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DIGILINX[™] Application Note

Configuring Lutron[®] RadioRA[®] Products with *DigiLin*X

Introduction

This application note explains how to integrate the *DigiLinX* IP-Based Multi-Room Audio and Control system with the Lutron RadioRA system.

Before You Start

The following items are required to be on hand before you begin configuring the Lutron RadioRa product with *DigiLinX*.

- RadioRA system installed and configured with phantom buttons
- DigiLinX system with a ControLinX dedicated to Lutron RadioRA
- SwitchLinX
- TouchLinX (or other browser-based user interface)
- 3.5mm to DB-9 RS232 communications cable (included with ControLinX)
- male-to-male gender changer for the DB-9 connector on the RS232 communications cable
- DigiLinX Dealer Setup software version 1.60 or higher (installed and running on a PC).

Connecting *ControLin*X to Chronos[™] or the RS232 Interface

Refer to Figure 1 on the following page for a connection diagram.

- 1. Attach the male-to-male gender changer to the DB-9 connector on the RS232 communications cable (supplied with *ControLinX*).
- 2. Connect the 3.5mm phono connector of the RS232 cable to the *ControLinX*.
- **3.** Connect the other end of the cable (DB-9) to the RS232 port on the Chronos or RS232 Interface unit.
- **4.** Plug one end (RJ45) of a standard Ethernet cable into the Ethernet port on the *ControLinX* and plug the other end into one of the ports on the *SwitchLinX*.



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The IP-Based Distributed Entertainment Company.

Products Included: DigiLinX SwitchLinX[™] ControLinX[™] TouchLinX[™] 5. To use the *DigiLinX* Dealer Setup program, plug one end (RJ45) of a standard Ethernet cable into one of the ports on the *SwitchLinX* and plug the other end into the Ethernet adapter on the PC.



Figure 1 Connecting ControLinX to Chronos or the RS232 Interface

Entering Device Information in the DigiLinX Dealer Setup Program

Using the DigiLinX Dealer Setup program, you can enter information about the ControLinX you are configuring.

- 1. With the *ControLinX* connected to the Chronos or RS232 interface unit, start the Dealer Setup program.
- 2. Create a project or open an existing project.
- 3. Add or select a *ControLinX* that will be configured for the RadioRA system. When adding a *ControLinX*, make sure to choose the Lutron RadioRA driver in the driver list. If the Lutron RadioRA driver was not selected when the *ControLinX* was added, the driver can be selected under the IR/RS232 Settings tab.
- 4. The Info tab for the *ControLinX* hosting a RadioRA system displays in the right window pane (see Figure 1).

Info IR/RS232 Setti	ngs Labels Menu Input Sensor 🗙
Current IP Address:	
Current Subnet Mask:	255.0.0.0
Device Type:	ControLinX
Model Number:	CL100
Firmware Version:	01.06.05
Device Name:	Lighting CL Override
Serial Number:	CL100052270011610083FD
Device Comments:	
Device Summary	1
Port Name: Lighting	-
Control Type: SERIA	AL .
6	(an
Show Advanced Optic	115

Figure 1 ControLinX with RadioRA System Info tab

The Info tab contains all of the information that was auto-discovered for the designated ControLinX.

- 5. Enter any comments for the device in the **Device Comments** field.
- 6. Click Apply.

Assigning Phantom Buttons in Dealer Setup

Phantom buttons must already be programmed into the RadioRA system for the button assignments to work correctly with the *DigiLinX* system. Complete the following steps to assign phantom buttons in Dealer Setup.

1. From the selected *ControLinX*, click on the **Labels** tab.

The Labels tab for the *ControLinX* hosting a RadioRA system displays in the right window pane (see Figure 2).

Phantom Button	Button Label	-
Phantom Button 1		
Phantom Button 2		
Phantom Button 3		
Phantom Button 4		
Phantom Button 5		
Phantom Button 6		
Phantom Button 7		
Phantom Button 8		
Phantom Button 9		

Figure 2 Labels tab for the *ControLinX* hosting a RadioRA system

Click on the fields under Button Label to enter descriptive names for each of the Phantom buttons. These
descriptive names will appear on the *TouchLinX* user interface (or other browser-based user interface) used to
control the *DigiLinX* system.

Phantom Button	Button Label	-
Phantom Button 1	Welcome	
Phantom Button 2	Reading	
Phantom Button 3	Shades	
Phantom Button 4	Goodnight	
Phantom Button 5	Evening	
Phantom Button 6		
Phantom Button 7		
Phantom Button 8		
Phantom Button 9		



- 3. Click Apply.
- 4. Select the Menu tab.

The Menu tab for the *ControLinX* hosting a RadioRA system displays in the right window pane (see Figure 3). The Menu tab allows you to determine what order the scenes (phantom buttons) are presented on the lighting menu in the user interface for each room.

lighting scenes. These To configure the button the "List of Rooms" list, the left to the list on the the buttons will appear i the list on the right.	terface scene s for e , then right. n the f	e (UI) c es app each n move You c UI by n	an be assigned diffe ear as buttons in the boom, select the roo buttons from the lis an also change the o noving them up or d	erent e UI. m in st on order lown	
List of Rooms:	Roor	n 1	•		
Available Scenes		1	Room Scenes Enal	bled	- Must be checked
Reading - Lighting Shades - Lighting Soodnight - Lighting Evening - Lighting Phantom Button 6 - Lighting Phantom Button 7 - Lighting		> 1 2 3 4 5 e	Button Label		

Figure 4 Menu tab for the ControLinX hosting a RadioRA system

- 5. Each room in the user interface can be assigned different lighting scenes. These scenes appear as buttons in the user interface. To configure buttons, select a room under the **List of Rooms** drop-down menu.
- 6. Select a scene from the Available Scenes list.
- 7. Use the right arrow button to move the scenes into the room. You can add up to 17 scenes for each room. If you need to remove a scene, use the left arrow button.
- 8. Use the up and down arrow buttons located under the room listing to adjust the order in which the scenes are presented.
- 9. Click Apply.
- 10. Make sure the Room Scenes Enabled checkbox is checked.
- 11. Remember to click the **Send Configuration Files** button to send the configuration to *ControLinX* and other *DigiLinX* devices.

Disabling Flow Control on the Chronos

Use the front panel of the Lutron Chronos wall unit to ensure that flow control is set to off.

- 1. Using the main menu display on the front panel of the Chronos wall unit, select RS-232 Settings.
- 2. Select Serial Port Setup.

3. Next to the setting for Flow Control, make sure it is set to off.

Validating the Installation

After all configurations are updated, use a *TouchLinX* or web browser to validate the installation. 1. Click the **Lighting** button on the *DigiLinX* user interface.

- 2. Click one of the scene buttons you set up in an earlier step.
- 3. Ensure that the lighting scene you selected is activated by the button you pressed.