

### (Better) Lutron QS Standalone Network Interface (NWK) Driver for Control4 version 3)

### **Quick Start Guide**

### Important note about this driver!

This driver is an enhanced version of the Lutron Standalone NWK driver available in Composer DB. It focusses mainly on simplifying the overall setup process and expand a lot the Shade experience by adding auto-discovery, auto-programming and a real Shade Group driver that operate at the hardware level for a perfectly synchronous shade group control.

This also mean this driver remain compatible with all the current Lutron QS (for NWK) drivers in Composer DB for Light, GRAFIK Eye, Motion Sensor and HVAC integration through the NWK Interface. (but give yourself a favor and don't use the Shade driver from the DB)

### Prerequisites

Before installing the drivers to connect to a Lutron QS Standalone system, you need to make sure all your QS devices are properly installed, wired and powered over the QS bus. For hardware install and wiring instructions, please refer to the Lutron manual that comes with each of the Lutron QS devices.

### **Step-by-Step guide**

### Part 1: Adding and configuring the Lutron Standalone NWK (Domaudeo) driver to Control4

**1**- Set the NWK IP using the provided Devi cel P. exe program (in Lutron SetIP Utility folder). If you plan to use RS-232, you don't need to do that.

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2 items 1 item select	1. Select Ad	lapter - Select the	NIC in this PC to use for D	evice Discov	very		R <u>e</u> fresh
	Name	Description	Stat	sı	IP Address	Subnet Mask G	ateway
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	Device Typ	be			MAC Addres:	s IP Address	Address
2	GRAFIK Int	terface			00:0F:E7:08:	43:D6 192.168.1.3	80 ??
	- 3. Device f	Properties - Edit th	ne device's properties and p	ress the "Up	odate Device'' bu	utton to reconfigure the	e device.
	Т	ag D	escription	Value			Reset
	M.	ACADDR M	AC Address	00:0F:E	7:08:43:D6		
	0	MDREV Co	ommand Revision	3			
	Pf	RODFAM Pr	oduct Family	GRAFIK	<		
	Pf	RODTYPE Pr	oduct Type	Interfac	e		
	DI	EVTYPE De	evice Type	GRAFIK	(Interface (T66)		
	IP.	ADDR IP	Address	192,168	3.1.30		Set to Default
	3 si	JBNETMK Su	ibnet Mask	255.255	5.255.0		Set to Default
	G/	ATEADDR Ga	ateway Address	192.168	8.1.99		Set to Default
	TE	ELPORT Te	elnet Port	23			Set to Default
	CC	DDEVER De	evice Code version	08.74			
4 Update Device							
	Version: 0	).15.4087 209 Lutrop Electro	anics Co. Inc.				E <u>x</u> it
	Copyright 20	SS Earon Electric	anos 60., mo.				

## **2-** Add the driver to the project and set the IP address in Connection. For RS-232, configure the binding accordingly

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Boom	License Status Trial License Verfied [49.7 hours left]	Type:
H S Boom 2		- All Types V
Boom 4	Device Address	Manufacturer:
Lutron NWK QS (Domaudeo)	Discovered Devices	- All Manuracturers V
		Control Method: All Methods V Sort: Relevance V
	Network User Name	Lutron NWK OS (Domaudeo)
	Debug Mode Off ~	Lutron 2020-02-19 2:11 PM Local
		Lutron Energi Savr Node QS EcoSystem
		Lutron Energi Savr Node QS DALI Lutron 2011-06-21 3:00 PM Loccal
		Lutron GRAFIK Eye QS Lutron 2011-06-21 3:00 PM (LOCA)
System Design		Lutron Energi Savr Node QS Int'l 0-10V/Swit Lutron 2011-06-21 3:00 PM (Coca)
Connections		Lutron Sivoia QS Shade Group (Domaudeo) Lutron 2020-01-05 7:42 PM (Local
Agents		Lutron Sivoia QS Shade (Domaudeo)
🕉 Programming		8-14 of 105 < Previous Next >
Director Status: Idle		Connected to 192.168.26.147 (SSL)  2





#### Default is *nwk*

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roperties						
Properties	Actions	Documentation	Lua			
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Device Ad	dress					
Discovere	d Devices			~		
Network U	ser Name	n <del>w</del> k			Set	Cancel
Debug Mo	de	Off		~	-	



### Go to Actions and select Discover Lutron QS Devices

🝊 Composer 2.10.6 - (Local)		
File Driver Go Tools Help		
System Design	Properties	Properties List View
System	Properties	
· • • • •	Properties Actions Documentation Lua	
■ K New Project		
🖻 😽 Home	Discover Lutron QS Devices	
	Set IntegrationID	
⊟-\≌ Main ⊕-\♥ Room	Factory Restore	
🕀 🐨 Room 2	Display Device List	
🕀 💽 Room 3	Display Phantom Button List	
⊟ 🐨 Room 4	Defeat Defeat	
Lutron NWK QS (Domaudeo)	Refresh Devices	

## Go back to Properties, the Discovered Devices field should be populated with your NWK address. Select it and click Set

Device Address		
Discovered Devices		~
Network User Name	SN:0x02b43301 INTEGRATIONID:nwk FAMILY:CONTROL_INTERFACE(6) PRODUCT:QSE(1)	
Debug Mode	Off	$\sim$

# 6- [New] Type a name in the Device Address Property, this will be the IntegrationID so keep it simple without special character

Device Address	nwk	
Discovered Devices	SN:0x02b43301 INTEGRATIONID:nwk FAMILY:CONTROL_INTERFACE(6) PRODUCT:QSE(1)	~
Network User Name	nwk	
Debug Mode	Off	~

## **7** - [New] Go to Actions and select Set IntegrationID

🕜 Composer 2.10.6 - (Local)	
File Driver Go Tools Help	
System Design	Properties List View
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E-G New Project	
🖻 🐳 Home	Discover Lutron QS Devices
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🕀 👿 Room 2	Display Device List
🗄 💟 Room 3	Display Phantom Button List
🖻 🐨 Room 4	
Lutron NWK QS (Domaudeo)	Refresh Devices

The NWK should be ready to go.

5-

**[New]** Means steps **6-7** are only needed once on a new or factory reset NWK

The NWK <u>MUST BE REBOOTED if any QS devices are physically added on the bus as it discovers</u> devices only when they are already powered on at NWK boot.

### Part 2: Adding and configuring the single shade driver

### **1** - Add the Lutron Sivoia Shade (Domaudeo) driver to the project

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<u>File D</u> river <u>G</u> o <u>T</u> ools <u>H</u> elp		
System Design	Properties List View	Items
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Boom 2	Open Y	- All Types V
Boom 3		Manufacturer:
Lutron NWK QS (Domaudeo)		All Manufacturers 🗸 🗸
Lutron Sivoia QS Shade		Control Method: All Methods V Sort: Relevance V
	Properties Actions Documentation Lua	
		Lutron NWK QS (Domaudeo)
	Driver Version 3.0.0	
	Device Address	Lutron Energi Savr Node QS EcoSystem
		Lutron 2011-06-21 3:00 PM Local
	Discovered Devices	Lutron Energi Savr Node QS DALI
	Calculated Full Cours N/A	Lutron 2011-06-21 3:00 PM (Loca)
		Lutron GRAFIK Eye QS
	Closed Offset 2	Lutron 2011-06-21 3:00 PM (Loca)
	Opened Offset 98	Lutron Energi Savr Node QS Int'l 0-10V/Swit
System Design		Lutron 2011-06-21 3:00 PM (Loca)
💫 Connections	Debug Mode Off ~	Lutron Sivoia OS Shade (Domaudeo)
Madia		Lutron 2020-02-19 9:21 PM (Loca)
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🗱 Agents		Lutron Sivola QS Snade Group (Domaudeo)
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Director Status: Idle		🚫 Connected to 192.168.26.147 (SSL) 🛛 👱 9 🔄

2-	Go to Actions and s	select Discover Lutron QS Devices	
	Lutron NWK QS (Domaudeo)	Advanced Properties           Actions         Documentation         Lua           Discover Lutron QS Devices	^

## 3-

#### Go back to Properties and check the Discovered Devices, you should see all the Lutron Qs Shade currently connected to the QS bus. Chose the one to control and click *Set*

Properties	Actions	Documentation	Lua	
Device Ad	dress			
Discovered Devices		SN:0x0	02774ae9 INTEGRATIONID:Diner1_ FAMILY:SHADES(3) PRODUCT:ROLLER(1)	
			SN:0x0	226df0f INTEGRATIONID:(Not Set) FAMILY:SHADES(3) PRODUCT:SHADE_PA
Calculated	Full Cour	se	SN:0x0	0226df15 INTEGRATIONID:(Not Set) FAMILY:SHADES(3) PRODUCT:SHADE_PA
			SN:0x0	0226df13 INTEGRATIONID:(Not Set) FAMILY:SHADES(3) PRODUCT:SHADE_PA
			SN:0x0	12a5d13t INTEGRATIONID:CDM4_FAMILY:SHADES(3) PRODUCT:ROLLER(1)
Josed Un	set		SN:0x0	J2//4aea INTEGRATIONID:Vemer6_FAMILY:SHADES(3) PRODUCT:ROLLER(1)
			SN:0x0	JZ300141 INTEGRATIONID:SUBM2_FAMILT:SHADES(3) PRODUCT:ROLLER(1)
pened Of	fset		SN-0v0	12774aee INTEGRATIONID. Diner2_TAMILT. STADES(3) TRODUCT. ROLLER(1)
			SN:0x0	2774af9 INTEGRATIONID Diner5 FAMILY SHADES(3) PRODUCT ROLLER(1)
obua Mov	da		SN:0x0	02774a9e INTEGRATIONID: Verrier2 FAMILY: SHADES(3) PRODUCT: ROLLER(
CDUY MO	uc		SN:0x0	)2a5cd0c INTEGRATIONID:Gym_right_ FAMILY:SHADES(3) PRODUCT:ROLLER
			SN:0x0	02bc3aa2 INTEGRATIONID:Loft_salon_FAMILY:SHADES(3) PRODUCT:ROLLE
			SN:0x0	02bc3a90 INTEGRATIONID:CDM3_FAMILY:SHADES(3) PRODUCT:ROLLER(1)
			SN:0x0	12a5d14d INTEGRATIONID:CDM1_FAMILY:SHADES(3) PRODUCT:ROLLER(1)
			SN:0x0	J226df2e INTEGRATIONID:(Not Set) FAMILY:SHADES(3) PRODUCT:SHADE_P/
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			SN-0v0	/22001111111EQTATIONID.(1101-301) FAMIL1.3HADE3(3) FRODUCT.3HADE_F/
			SN Ox0	2bc3a83 INTEGRATIONID:CDM5_FAMILY:SHADES(3) PRODUCT:ROLLER(1)
			SN:0x0	2774aef INTEGRATIONID: Verrier7 FAMILY: SHADES(3) PRODUCT: ROLLER(1)
			SN:0x0	2bc33f2 INTEGRATIONID:Loft chambre FAMILY:SHADES(3) PRODUCT:ROL
			SN:0x0	)2bc2f60 INTEGRATIONID:SDBM1_ FAMILY:SHADES(3) PRODUCT:ROLLER(1
			SN:0x0	)2774ae9 INTEGRATIONID:Diner1_ FAMILY:SHADES(3) PRODUCT:ROLLER(1)
			SN:0x0	J2a5d13d INTEGRATIONID:CDM7_ FAMILY:SHADES(3) PRODUCT:ROLLER(1)
			SN:0x0	027/4aeb INTEGRATIONID:Diner4_FAMILY:SHADES(3) PRODUCT:ROLLER(1)
			SN:0x0	JZ300140 INTEGRATIONID:WalkinTerrasse_FAMILY:SHADES(3) PRODUCT:R(
				12774a1 INTEGRATIONID:Vertier3_FAMILT:SHADES(3) FRODUCT:ROLLER(1)
			SN 0x0	1277b626 INTEGRATIONID Vertier 72 FAMILY SHADES(3) PRODUCT ROLLER
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[New] Type a name in the Device Address Property, this will be the IntegrationID so keep it simple without special character

Advanced Prop	vanced Properties								
Properties Actions Documentati			Lua						
Device Address			Diner2						
Discovered Devices		;	SN:0x02774aee INTEGRATIONID:Din	er2_FAMILY:SHADES(3) PRODUCT:ROLLER(1) <					
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5-	[New] Go to Actior	s and select S	Set IntegrationID	
	► TOOM 4 Lutron NWK QS (Domaudeo) Lutron Sivoia QS Shade	Advanced Properties Properties Actions Discover Lutron f Set IntegrationID Request Shade L Reset Calculated	Documentation Lua DS Devices evel I Full Course	

The shade should now be fully controlled.

**[New]** Means steps **4** and **5** need to be done only when the shade is new or factory reset.

### Part 3: Creating a shade group

#### Prerequisite

Each shade that will be part of a group need to be already added as a single shade using the Lutron Sivoia QS Shade (Domaudeo) Driver. Check Part 2 of this document for the step-by-step procedure. You need to have one single shade driver added for each of the shade you have in your project.

## **1-** Add the Lutron Sivoia QS Shade Group (Domaudeo) driver to the project

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System Design	Properties List View	Items
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E-G New Project	Blind Type Shade ~	
Home		Category
⊢-• Main	Blind Movement Open-Close ~	- All Categories -
Boom	Keypad Button Deen Anv	Туре:
Broom 2	Open V Closed	- All Types V
Room 4		Manufacturer:
Lutron NWK QS (Domaudeo)		All Manufacturers V
Lutron Sivoia QS Shade	Advanced Properties	Control Method: All Methods V Sort: Relevance V
	Properties Actions Documentation Lua	Lutron NWK QS (Domaudeo)
	Driver Version 2.0.0	Lutron 2020-02-19 2:11 PM (Local)
		Lutron Energi Sayr Node QS EcoSystem
	Status Select Shade Devices	Lutron 2011-06-21 3:00 PM (Loca)
	Phantom Button # 1	Lutrop Eperai Savr Node OS DALL
	Devices Selector	Lutron 2011-06-21 3:00 PM Local
		Lutrop GRAFIK Eve OS
	Closed Offset 2	Lutron 2011-06-21 3:00 PM Local
	Opened Offset 98	Lutrop Eperai Savr Node OS Int'l 0.10\//Swit
🛃 System Design		Lutron 2011-06-21.3.00 PM
Connections	Stop Shade If Moving No V	Lutran Silvein OC Chade Oreun (Demoudee)
	Debug Mode Off ~	Lutron Sivola QS Shade Group (Domaudeo)
Media		
11 Agents		Lutron Sivola US Snade (Domaudeo)
💥 Programming		Lution 2020/02/13/3.21 PM (COCA)
	v	8-14 of 105 < Previous Next >
Director Status: Idle		🕐 Connected to 192.168.26.147 (SSL) 🛛 👱 9 🛒

## 2-

Take a close look to the *Phantom Button #* property. It should be already set to the right value but make sure to validate it by using the Lutron NWK QS driver and Phantom Button List action

Lutron NWK QS (Domaudeo)		
Lutron Sivoia QS Shade Group	Advanced Properties	
Lutron Sivoia QS Shade 2	Properties Actions Documentation Lua	^
Lutron Sivoia QS Shade Group 2	Driver Version 2.0.0	
	Status Select Shade Devices	
	Phantom Button # 3	
	Devices Selector Select	
	Closed Offset	
System Design	Opened Offset	
Connections	Stop Shade If Moving	
Media	Debug Mode	
	1	

The Phantom Button # need to be unique. The driver will try to match the value to the next available Phantom Button # based on the number of Shade Group driver instances in the project.

Make sure to validate the Phantom Button # by going to the Lutron NWK QS Driver and trigger the Display Phantom Button List action:

🕜 Composer 2.10.6 - (Local)		
File Driver Go Tools Help		
System Design	Properties	Properties List View
System	Properties	
~ ^ <b>~</b> Ø 9	Properties Actions Documentation Lua	
E-G New Project		
🖻 🖑 Home	Discover Lutron QS Devices	
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🕀 💽 Room 2	Display Device List	
🕀 👿 Room 3	Display Phantom Button List	
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Lutron NWK QS (Domaudeo)	Itelical Devices	

This command will list the Phantom Button currently used and output on the Lua tab:

<u> </u>	Properties Actions Documentation Lua	
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Room 2		
Room 3		
∃-💽 Room 4		7
Lutron NWK QS (Domaudeo)	Lua Output Dause Scrolling Ln 3 Col 1 Clear	
Lutron Sivoia QS Shade Group	2 1001 Lutron Sivoia QS Shade Group 2	
Lutron Sivoia QS Shade 2	1 995 Lutron Sivoia QS Shade Group	
Lutron Sivoia QS Shade Group 2		
Lutron Sivoia QS Shade Group 3		

In this example, it shows 2, so the proposed "3" Phantom Button # in the Shade Group driver is right and can be used.

-

Phantom Button #	3	<b>÷</b>	V

# **3-** Select the shades to be part of the group using the Device Selector

Room 4     Lutron NWK QS (Domaudeo)     Lutron Sivoia QS Shade     Lutron Sivoia QS Shade Group     Lutron Sivoia QS Shade 2	Advanced Properties           Properties         Documentation         Lua	^
Lutron Sivoia QS Shade Group 2	Driver Version 2.0.0	
	Status Select Shade Devices	
	Phantom Button # 3	
	Devices Selector Select	
	Closed Offset 2	
	Opened Offset 98	

G Select devices	$\times$
Select devices to be used for this property	
Home House House Control House House House House House House House House Dîner 1 Dîner 2 Dîner 3 Dîner 4 Dîner 5 Verrier 1 Verrier 2 Verrier 2 Verrier 3 Verrier 4 Verrier 4 Verrier 4 Verrier 5	~
< >	
OK Cancel	



**Reset Phantom Button** 

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Then take a look at the progress in the Properties tab:

Advanced Pro	perties	
Properties	Actions	Documentation Lua
Driver Vers	sion	2.0.0
Status		Creating Group

The Shade Group should now be fully working.