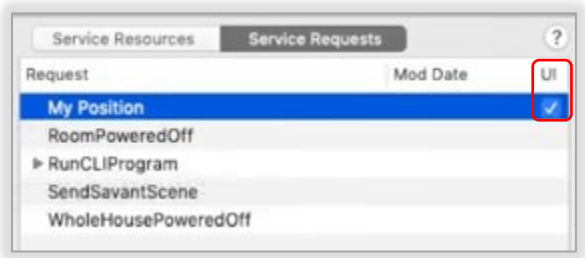
12) CHECK the UI box next to the "My Position" workflow to map the workflow to a custom button

13) SELECT "Generate Services"

14) SELECT "Done"

15) SELECT "Upload to Master"

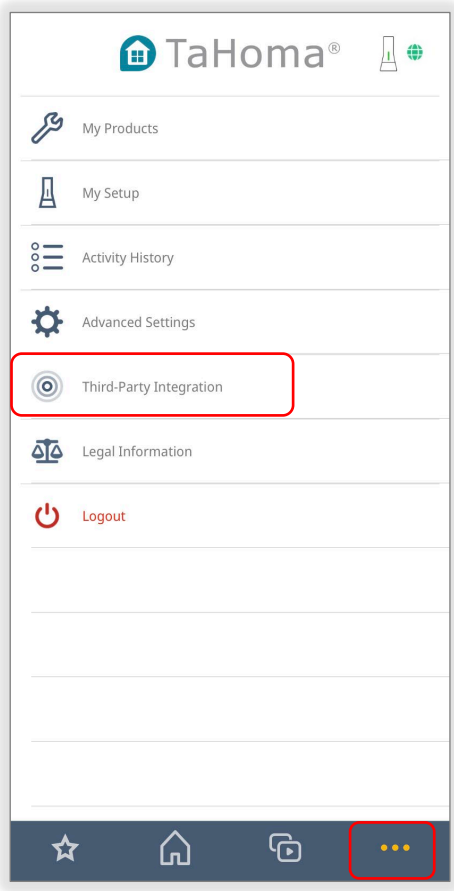
16) SELECT "Save and Upload"

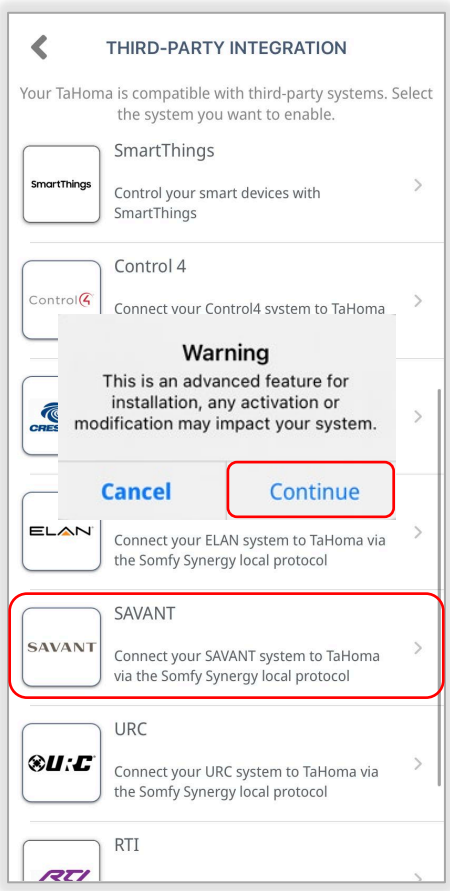


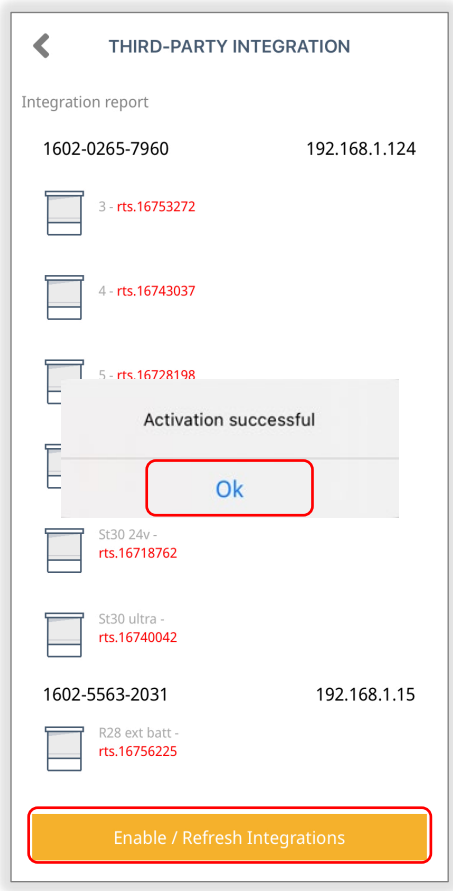
APPENDIX

[APPENDIX A] ENABLE THIRD-PARTY INTEGRATION

1) OPEN the TaHoma North America App
2) SELECT the "Menu" icon in the bottom bar
3) SELECT "Third-Party Integration"
4) SELECT "SAVANT" to view the Integration Report
5) SELECT "Continue" at the Warning
6) SELECT "Enable/Refresh Integrations"
7) SELECT "Ok"







[APPENDIX B] AVAILABLE COMMANDS & ACTIONS

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 (Requires a SAVANT custom button to be programmed)
Slider	Moves blind to a percent openness (0-100)

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

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 (Requires a SAVANT custom button to be programmed)

ABOUT SOMFY

SOMFY® has been improving everyday life for more than 270 million people by designing and manufacturing intelligent motorization solutions for interior window coverings and exterior solar protections. Somfy innovates to automate and connect shades, blinds, draperies, awnings, rolling shutters, exterior screens & pergolas for commercial and residential buildings in 58 countries across the globe. With 170+ million motors produced over the last half century, Somfy is committed to creating reliable and sustainable solutions that promote the best way of living and well-being for all.

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