



## SOMFY DRIVER SET V3 FOR MYLINK, POE GATEWAY, UAI PLUS, UAI CONNECT, AND RTS/SDN BLINDS

This driver set enables you to control Somfy RTS blinds programmed into one or several Somfy myLink device(s) (up to 16 channels each) as well as Somfy SDN blinds connected to a Somfy PoE Gateway, UAI Plus or UAI Connect device, from Control4.

The driver set includes four drivers overall: three interface drivers (one for myLink, one for UAI Connect/UAI Plus and one for PoE Gateway) as well as one driver for blinds and/or blind groups. The project may include any mix of the following interface drivers, as well as one instance of the blind driver for each blind or group you need to control:

- One interface driver for a myLink setup (if you have several myLinks, the driver connects to one of the myLinks which then communicates automatically with the others). The connection of blind drivers to this interface is automatic.

And/or

- One interface driver for a UAI Plus or UAI Connect (not both) setup. The connection of blind drivers to this interface is automatic.

And/or

- As many PoE Gateway interface drivers as you have PoE Gateway devices installed in your project. Each driver communicates with one PoE Gateway (which can control up to 4 physical blinds). You select which PoE Gateway a blind driver is connected to using a property of the blind driver itself.

---

### INSTRUCTIONS

- Copy the required myLink and/or UAI Interface and/or PoE Gateway drivers as well as the Blind driver to your Drivers subdirectory. The drivers will then appear in Composer under manufacturer 'Somfy'.
- If **myLink** is used, you should first fully configure the myLink device(s) and the controlled blinds using the iOS or Android applications. Ensure everything is working properly.
  - Even when you have several myLink devices installed, it is only necessary to connect with one device which will then act as the master (this is automatic).
  - Set the (master) myLink device to a static IP address or ensure it always receives the same IP address from the DHCP server via a MAC-based reservation.
  - Specify (and write down) the System ID under Integration in the iOS or Android application. You will need to enter it in the appropriate property for the myLink interface driver. Any string is acceptable.

- If **UAI Plus** or **UAI Connect** is used, you should fully connect the SDN blinds to the UAI PLUS or the UAI Connect controller and verify that all are operational. When using the UAI PLUS controller, configure the blinds using the Web interface (with Google Chrome) and verify that all blinds and groups are operational.
- If **PoE Gateway** is used, you should fully connect the SDN blinds to the PoE Gateway controller(s) and verify that all are operational. When using the PoE Gateway controller, configure the blinds and groups using the Utility software supplied by Somfy Systems and verify that all blinds and groups are operational.
- Add the myLink and/or UAI Interface and/or PoE Gateway driver(s) to your project. Your project may have only one instance of the myLink interface driver, one instance of the UAI driver and as many instances of the PoE Gateway driver as required (one per physical PoE Gateway interface). In the case of PoE Gateways, it is useful to give each driver a meaningful name in order to easily associate them with the corresponding physical PoE Gateway devices.

**IMPORTANT REMINDER:** the driver can simultaneously support a myLink setup, a UAI setup (but only one model of UAI: the UAI Plus or the older UAI Connect, not both) as well as a PoE Gateway (one or many) setup. You do not need to install interface drivers for interfaces not present in your project.

- If **myLink** is used, enter the IP address of the (master) myLink in Composer's Connections area. Use a fixed IP address or a MAC-based address reservation. Also ensure you have specified a System ID under Integration in the myLink configuration. Enter it in the corresponding myLink interface driver property (case is important). SDDP discovery is also supported if your myLink firmware is up to date.
- If **UAI Plus** is used, enter its IP address in Composer's Connections area. Use a fixed IP address or a MAC-based address reservation. SDDP discovery is also supported if your UAI PLUS firmware is up to date. Alternatively, a serial connection is available, but IP is preferred.
- If **UAI Connect** is used, connect the serial port servicing the UAI to the driver's serial connection.
- If one or more **PoE Gateways** are used, enter the IP address of each corresponding PoE Gateway device. Use a fixed IP address or a MAC-based address reservation.
- In the appropriate room(s), add myLink-UAI-PoE blind drivers as required, one for each physical RTS or SDN **blind** or **blind group** and set its Blind Type property. Connections to either the myLink/UAI interface drivers are automatic. For PoE Gateways, you need to select the appropriate gateway using the driver's property.
  - If you had added blind devices BEFORE ADDING either myLink or UAI interface driver, make these connections manually.
- Rename the blind devices so that you keep track of their location.
- The next information may be entered manually, but it is more easily done (recommended) by requesting a Refresh of the Devices List and then selecting the right connection/blind from the drop-down list. If the drop-down list is missing blinds and/or groups, verify the configuration of your interface driver(s).

- For RTS blinds, configure each blind driver by specifying the Device ID and RTS channel of its controlling myLink.
  - For SDN blinds, configure each blind driver by specifying the Node ID of the blind (printed on the blind motor – example: '0649D0') or a blind group number (example: '888888') you have assigned to one or more blinds using the PC or Utility software during installation.
  - PoE Gateway groups are specified somewhat differently. A default group **\*\*ALL\*\*** is always available and allows you to consider all motors (up to 4) connected to a PoE Gateway as a single motor. Other groups, numbered from 1 to 5, may be configured with the Utility software supplied by Somfy Systems.
- If running on Control4 OS 2.9 and above, you may specify the Blind Type and Blind Movement properties. They are used to customize the Navigator display.
  - If using SDN blinds and/or UAI Plus/PoE Gateway groups, you may wish to calibrate your system at this time by using the UAI Interface driver's Action 'Calibrate SDN Blinds and Groups'. This process will calculate the Full Course duration of SDN blinds and/or groups to ensure that the Navigator controls are the most accurate and flexible possible.
  - After adding blinds, refresh Navigators.

-----

#### **IMPORTANT NOTE FOR SDN BLINDS IN OS 2.9+**

When running on OS 2.9+, this driver uses the new Navigator slider for SDN blinds. While Somfy usually refers to 100% as meaning the blind is fully deployed (window fully covered), Control4 uses 100% to mean the blind is fully open (retracted) and 0% to mean the window is fully covered.

For SDN blinds and groups, knowing the Full Course duration is important for the Navigator interface. Although the driver eventually calculates the Full Course duration based on feedback from actual blind and/or group movement commands (averaged over time), it may be easier to use the UAI Interface driver's Action 'Calibrate SDN Blinds and Groups' once the blind drivers are all configured, especially for large installations. If your installation only uses groups, it is not necessary to calibrate individual blinds. Refer to the Lua Output window which provides detailed information during the calibration process to inform you of the progress.

To calibrate, the initial position of blinds is not important. For each blind and/or group, the calibration process issues a positioning 'down' command followed shortly by a positioning 'up' command. Then, the specified number (always in pairs) of calibrating operations are performed. The default of 2 (close, then open) should be sufficient for most installations. After a calibration, the blinds should be in the fully open position.

Should the Calculated Full Course value later become invalid, use the blind driver Action 'Reset Calculated Full Course'. Then, operate the blind once or twice to recalculate (you may also Calibrate your whole installation). This Action is valid for SDN blinds only.

The other important element for SDN blinds, especially for large (30+) installations is the 60-second polling cycle. Every 60 seconds, the driver polls a certain number of blinds to ensure their current position is fully

synchronized. By default, a maximum of 5 blinds are polled each cycle to prevent too much traffic between the driver and the UAI Plus. The PoE Gateway accommodates only up to 4 blinds, so this is not an issue. In large installations, say 60 blinds, it will take up to 12 minutes to cycle through all the blinds, so you may want to increase the number of blinds polled each cycle, using the Interface driver's 'Blinds Polled Each Cycle' property. Turning Debug On for this driver will allow you to see polling cycles and the responses received from the UAI/UAI Plus, as well as how much idle time there is after each cycle.

---

#### **NOTE ON 'SPECIAL UP DOWN STOP' CONNECTION**

As of 2.10.4 (and likely earlier releases of Control4 OS), an issue with the Control4 blind proxy could generate unexpected (phantom) blind movements in installations with a large number of blinds when the 'toggle' keypad connection is used. To circumvent this, a 'SPECIAL Up Down Stop' connection is provided and may be used instead of the 'toggle' connection but ONLY IF PHANTOM BLIND MOVEMENTS are noticed in the installation. This connection is more limited than the 'toggle' connection as it cannot set the keypad button LED color and it does not cause a 'stop' command to be issued if the button is pressed and held.

It is expected that the proxy issue will be corrected in a future release of Control4 OS.

---

#### **NOTE ON PROGRAMMING**

The blind driver allows you to request Intermediate Positions (Specific IP, Next IP, Previous IP). These commands are only available when using a UAI or UAI Plus controller. These commands are not supported by myLink and PoE Gateway controllers.

---

#### **USING SCENES (MYLINK ONLY)**

When myLink scenes are defined, they can be run from programming by selecting a scene from the list (...). Use the Action 'Request and List myLink Scenes' when you have made recent changes to your myLink configuration. If you are running on OS 2.6, the list of scenes is not available in programming and you must specify the scene ID or name in the appropriate Command.

The Action 'Run myLink Scene' is available only on OS 2.7 and higher.

---

#### **USING GROUPS (UAI OR POE GATEWAY FOR SDN BLINDS)**

**IMPORTANT:** when you add SDN blinds with groups configured and/or make changes to groups in existing blinds, remember to always use the Action 'Request and List SDN Groups' so that all tables are updated properly. View this as similar to doing 'Refresh Navigators' in Composer.

---

#### **SUPPORT**

For support on this driver please go to [www.somfysystems.com](http://www.somfysystems.com).

---

#### **CHANGELOG**

1.0.0 February 1, 2017 Initial release  
2.0.0 July 1, 2017 Support added for UAI PLUS and 16-channel myLink  
2.1.0 Dec. 17, 2017 Added Calibration process and STOP capability for group commands  
2.1.1 July 4, 2018 Added TOGGLE capability for SDN group commands  
3.0.0 January 23, 2019 Added support for PoE Gateway  
3.0.1 February 5, 2019 Lua error fixed in UAI Plus Interface driver  
3.0.2 March 2, 2019 Ignore invalid UAI Plus groups and enhanced Group Report  
3.1.0 March 10, 2019 Added polling management for UAI/UAI Plus, improved group synchronization, prioritization of user commands and support for Drapery SDN Gateway for UAI Plus

---

Developed by Domosapiens Inc. for Somfy Systems, Inc.  
Copyright 2017-2019, Domosapiens Inc.  
All Rights Reserved