This document provides additional assistance with wiring your Extron IP Link enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific Extron IP Link enabled product or the controlled device manufacturer supplied documentation.

Device Specifications:

Device Type:	Lighting Control
Manufacturer:	Lutron
Firmware Version:	Grafik Eye QS - CODE:5.30, BOOT:4.1, HW:2.1
	QSE-CI-NWK-E - CODE:7.15, BOOT:2.9, HW:1.0
	Sivoia QS - CODE:0.100, BOOT:2.9, HW:8.6
	seeTouch QS - CODE:2.50, BOOT:2.3, HW:1.1
Model(s):	Grafik Eye QS, QSE-CI-NWK-E, Sivoia QS, seeTouch QS

Minimum Software and Firmware Requirements:

IP Link Compiler	IP Link Firmware	GC Version
1.4.0	1.15	3.0.4

Version History:

Driver Version	Date	Notes
3	10/1/2010	Extron Certified. Tested on QSE-CI-NWK-E system with a Grafik Eye, two seeTouch QS panels, and a Sivoia QS shade. Added models Sivoia QS and seeTouch QS. Added Button, Button Mode, Device select and Shade Position.
2	8/2/2010	Modified the driver to accept serial numbers
1	2/18/2010	Initial version.

Driver Notes:
- Zone Select includes Fade Time; default Fade Time is 1 second.
- The Configuration Notes on pg.3 explain how to set up the driver.

**IP Link™ Device Interface
Ethernet Communication Sheet**

Control Commands & States:

Button	1-100		
Button Mode[1]	Execute	Stop	
Device Select	1-3		
Fade	1-59[2]	1-10 Min	15 Min
	20 Min	Select	
Master Level (Step)[1]	Up	Down	Stop
Preset Scene	1-16	Off	
Serial Digit 1-8	0-9	A-F	
Shade Position	0-100		
Zone Select	1-24		
Level	0-100 in steps of 1		

Status Available:

Connection Status	Connected	Disconnected
Preset Scene	1-16	Off
Level	0-100	
Shade Position	0-100	
Zone	1-24	

[1]This command has press/release functionality. The stop command is used for configuration purposes only.
[2]This value is in seconds.

Configuration Notes:

1. Use the Device Select command to select the type of device being controlled according to the following table:

Device Select	Device
1	Grafik Eye QS
2	QS Shade
3	seeTouch QS

2. Next use Serial Digit 1-8 in the driver to match the serial digit on the device that you are trying to control. This will have to be configured for every device in the system. For example, if the serial number on a Grafik Eye is 00AC123D, then you will configure the Serial Digits in the driver as the following:

   Serial Digit 1 will be 0
   Serial Digit 2 will be 0
   Serial Digit 3 will be A
   Serial Digit 4 will be C
   Serial Digit 5 will be 1
   Serial Digit 6 will be 2
   Serial Digit 7 will be 3
   Serial Digit 8 will be D

   Note: If you are going to control/monitor another device, such as a QS Shade, then you also need to configure the Serial Digits to match that device before controlling it and use the correct Device Select in the driver.

3. In addition to the first two steps, to control a seeTouch QS keypad or the front panel of a Grafik Eye QS, you must select the button in the driver that corresponds with the buttons on the device. See Appendix A in integration protocol or contact manufacturer to see what button number in the driver corresponds to what button on the device.

4. Light intensity levels on a Grafik Eye QS can be changed by using the Level command in the driver. In order to change level command, you must select zone select and fade commands. Level Status will only show level of currently selected zone.

Network communication:

When configuring the Ethernet driver, be sure device settings match that of the GC configuration.
Multi-connection can only work with 2 devices; the second user name is nwk2.

Port Type:	Ethernet
Logon Credentials Supported:	Yes
Default User Name:	nwk
Default Password:	N/A
Default Port:	23
Multi-Connection Capable:	Yes
Port Changeable:	No

Ethernet Driver Configuration Description:

Please refer to user manual for settings and changes to the network communication parameters such as: User Name, Passwords and Port Number.

Notes for the Device: