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ESI R2D7

Crestron Home™ Driver

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IPToSerial

Driver Summary

The IPToSerial manages the communication between the ESI R2D7 driver and the processor's COM port.

This driver will not have any functions when using the Home app.

For this reason we recommend creating a room that will be hidden (In this case we'll call it **rack**) to add the ESI into the Crestron Home™ user interface.

R2D7

Driver Summary

The ESI R2D7 driver is used to configure the shades available in any given room. Each room that has shades to control will need its own instance of the ESI driver defined for it. This is done by clicking the “+” of the R2D7 driver in the selected room. You can add multiple instances of the driver to a room and they will be presented as multiple tiles in the user interface.

Each ESI R2D7 interface has up to 60 Unit ID's for controlling groups of shades. They need a controller ID to be defined for each. The default ID is 01.

The ESI R2D7 can be configured to recall any of the 60 Unit ID's, and to define the name of the shades group within the configuration. The different Unit ID's will be presented as a list to select from on the user interface. The Unit ID and shade name will be represented in the following way:

XX-AAAAA

Where XX is the Unit ID (00-60) and AAAAA is the name that shade or group of shades.

03-Left Window

When defining multiple unit ID's, they follow the same notation separated by “ ; “.

16-AllWindows;02-Right Window;03-Left Window

The list in the user interface will show the items in the same order as the “ ; “ separated items. Only the name will be displayed on the user interface selector.

Let's assume that the ESI R2D7 interface has the following configuration:

Gateway 1

ID 01 - Left Sheer

ID 02 - Right Sheer

ID 03 - Left Blackout

ID 04 - Right Blackout

ID 05 - All Sheers

ID 06 - All Blackouts

You can configure the integration in a variety of ways. For instance, you can configure all the windows treatments to be under one tile, or you can configure all shades under one tile and blackouts on a different tile to provide a different user experience.

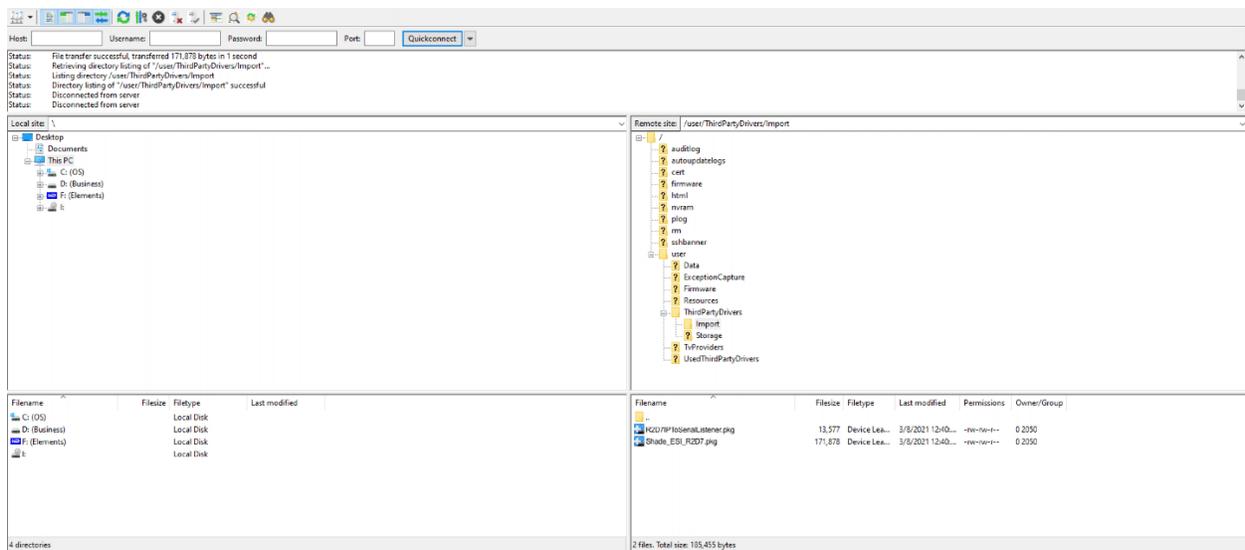
This driver comes with a 30 minute trial license. You can purchase a full license at digitalautomation.us/product/esi-r2d7-crestron-home-driver/

How to load the driver to Crestron Home™

Prior to beginning the Crestron Home™ (CH) configuration, the DA driver needs to be loaded to the CH processor. CH enforces security, so you will need to enter the username and password in order to browse the internal flash.

Once you've downloaded the *.pkg files to your computer, launch the file browser and connect to your processor. Using Toolbox or your preferred FTP file manager, transfer the pkg files to the processor.

On the processor navigate through the fort structure to the "Import" folder.



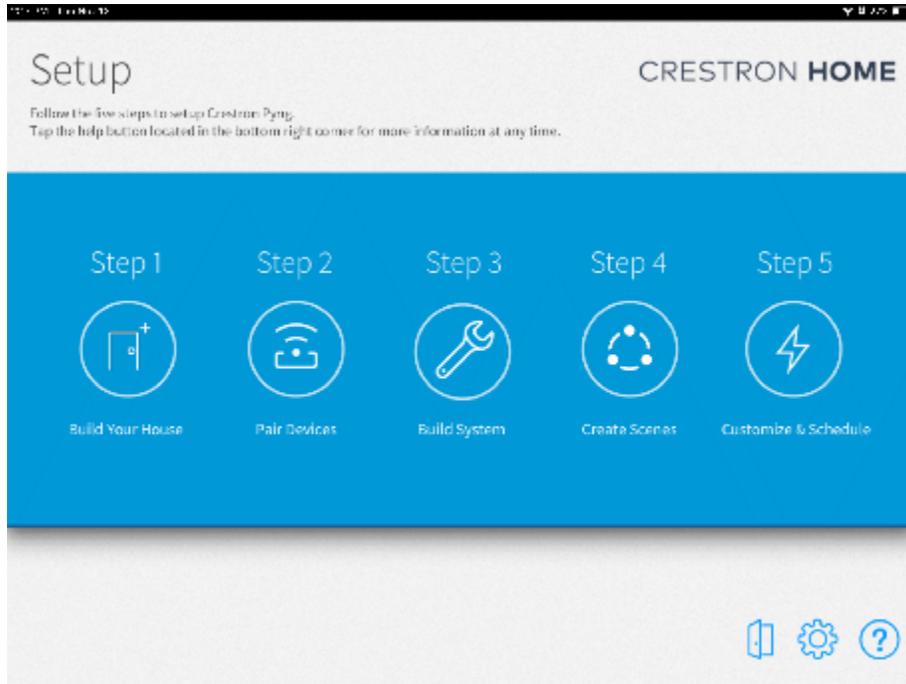
Internal Flash -> User -> ThirdPartyDrivers -> Import

Transfer the files from your computer to the Crestron™ processor, CH will automatically import the driver. Setting up the driver will then be available through the Crestron Home™ configuration app.

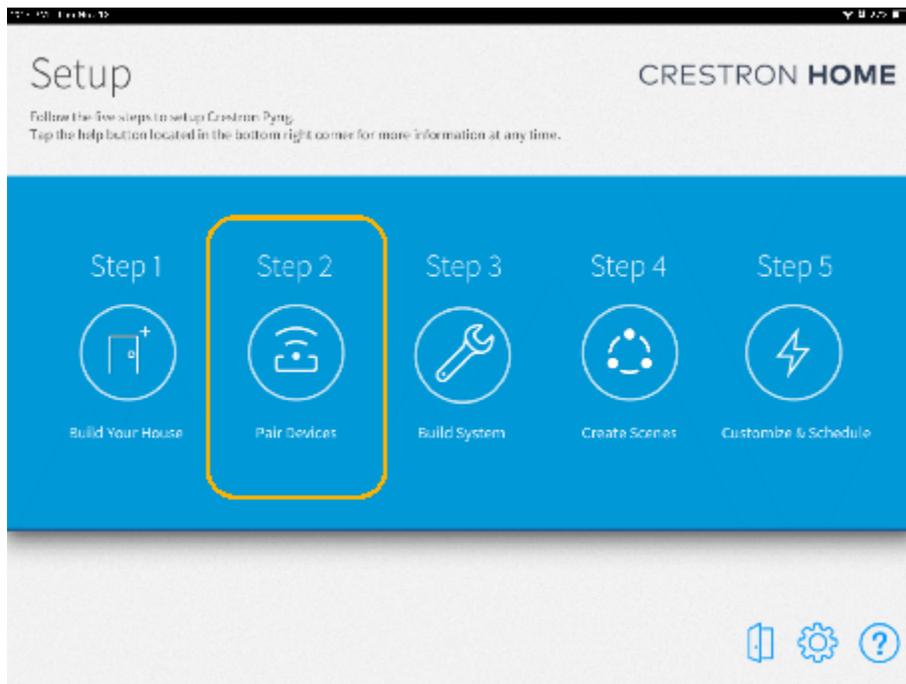
Note: For more details on installing or updating the driver follow the instructions on https://support.crestron.com/app/answers/detail/a_id/1000526

IPToSerial / Setup Instructions

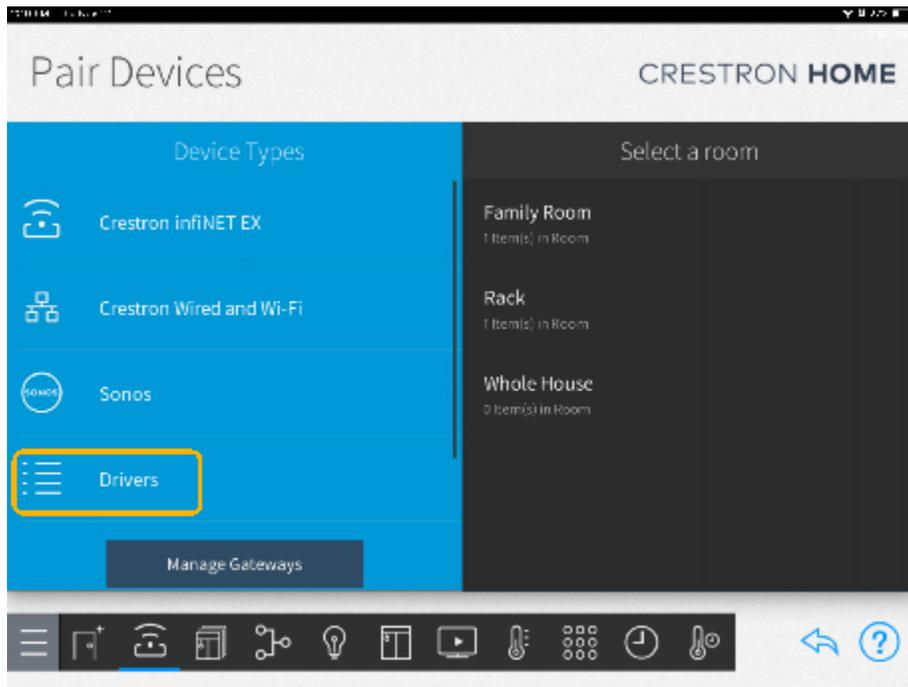
1 - Launch the Crestron Home™ Setup app.



2 - Select "Step 2 - Pair Devices".



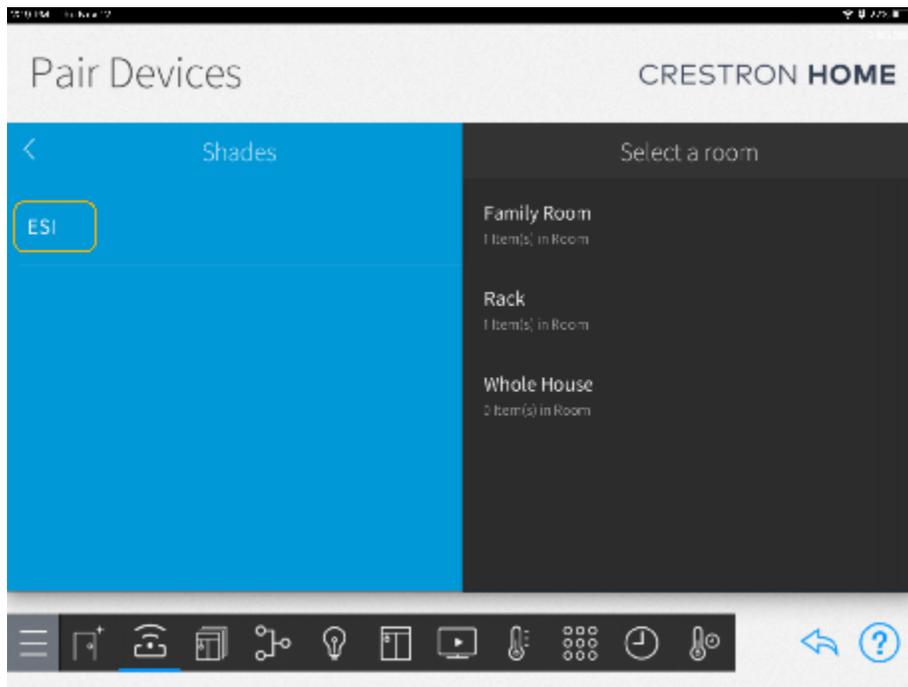
3 - Select **Drivers**.



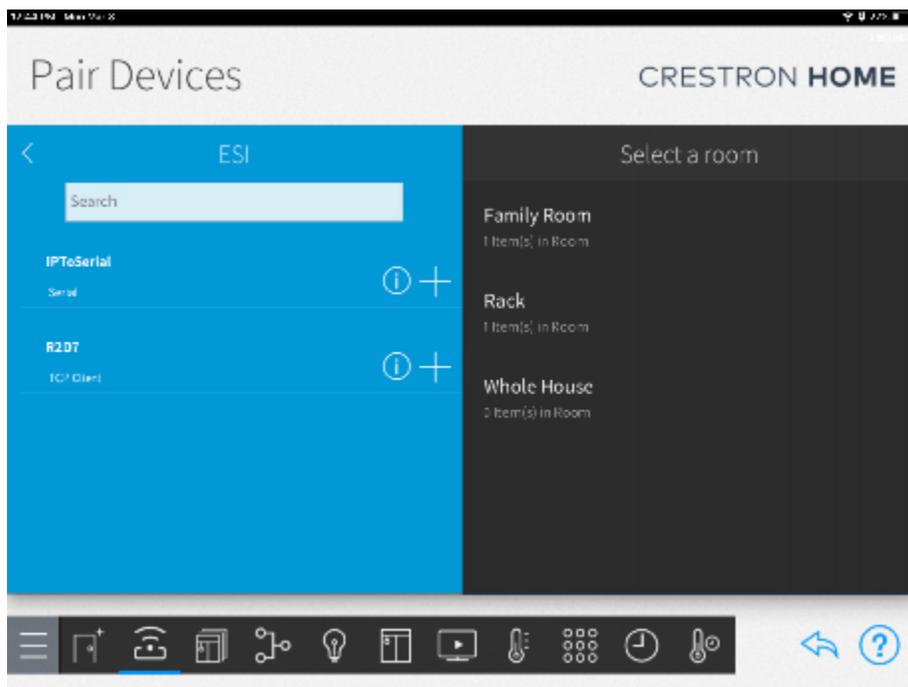
4 - Select **Shades**.



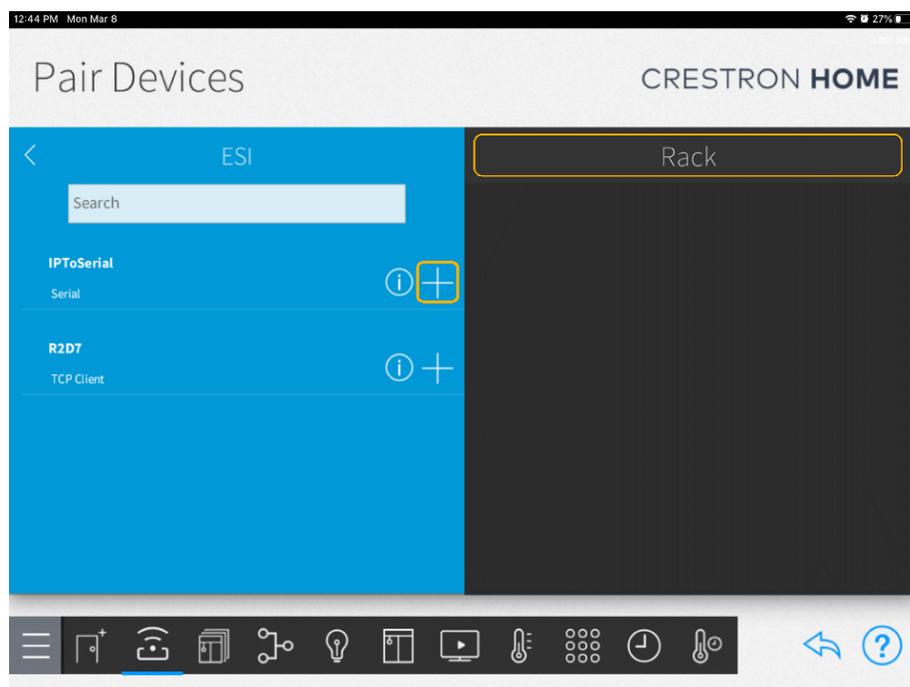
5 - “**ESI**” should now be an option, select “**ESI**”.



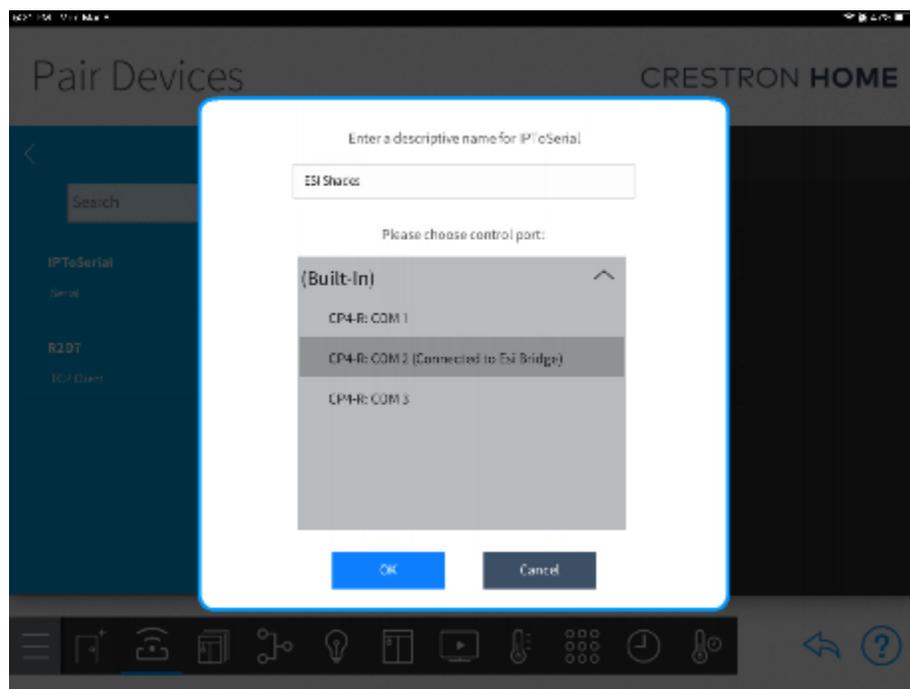
There will be 2 items available: **IPToSerial** and **R2D7**.



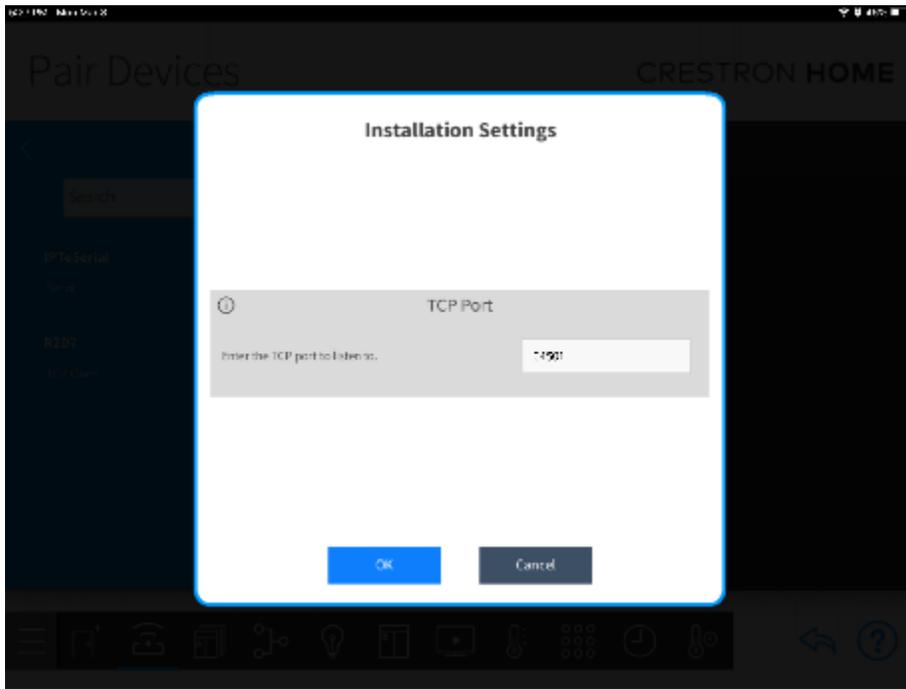
Select the Rack room (or room where you will add the IPToSerial driver).
Add the IPToSerial Driver by clicking the “+” button.



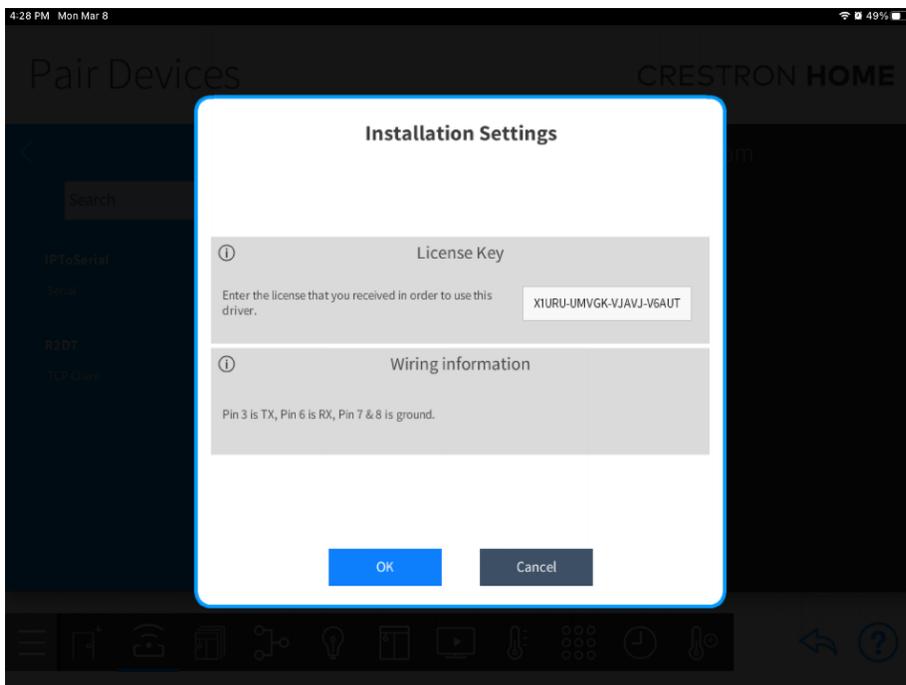
You will be prompted to type a name for the Gateway. You will also be asked to select the COM port that will be used for communication to the ESI bridge interface.



After that you will be asked for a TCP port. By default the driver uses **64501**. If you are using multiple ESI R2D7 interface's, then each interface will need its own IPToSerial driver with an unique name and TCP port.

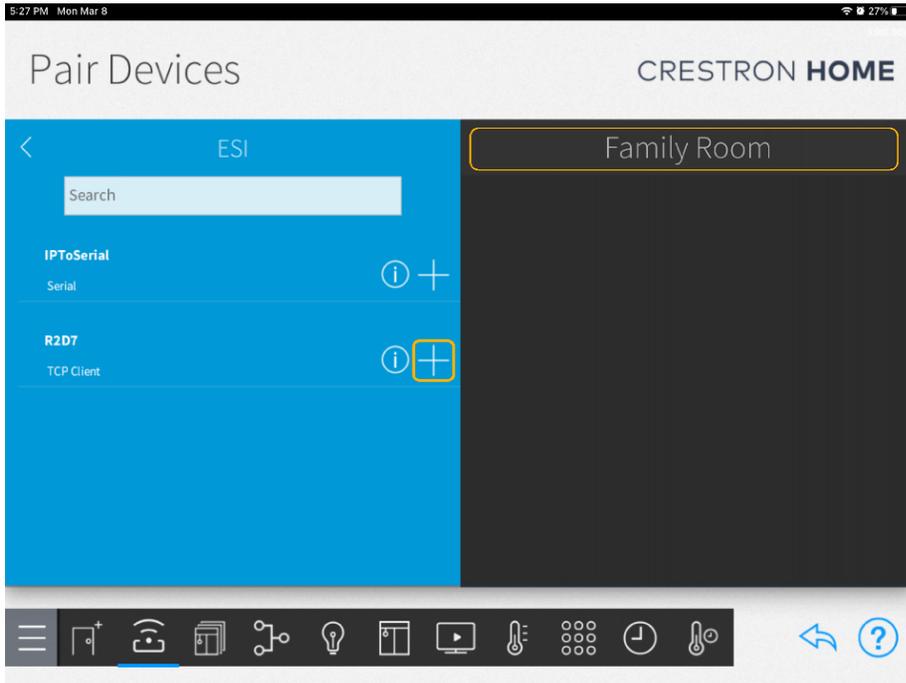


You'll be prompted to enter the license code. As default you will find a 30 minutes license code as part of the settings. Full license codes can be purchased on the Digital Automation website. www.digitalautomation.us



R2D7 / Setup Instructions

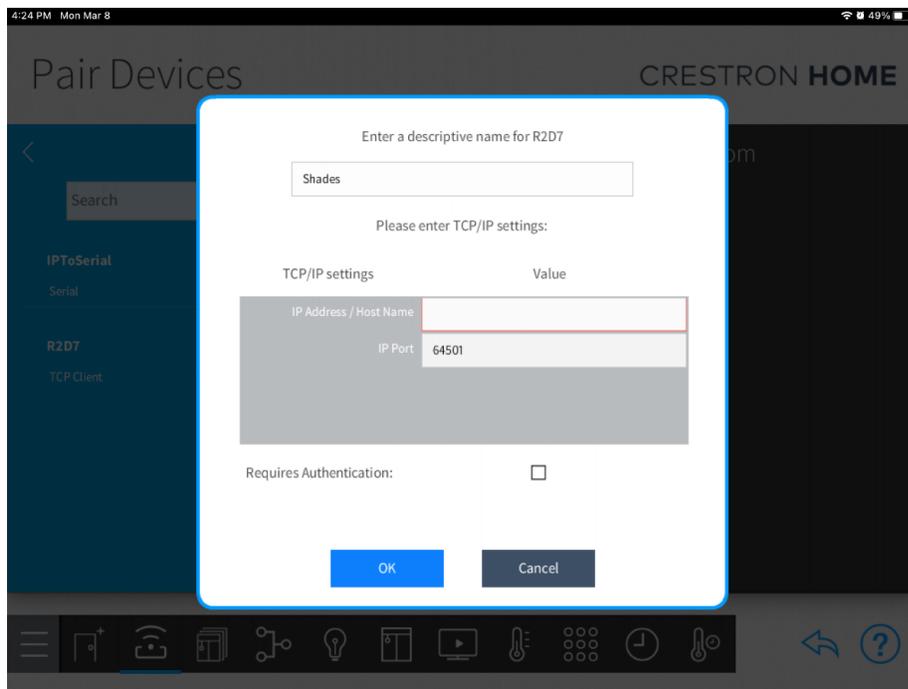
Select the room you want to add to the shades control. Hit the R2D7 “+” to add an instance of the driver.



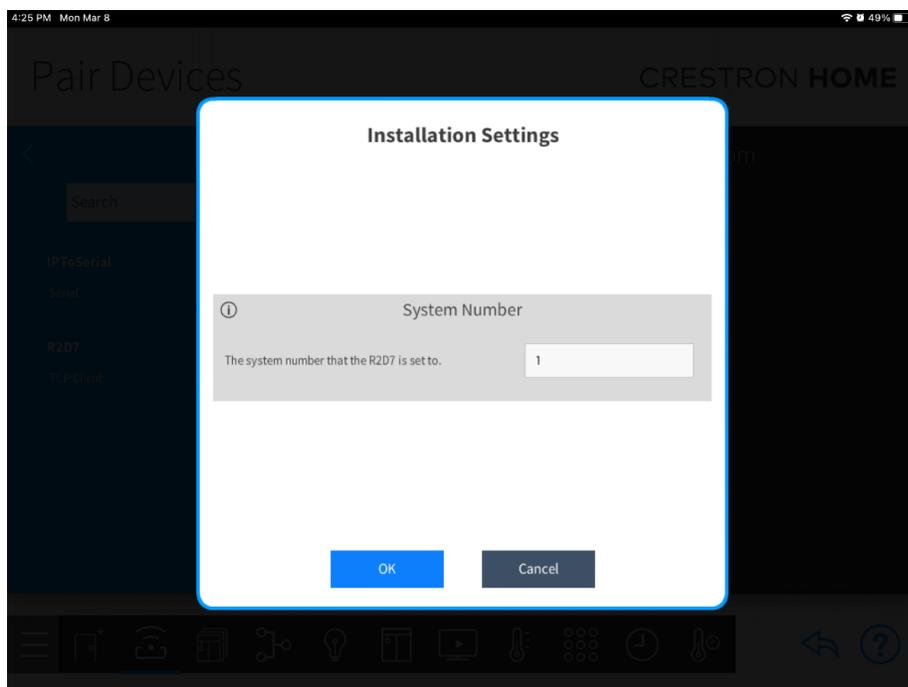
The name field is the name that the ESI tile will have in the user interface. Insert user interface and configuration.

Enter the loopback system number **127.0.0.1** in the IP system number field. Enter the port used for the IPToSerial driver instance you want the ESI driver to communicate with (By default this is **64501**).

Make sure the “Requires Authentication” is **not** checked.

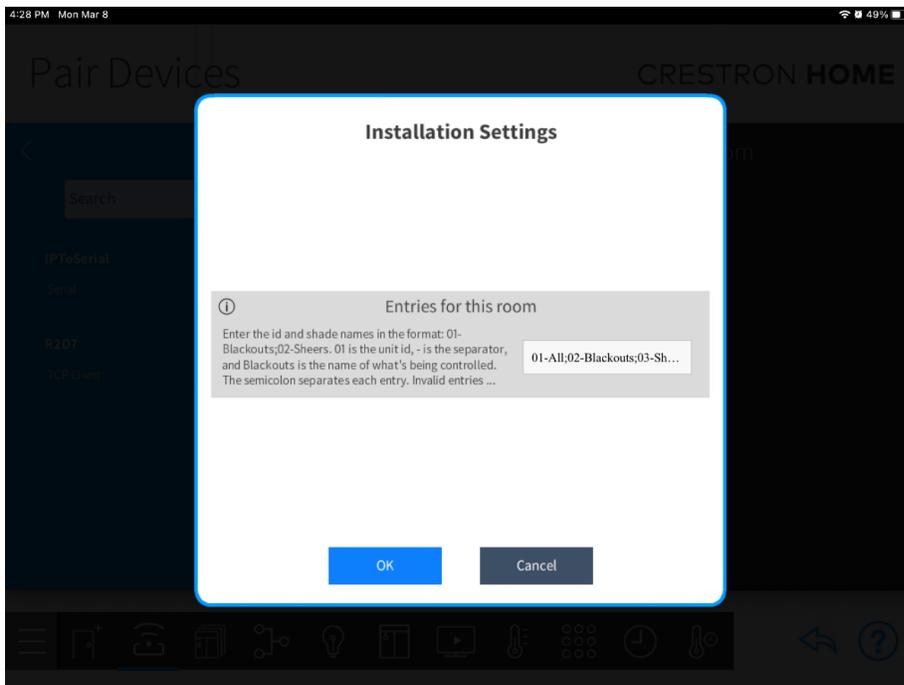


Enter the R2D7 address. By default the system number is set to 1.



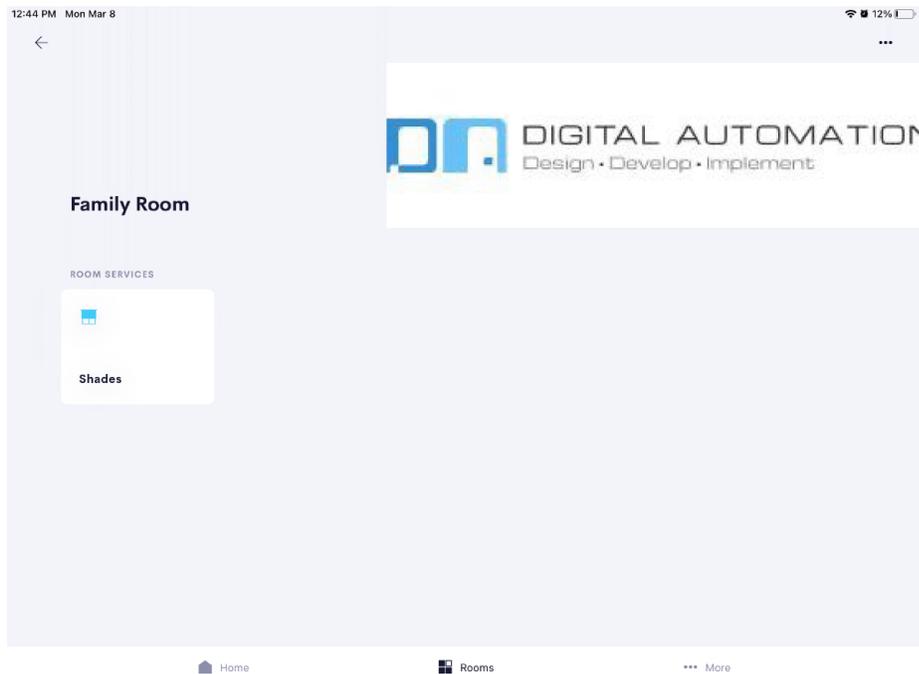
Enter the unit number you want this room to control. In the order you want them to appear on the user interface.

06-Blackouts;05-Shades

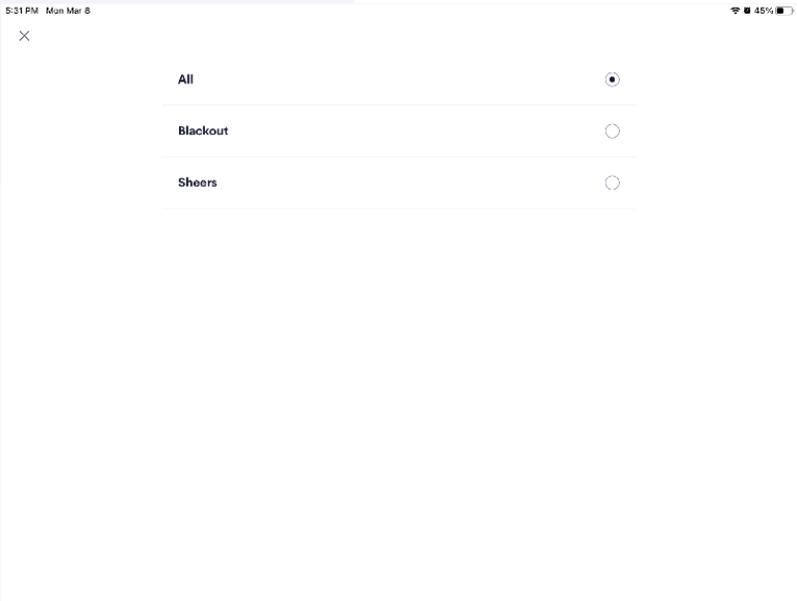
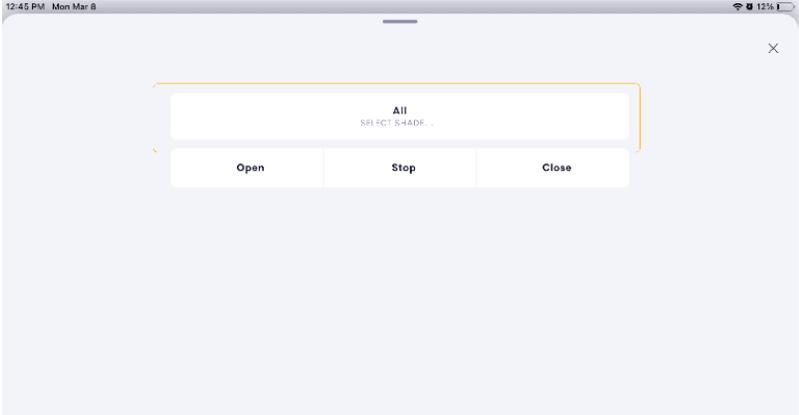


Configuration

Once you have entered all the information, press OK and the system will attempt to connect to the ESI R2D7 bridge. Once the busy dialog goes away and you are back at the screen to select a driver, you are done. You may then start the Crestron Home™ app, a new tile will be available on the home screen under the room control section.



Once you tap on the new R2D7 tile, the user interface will switch to the shades control panel.



Release Notes

1.00 - Initial release

This release will control R2D7 shades through ESI's bridge.

1.2

Updated to SDK version 6.000.0010.

1.3

Fixed bug where the quick action sequences was sending the wrong command for channels with a single digit

1.4

Added 2 additional quick actions that accept a duration

1.5

Version number sync up

Note: Driver was tested on CP4-R with firmware version 2.4508.00060 running HomeOS version 3.005.0074.

Drivers are built using SDK version 6.000.0010, Home app version 1.9.2 on TSW and version 1.12.11 of Home app on iOS. Driver is not guaranteed to work on any beta software release from Crestron™.



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