TRO.Y / 2
Programming Guide

201559 TRO.Y / 2 IP Gateway
302296 TRO.Y Off-line Site File Editor

DOC.#400114

TRO.Y / 2 and integration connections use the following protocols and standards;

EIA/TIA-561
TIA/EIA-568B
ANSI/TIA/EIA-232-F-1997
ANSI/TIA/EIA-485-A-1998
IEEE 802.3at/bt
RFC 854 Telnet
IETF HTTP 1.1 RFC 9112
ITU-T X.274|ISO/IEC 10736:1995 TLS 1.3
Matter 1.1 Connectivity Standards Alliance

Zigbee 3.0
Thread 1.3
BLE 5.4
Synergy 2.0 API
RTS
SDN 2.0
DHCP IPv4 RFC 2131

Table of Contents

Introduction

This is a reference guide for the commissioning of a TRO.Y / 2 system. TRO.Y / 2 is the central gateway and controller for any Screen Innovations shade, screen or drapery products.

Note: If your project contains any Zigbee or RTS motors, you must use a compatible wireless bridge such as the SI HELEN, J4M35, Link ProZ, or TaHoma Switch. When using a Link ProZ TaHoma, or TaHoma switch you must complete your configuration using the TaHoma app in combination with your TaHoma/LinkPro Z.Before binding any RTS products to a TaHoma or LinkPro Z, all RTS products must be fully commissioned. Up and Down end limits, any “my” positions, and group hand controls (Situo remotes, DecoFlex switches, etc.) must be fully configured before working with TRO.Y / 2.

Before starting the setup process, unbox the TRO.Y 2 unit and connect the PoE switch or PoE injector. Verify the status LED light is solid red.

Getting started with TRO.Y / 2

1. Discover TRO.Y / 2 on the network (Pages 5-6)
2. Scan QR code on this page or goto https://support.screeninnovations.com/accessories/troy/ and download the latest TRO.Y / 2 firmware (Pages 14-15)
3. Using one of the four 485 ports Connect TRO.Y / 2 to your 485 network (Janus, or other PDU or other 485 data hubs) and/or connect your wireless bridge (Helen, J4M35, Link ProZ, TaHoma, or TaHoma Switch) (Pages 23-27)
4. Discover and configure Devices (Pages 30-39)
5. Connect any 3rd party control system(s) (Pages 19-22)
6. Save Site file and integration report (pages 43-46) and enjoy your new shade or screen system

General Off-line Procedure Overview

1. Scan the QR code or go to TROY support page / Resource section to download the latest version of the TRO.Y site file editor.
2. Click on the TRO.Y site file editor.
3. Configure settings for integration/devices.
4. Save site file and integration report.

Note: Throughout this guide, the green dot 🟢 next to any topic means that the settings/features are also available in the off-line editor.

TRO.Y2 is 100% backwards compatible with TRO.Y. TRO.Y2 adds a couple of new features that was not available when the original TRO.Y was manufactured. This includes a real-time clock and adding 12v DC power on the High-speed serial port (now labeled HELEN). The last TRO.Y firmware is version 2.17 which is available on the SI website. TRO.Y2 ships with an initial firmware version 2.17. If you are using a TRO.Y and would like to move forward using the latest TRO.Y2 firmware, then you must first perform a boot-loader operation which can be found on page 47.

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Note: In this document we highlight the sections which only apply for future firmware releases on TRO.Y2 with this highlighted box

TRO.Y / 2 Discovery Procedures

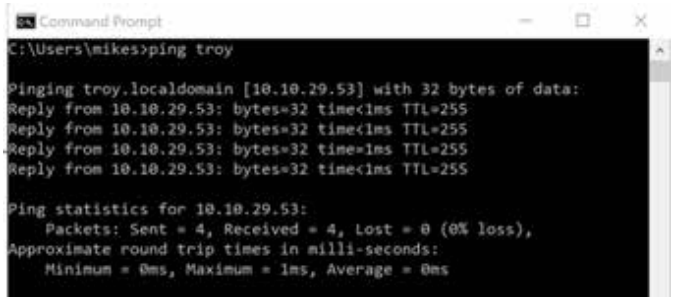
Using a standard web browser, connect to TRO.Y / 2
Use one of the following methods to determine TRO.Y / 2's IP address:

- without DHCP server
  The default IP address is 169.254.169.254

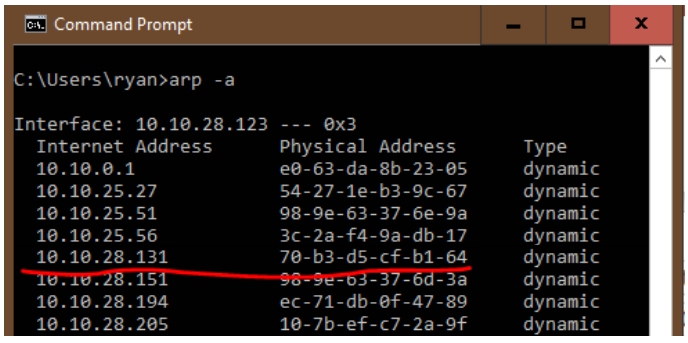
- with DHCP server
  If your project contains a DHCP server, the fastest way to discover TRO.Y / 2 is using a standard "ping" comand.

Note: All TRO.Y / 2 MAC addresses start with "70:B3:D5" and can be found on the bottom label
TRO.Y / 2 will not respond to any static pings or arp commands unless the security bypass has been activated by pressing the reset button once, and the status LED indicator is flashing.

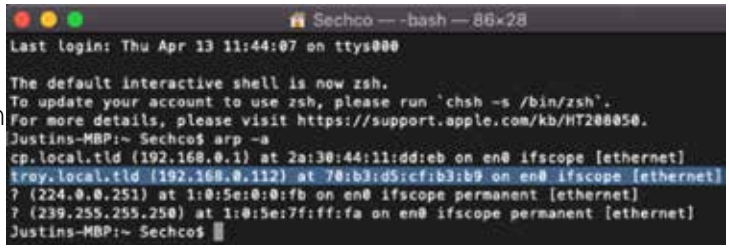
- **Windows Command Prompt** (ping troy)
  Using the windows search command, type in "CMD", then click to open the command prompt, next type "ping troy" to see the current DHCP IP address.



- **Windows Command Prompt** (arp -a)
  Using the windows search command, type in "CMD", then click to open the command prompt, next type "arp -a" to see the list of mac addresses.



- **Apple Terminal**
  On your MAC open Terminal by clicking the Launchpad icon in the Dock, and type Terminal in the search field, then click Terminal, you can now use the "arp –a" command to find the TRO.Y / 2 MAC address



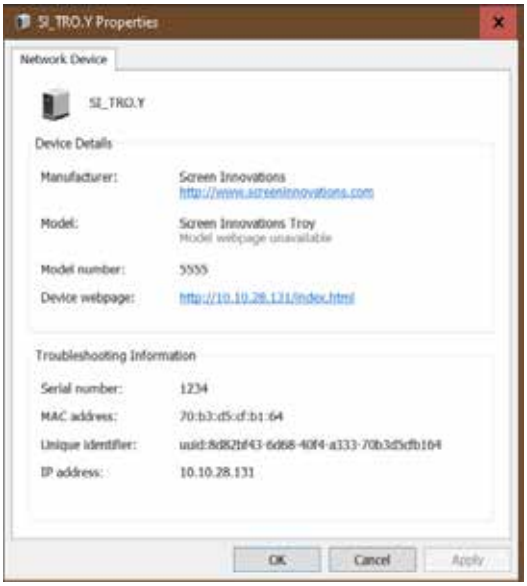
- Using universal plug-and-play with Windows

Open the file explorer and click on the network icon. SI_TRO.Y is listed in " Other Devices" in network devices.

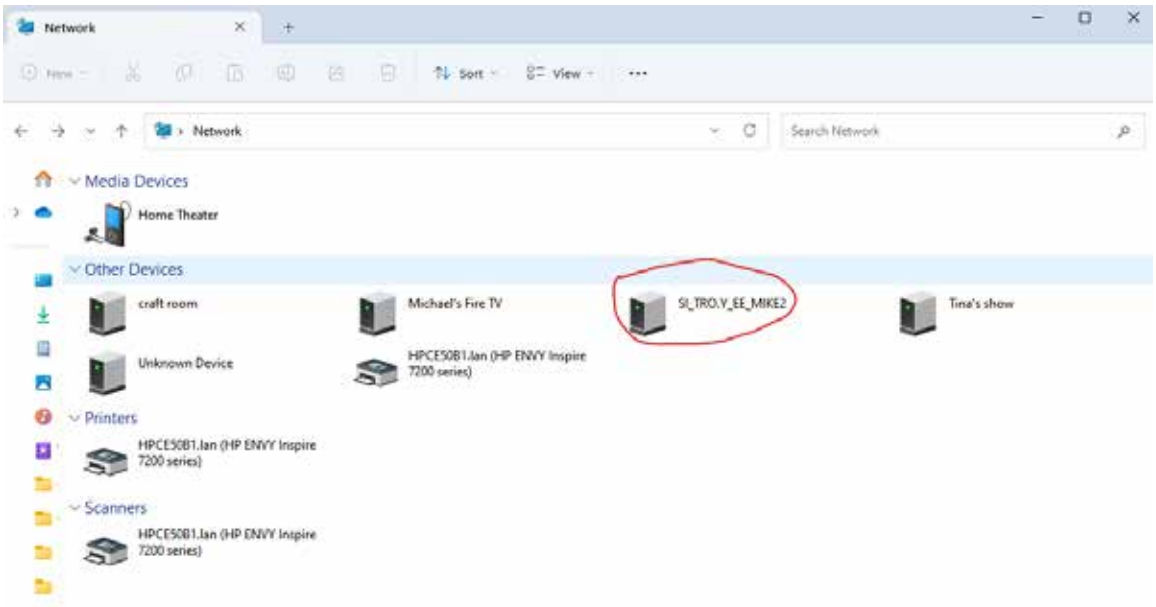
- Double-click the TRO.Y / 2 icon to bring up the web browser,

OR

- Right-click the TRO.Y / 2 icon to bring up the TRO.Y / 2 properties including the IP address



The Home menu has all five selections:

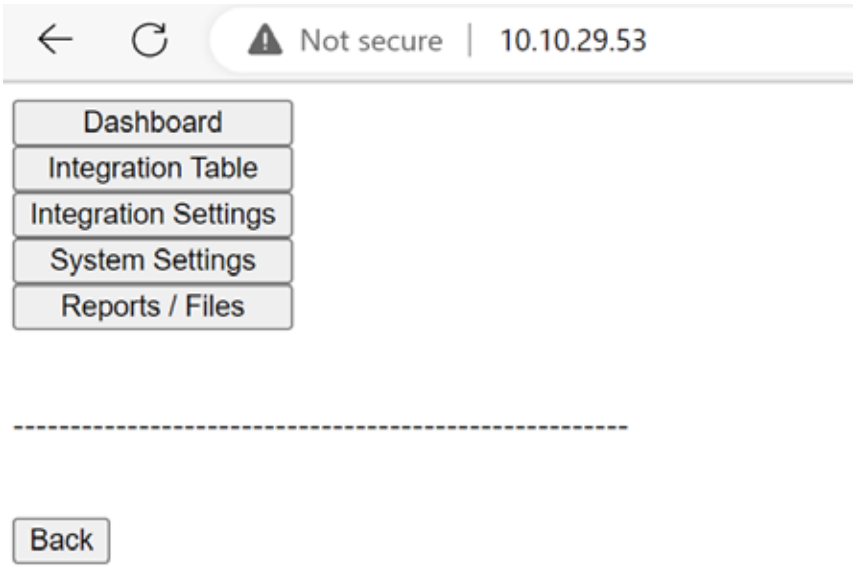


If you cannot see TRO.Y / 2 in your other devices then go to page 49 - 51 for any additional information on how to turn on UP&P for your computer.

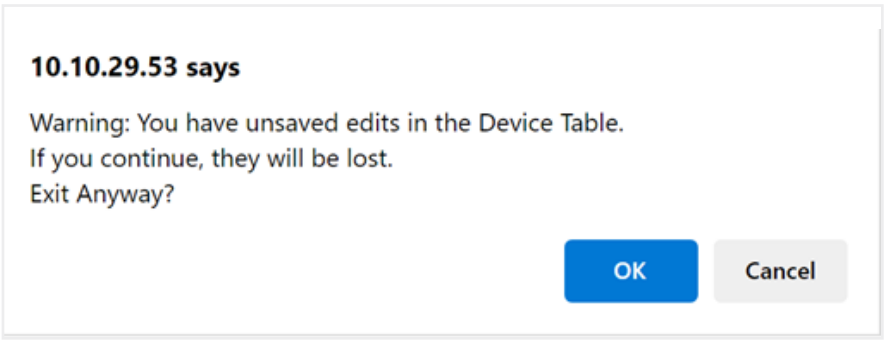
Web Browser Interface Etiquette

As with any web browser interface, refrain from using the standard back, forward or refresh buttons as you can lose data that has not yet been saved or sent to TRO.Y / 2.

Pro-tip: You can auto-hide your address bar by going into your web browser settings to help avoid this situation.
The refresh button is ok, but you can lose data that has not been saved or sent to TRO.Y / 2 on the current page.



Inside the TRO.Y / 2 Interface you can use this back button, but if you have any unsaved or accepted edits, these also may be lost, so a pop-up message will appear with this warning.
The refresh button is ok, but you can lose data that has not been saved or sent to TRO.Y / 2 on the current page.



TRO.Y / 2 Home Menu

The TRO.Y / 2 Home menu contains 5 sub-menus:

- **Dashboard** – This menu provides system information and diagnostic features. The Wireless, Telnet server and client and device status. You can also restrict any further set up configuration menu access by creating a Password that must be entered to pass this menu.

- **Integration Table** – This selection provides access to the Device table, Group table, Super Group table and Telnet Client table.

- **Integration Settings** – This selection provides access to the Events, Scene, Telnet server, Telnet Client, Serial Control, Wireless Bridge, and System Integration ID configuration settings.

- **System Settings** – This selection provides access to the user interface password, system name, network configuration, System Time, location, firmware loading, and system restart. You can also view the current firmware, UI version. and the MAC address.

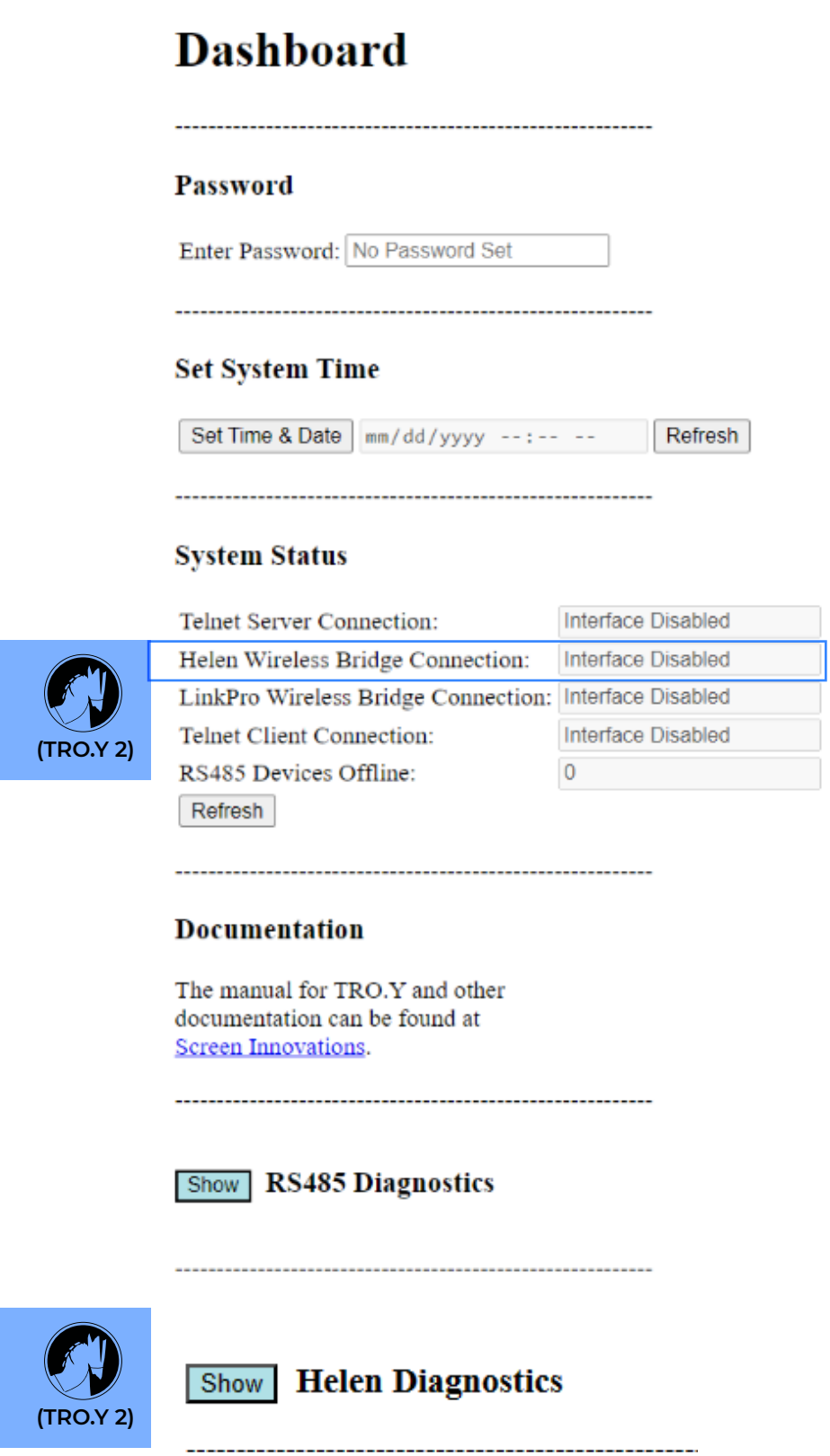
- **Reports/Files** – This selection provides access to creating/loading site files, Integration reports and site backups.

TRO.Y / 2 Data storage

While designing a SI shade/screen system, you will create data stored across multiple devices such as motors, keypads, and gateway devices including the web browser that you are using to configure or build site file for TRO.Y / 2. During the commissioning, you may experience slight delays depending on which device(s) TRO.Y / 2 is communicating with.

Best Practice: Before leaving your unfinished commissioning process, make sure to commit the data to TRO.Y / 2 and other devices, and consider making a site backup. In other words, leaving the browser before saving to TRO.Y / 2 and or saving a site file can cause you to lose your data which is currently being stored in the web browser.

Dashboard



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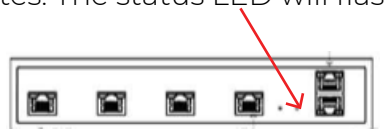
(TRO.Y 2)

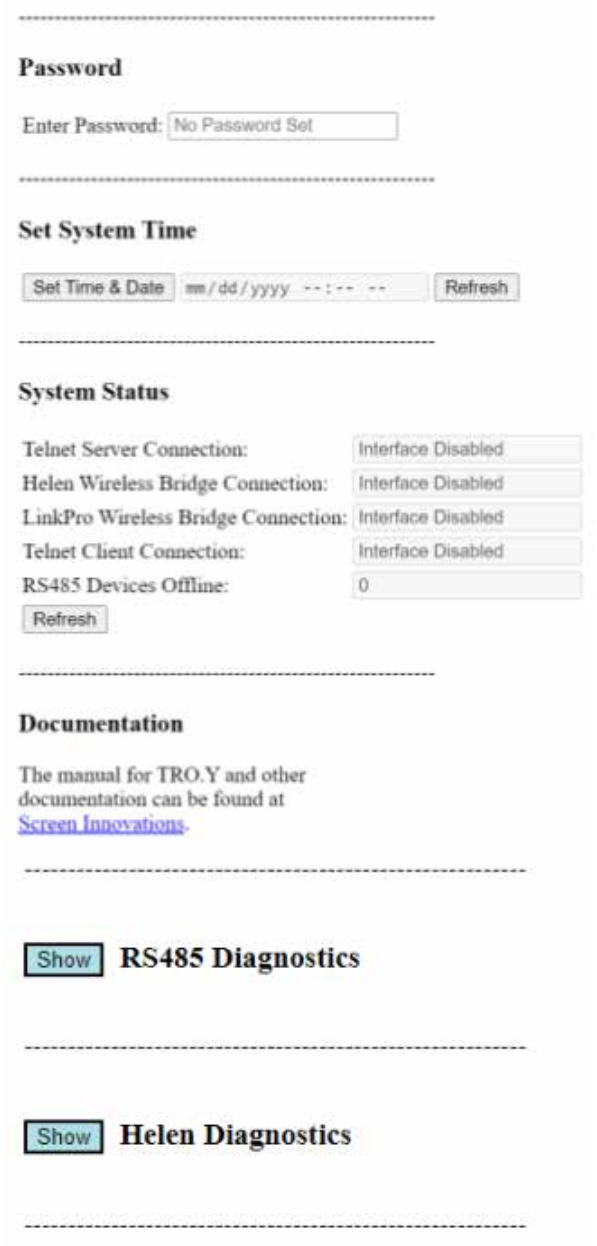
Dashboard

- Using a browser and navigate to the TRO.Y / 2 IP address found using one of the previous methods listed on pg. 5 - 6

- If this is the 1st time, you are accessing TRO.Y / 2, no password has been created yet. See the “User Interface Password” option on pg. 13 to setup a password (Must restart system to apply password). If a password has already been created, enter it here to navigate past this page

- If you have forgotten the password, press the reset button on TRO.Y / 2 to bypass the security for 5 minutes. The status LED will flash during this time.





(TRO.Y 2)

You can click on the “Set Time & Date” button to set the current PC Browser Time. More options for Time are available inside the “System Setting” section.

Clicking on the Hypertext link will take you to the location for the TRO.Y / 2 manual and this Programming manual.

Clicking on the Show “485 Diagnostics” or the Show “Helen Diagnostics” will provide a table of device(s) and the ability to test them

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Clicking on the Show Helen Diagnostic will provide a table of devices, the addresses and SILQ for each Zigbee node.

Hide **Helen Diagnostics**

Start Helen Diagnostics

Helen is Online

NOTE: This Menu will only appear if you have a Helen connected to the Helen port also available inside the system setting menu.

On/OffLine	Int ID	Label	Native ID	Zigbee ID	Device Type	Power	Parent	SILQ
X	001004	BAD CABLE	4CC206FFFE8031DE		motor	?	?	?
X	001002	GOOD CABLE	4CC206FFFE803485		motor	?	?	?
+	n/a	Helen Coordinator	385CFBFFFEE35425	0000	coord	DC	n/a	n/a
+	001003	KITCHEN	90FD9FFFFEA5F31C	DA6B	motor	AC	0000	95

Connection Status Types

- **Telnet Server Connection** – shows the current connection or configuration status

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- **Helen Wireless Bridge Connection** – shows the current connection or configuration and authentication status

- **LinkProZ/TaHoma Wireless Bridge Connection** – shows the current connection or configuration and authentication status

- **Telnet Client Connection** – shows the current connection or configuration status

- **485 Devices Off-line** – shows all the currently configured 485 devices that are currently off-line

- **Refresh** – Click this button to update the connection status

Connection status types

No Network Connection	Check Ethernet connection, IP and subnet address(es)
Good Connection	Current connection is good
Interface Disabled	Disabled in the Integration Settings Menu
Invalid	Connection is ok, but settings are not authenticated or are not at the currently set IP address(es) in the integration Settings menu
Checking	Performing 485 Discovery

System Settings

System Settings

User Interface Password: Submit

System Info

Firmware Version:	2.17
Compiled:	Oct 31 2022, 12:32:34
UI Version:	0.0.012x1z

Network Settings

System Name:	SI_TRO.Y_SUP_DAN
MAC Address:	AAAAAAAAAA04
DHCP Enable/Disable:	Disabled
Static IP Address:	10.10.100.40
Subnet Mask:	255.255.0.0
Gateway IP Address:	10.10.0.1

Submit

Note: IP settings will not be be stored until the submit button is clicked.
IP Settings will not take effect until after a Tro.Y system restart.

Show **System Time Settings**

System Restart

Restart

User Interface Password

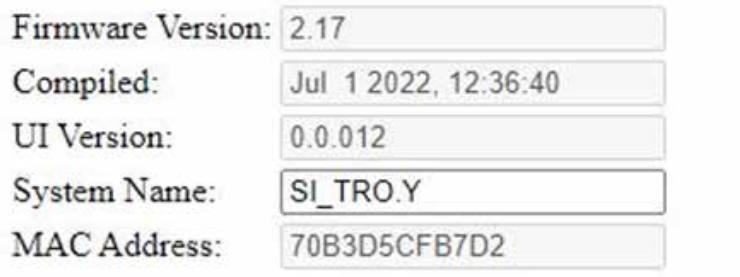
If it is desired to restrict access to the configuration set pages you must enter a password in the box below and click on Submit.

Note: SI support does not have a way to unlock or change this password. If the password is lost, you can use the Security Bypass button to allow 5 minutes to correct/modify the Password or factory reset the unit

System Info

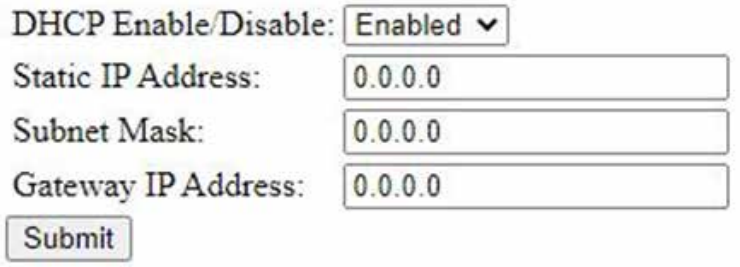
This displays the current Firmware version and compile date as well as the User Interface

- Create a Network TRO.Y / 2 System Name
- MAC Address and spoof address version



Network Settings

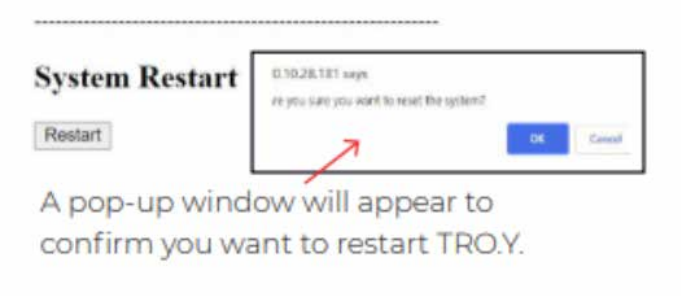
- Enable and disable DHCP support (Note, a system restart is needed for any logical IP adjustments)
- Static IP, Subnet and gateway settings



System Time Settings

System Time Settings allow system time, date and location to be entered for use with events and scenes

System Reset, will perform a warm re-boot of gateway(s)



TRO.Y / 2 Firmware Update

Allow you to update TRO.Y / 2 system firmware with download progress bar.

Note You must press the reset button on the front of TRO.Y / 2 before you can submit firmware.

Note you must restart TRO.Y / 2 after any firmware update

Initiating TRO.Y / 2 Firmware Update

Start by pressing the “Reset” button on the front of the TRO.Y unit, then select the “Choose File” button, navigate to the recently downloaded TRO.Y / 2 firmware file that has been saved on your PC. Then click the Submit button when ready to upload.

Firmware was uploaded successfully, if you see the message as shown to the right in the Results box

Firmware was **not** uploaded successfully, if you see the message as shown to the right in the Results box

You must press the “Security Bypass” button on TRO.Y / 2 and have the status LED flashing in order to upload the file successfully.

Note 1: On TRO.Y, if you have attempted to load a newer firmware greater than 2.17 you will need to refer to page 47 for details on how to complete the upload process.

Note 2: Firmware after 2.17, is compatible with TRO.Y, however TRO.Y does not have a real time clock, and does not provide the voltage for a Helen connected to a Control port. Features that require a real-time clock will not function correctly on TRO.Y. Contact SI Sales if your customer requires features from a real-time clock for information on how to upgrade to TRO.Y 2.

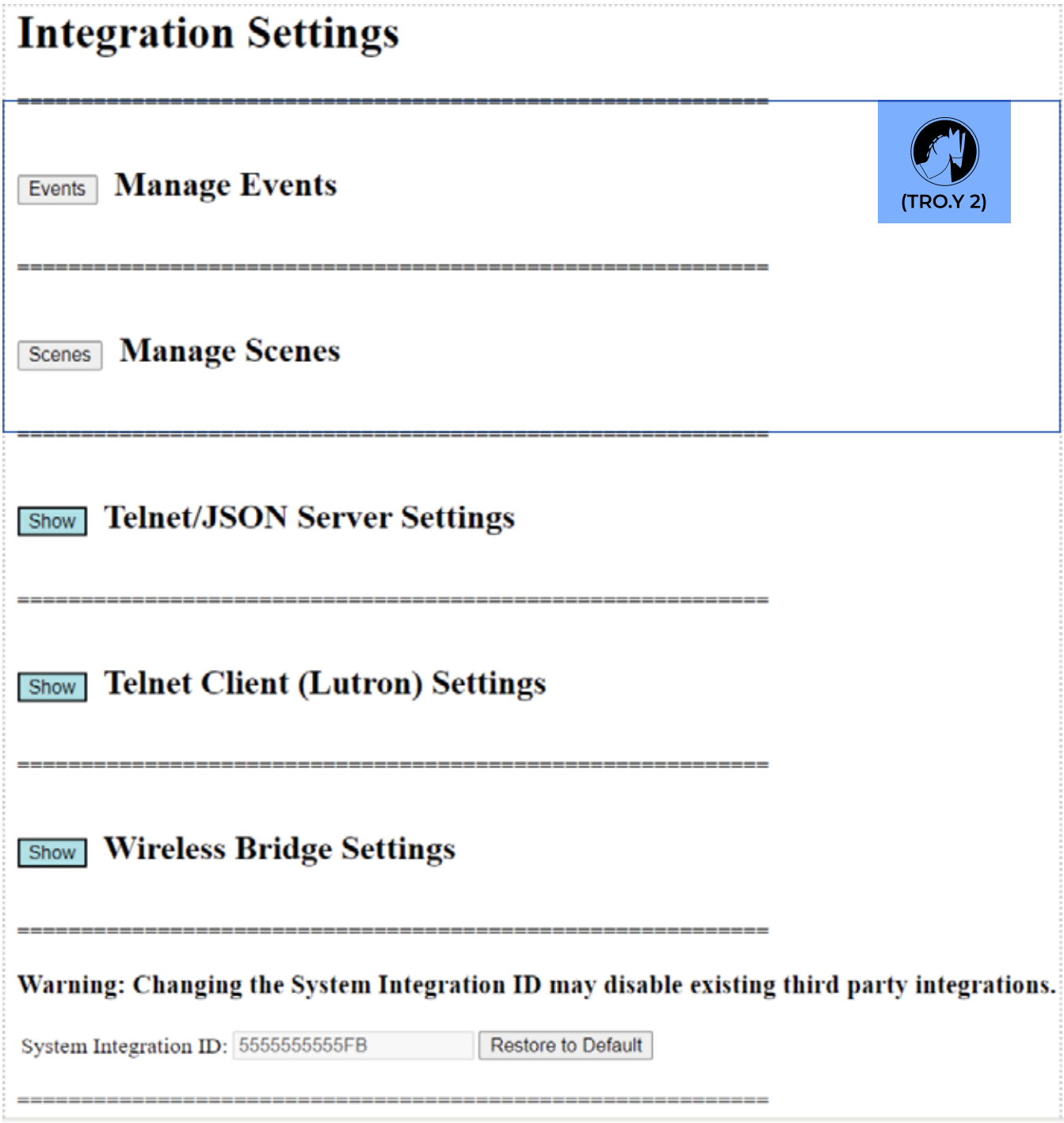
Q. Should I update my TRO.Y firmware to a version greater than 2.17?

A: As long as your system is working properly, the general answer is No.
Unless, the system is not working properly or you have been instructed to update the firmware, then you may proceed.

Q. Will updating firmware beyond version 2.17 damage my TRO.Y?

A: No.
Bug fixes and general file structure maintenance as well as access to new features such as Scenes which can be triggered by other devices can be beneficial.

Integration Settings



Event Management

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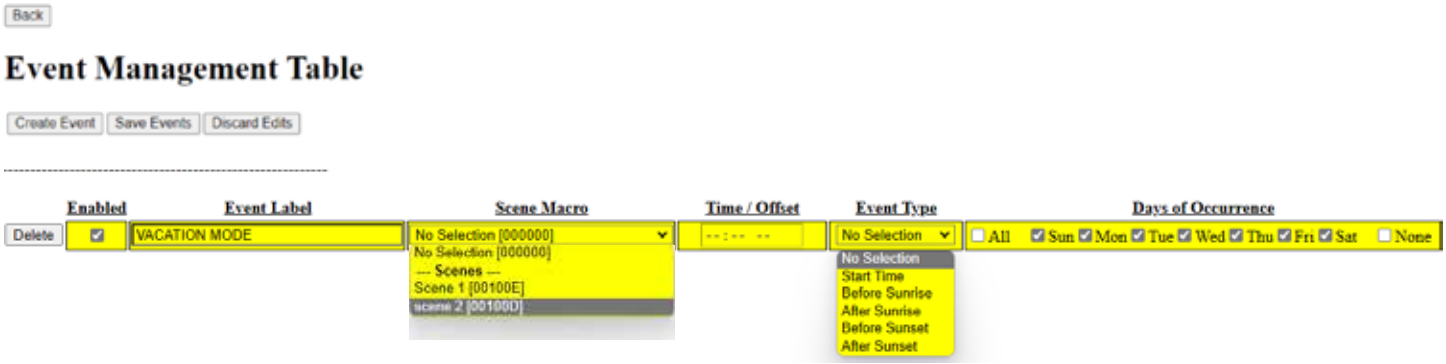
Events are a control command(s) that trigger (or start) a user scene at a designated time or occurrence.

Scenes must be crated before setting up an event

Create, Save and discard events

To create an event, click create event, type a label, select a scene and the time or occurrence of the trigger



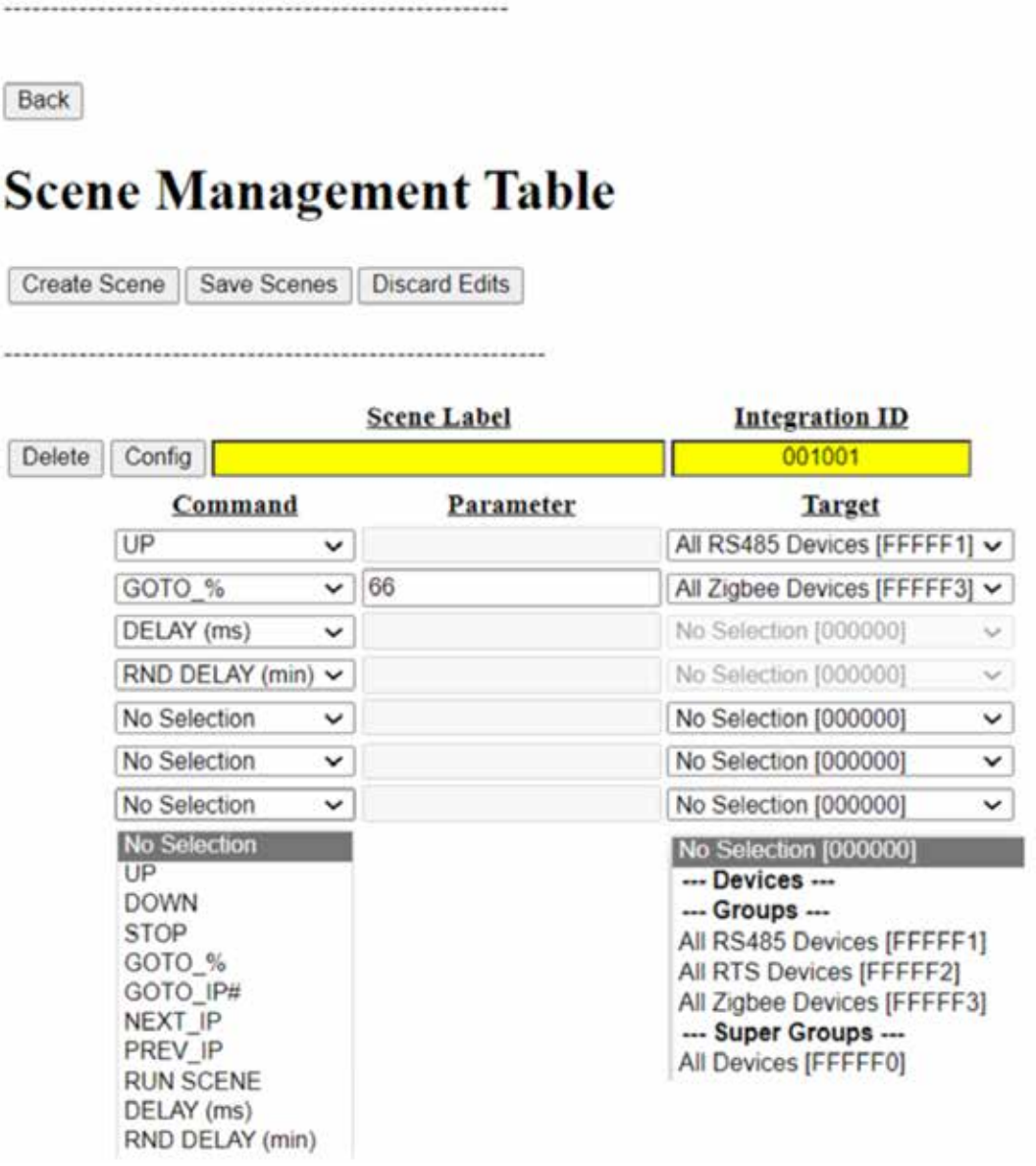
Scene Management

Scenes are command(s) that are triggered from events or 3rd party controls and send selected commands to designated target(s)

To create a scene, click create scene, type a scene label and Integration ID, or use auto generated ID from TRO.Y / 2

Click on the “Show Config” button to open the drop-down menu for up to eight commands, select from the drop-down list of commands, enter any relevant parameters and select any available targets including any delay(s) required.

If you need more than 8 commands, a scene can also call another scene, for a virtually unlimited amount of commands



Telnet Server Settings

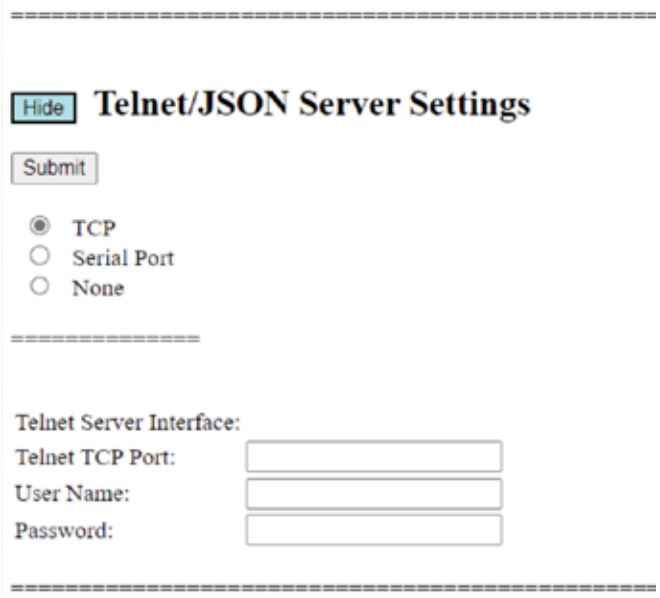
- The Telnet Server Settings are used for third party control systems

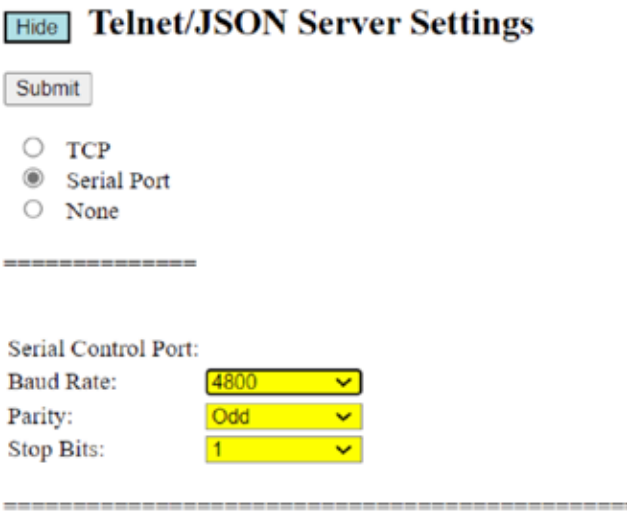
- Click “Enable” to start Telnet Server Session

- Select Telnet port (default is 23)

- Select User Name and Password

- Click “Submit” when configuration is complete





Note: Use the server settings to connect to J4M35. See page 27.

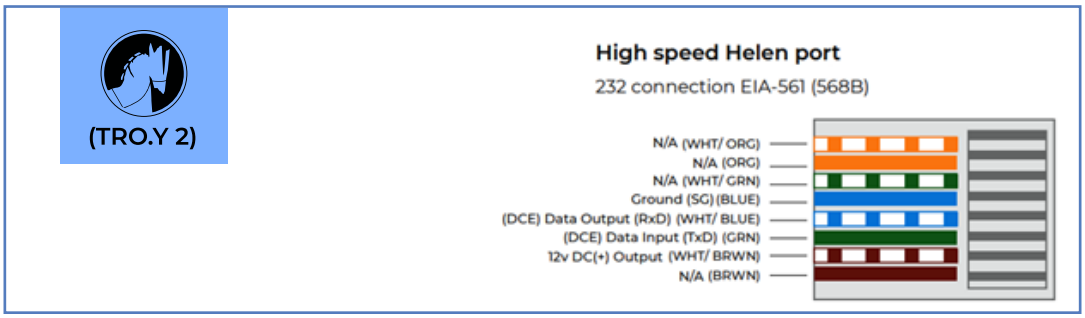
Default TRO.Y / 2 Serial Settings

Baud Rate - 4800-56K

Control bit – 8

Parity –None

Stop Bits - 1



Note: Serial port data output (WHT/BLUE) is the transmit (TX) from (TRO.Y / 2 DCE) on pin 5

Serial port data input (GRN) is the receive (RX) to (TRO.Y / 2 DCE) on pin 6

Telnet Client

- The Telnet Client Settings are typically used for third party keypads

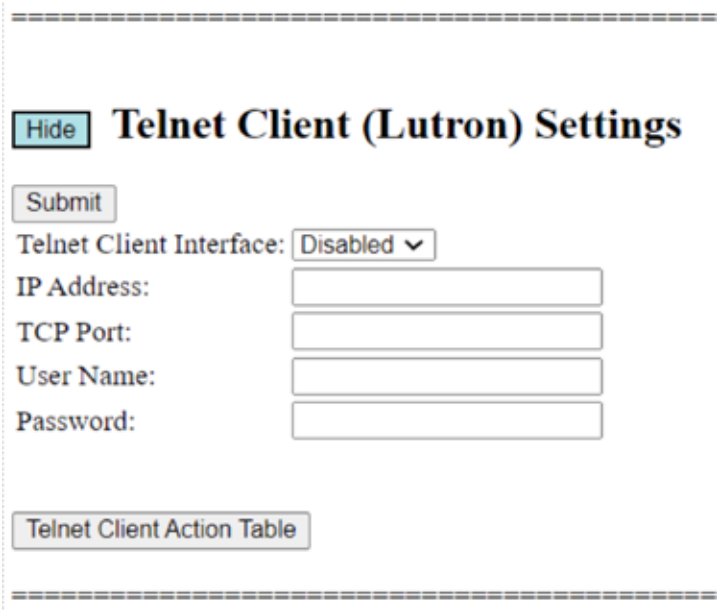
- Click “Enable” to start Telnet Client session

- Select IP address and TCP port

- Set User Name and Password

- Click “Submit” when your configuration is complete

- Once your Telnet sessions are configured, use the “Restart” button to Reboot TRO.Y / 2



Telnet Client Action Table

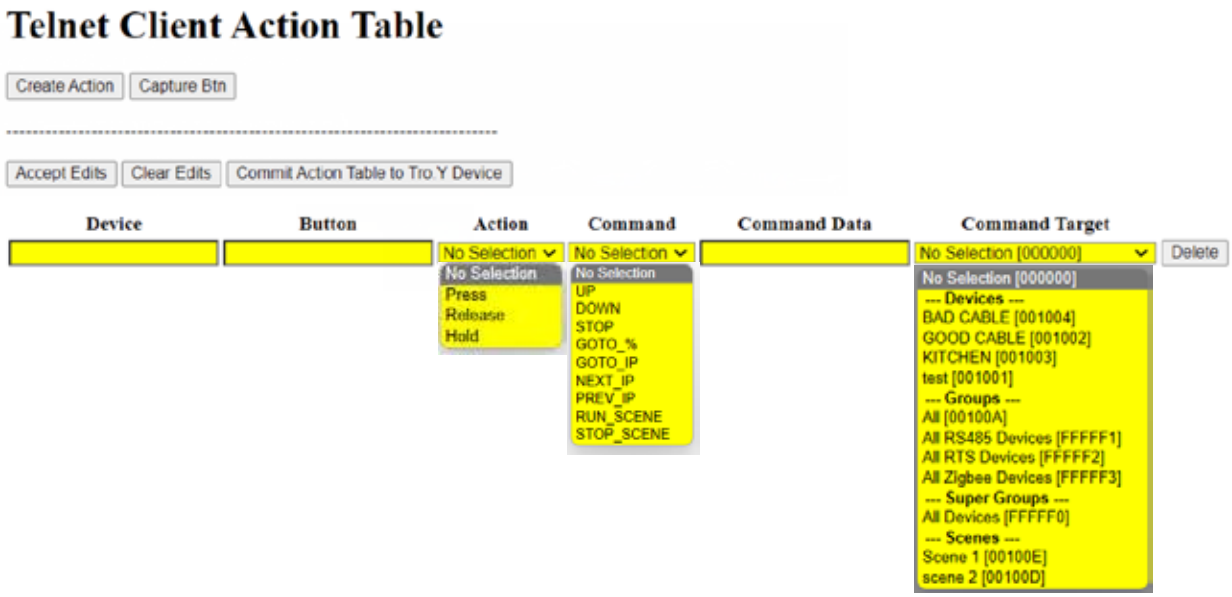
Use this function to capture 3rd party control commands and create Phantom button presses/triggers.

Once connected to 3rd party system using the network/serial connection from the Client settings page, then create or capture commands by clicking on the capture button, then push the corresponding 3rd party control button(s) required for your system.

Select which action (Press, Hold or Release), any command associated with this action, and command data and any available target to send command(s) to.

Telnet Client Table

- Clicking the “Telnet Client Action Table” button, will bring you to the Telnet Client Table.
- In this table, you can create, actions, capture buttons, edit, and delete actions.



- Click the “Create Action” button to create a new action map manually or click “Capture” to capture one button at a time from the Telnet server (15 seconds pairing per command). This must be enabled and configured in integration settings and the server must be connected and online.

- Enter Device ID (third party controller or repeater).

- Enter Button ID (button/ID)

- Select button action (press, hold, release).

- Select desired command and any command data required. See page 24 for command list.

- Select the target for this action.

- Targets can include motors, Zigbee Edge Routers, groups and super groups.

- Click “Commit Action Table to TRO.Y / 2 Device” button to send action map to TRO.Y / 2.

- Click “Back” to return to the Integration Settings” section.

HTTP Commands

Caution should be used when sending any HTTP Get commands to TRO.Y / 2, any incorrect ASCII character(s) could cause damage to your system site file and operation of TRO.Y / 2. Before sending any HTTP commands ensure you have made a site file backup in case you need to reload your site file.

We support three commands for any motor, UP, DOWN, and STOP.

The following string format can be used to send these commands to TRO.Y / 2

http://###.###.###.###/troy.cgi?cmd=70&str1=XXXXXX&str2=$$$$

Where; ###.###.###.### is a valid 32-bit IPv4 address that is sent from the same logical segment or can be forwarded to the same logical segment as TRO.Y / 2. Each octet can be expressed in a valid 8-bit number and can be truncated within the octet. Class C example; “192.168.0.100”, Class A example “10.10.0.100”

Where; XXXXXX is a valid 16-bit node ID that is sent on one of TRO.Y / 2 485-bus lines. This node ID is expressed into a 6-character alpha numeric value. Some addresses are reserved for broadcast or other bus features. Example1; “1001003”, Example2; “1A0113”

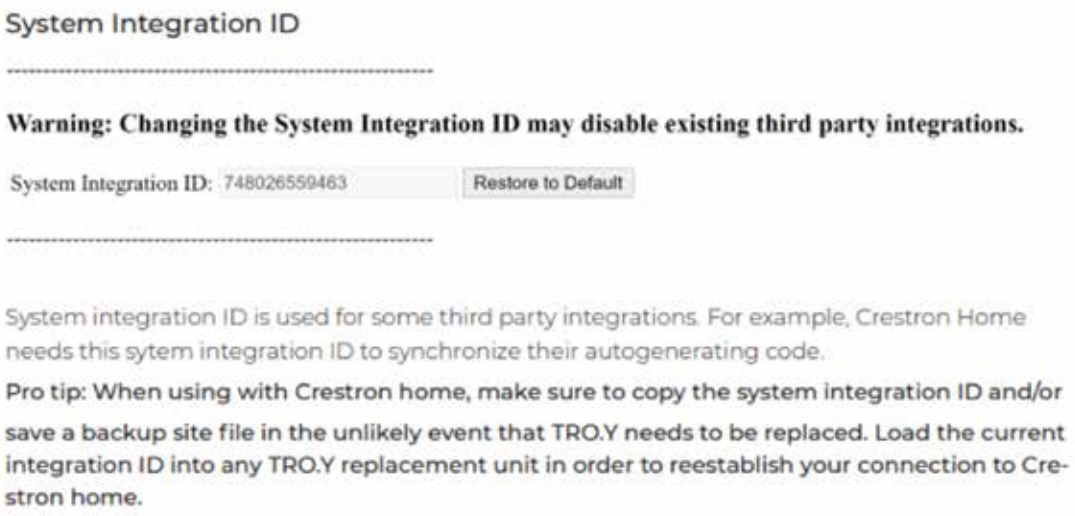
Where; $$$$ is a valid ASCII character that is used by TRO.Y / 2 which determines the correct JSON command to be sent to the target destination on the 485-bus line(s). Valid commands are “up”, “down”, “stop”

Example UP command; “http://192.168.1.149/troy.cgi?cmd=70&str1=001003&str2=up”

Example STOP command; “http://192.168.1.149/troy.cgi?cmd=70&str1=001003&str2=stop”

Example DOWN command; “http://192.168.1.149/troy.cgi?cmd=70&str1=001003&str2=down”

System Integration ID



Wireless Bridge Settings - Link ProZ / TaHoma / TaHoma switch

Hide **Wireless Bridge Settings**

Submit

- ○ Helen Bridge
- ◉ Link Pro / Tahoma Bridge
- ○ None

Link Pro/Tahoma Bridge Configuration

TCP/IP Configuration

Bridge IP Address: 0.0.0.0

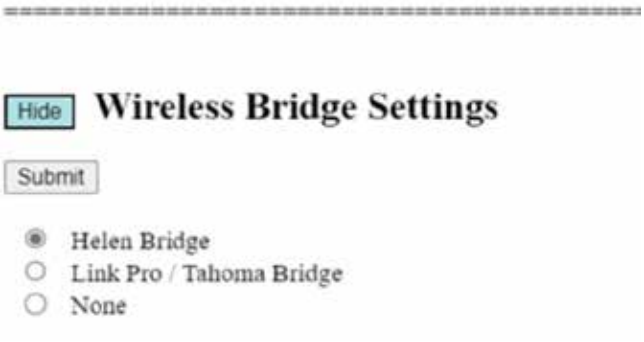
Bridge TCP Port: 44100

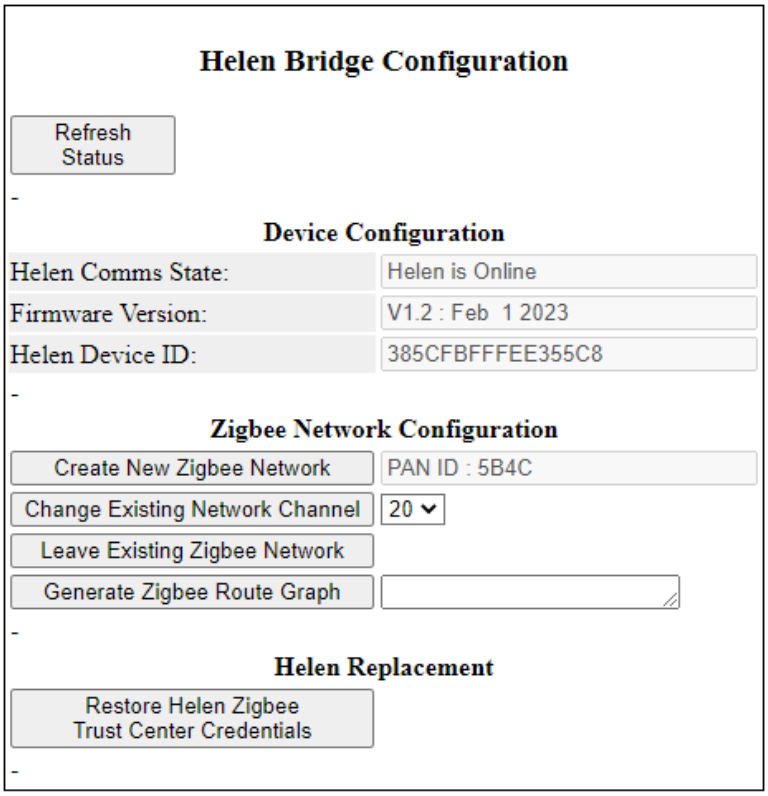
Note: This screen will only appear if you have a HELEN connected to the Helen port

Enter IP and port for LinkProZ, TaHoma, TaHoma switch default port is 44100

Screenshot from TaHoma app

Wireless Bridge Settings - Helen





- Connect Helen to the Helen Port, click on Show Wireless Bridge Settings, and click on Helen Bridge, then click on Submit. Restart TRO.Y 2 and make sure the Left LED on the Helen port is solid green.

- The refresh button only updates the Helen configuration data.

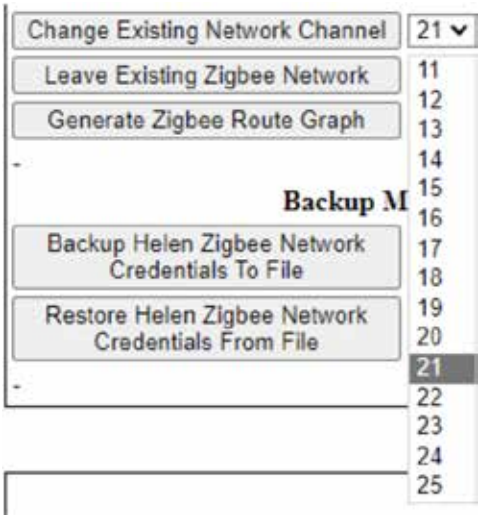
- When Helen is ready to configure you will see the Helen is Online in the Helen Comm State and or the Dashboard

- This will also show the current Helen Firmware version and Device ID

- **Zigbee Network Configuration**

- Click on the Create New Zigbee Network to create a new wireless network. The Zigbee Network ID or PAN ID will be displayed to the right of the button.

- To change the ZigBee Network Channel, click on the drop-down list of valid Zigbee channels and select the channel you would like to move the network to then click the “Change Existing Network Channel” button to apply settings (change usually takes 10-15s).



To leave the current Zigbee Network click on the leave existing Zigbee network button.

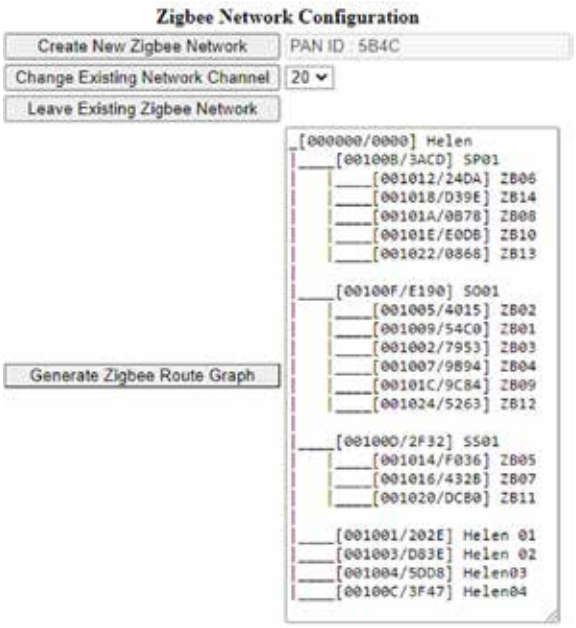
NOTE: You should not leave the network if you have any devices paired to the network and or you do not want to start over with a new Network.

Wireless Bridge Settings - Helen (continued)

(TRO.Y 2)

Generate Zigbee Routing Graph. This will generate all the Zigbee nodes that have been paired with the Helen, and the corresponding Router (or parent) relationship.

NOTE: Please follow all the Zigbee networking rules found in the SI Zigbee Design guide.

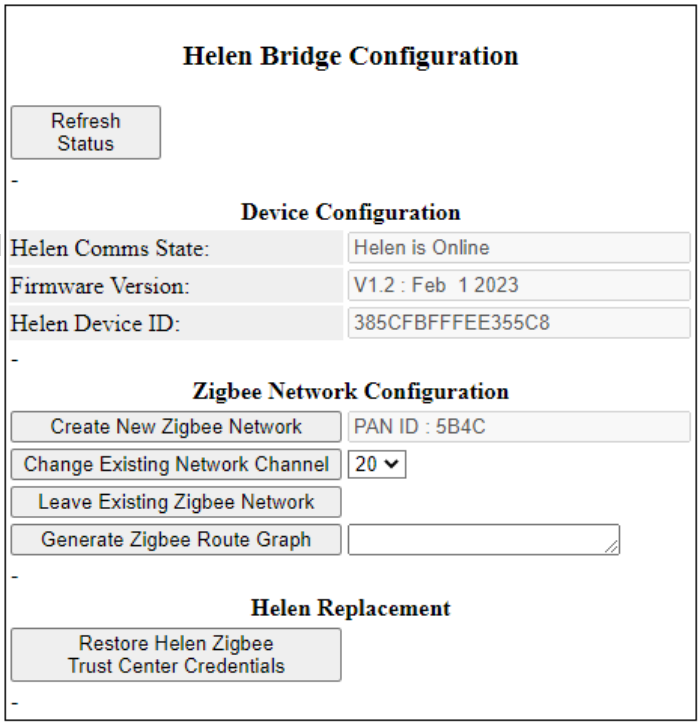


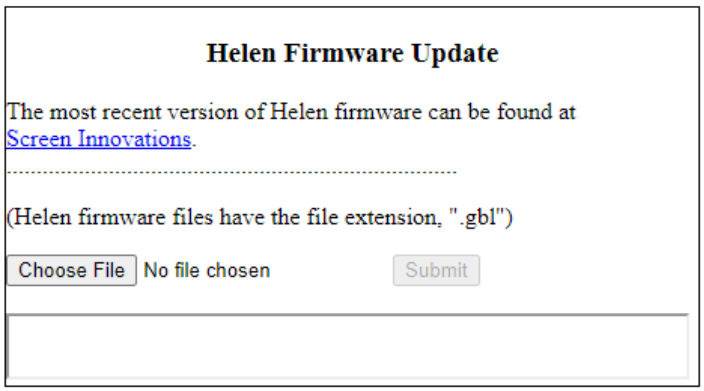
The Helen of TRO.Y 2 (or Zigbee Coordinator) will always be shown at the top, and each Zigbee node will be listed as a child under the coordinator. In most cases, another Helen (Mesh Router) or other Mesh Router will be listed under the coordinator, and then each Zigbee end-point node will be listed as a child under each respective Mesh router.

Use the three lines at the bottom right corner to expand the HTML window for larger system.

A CSV file will also automatically be generated and can be downloaded from TRO.Y 2 to open within a worksheet program such as Excel.

Use the Restore Helen file in order to quickly bring back up a Zigbee network with a new Helen of TRO.Y 2 or Zigbee coordinator.

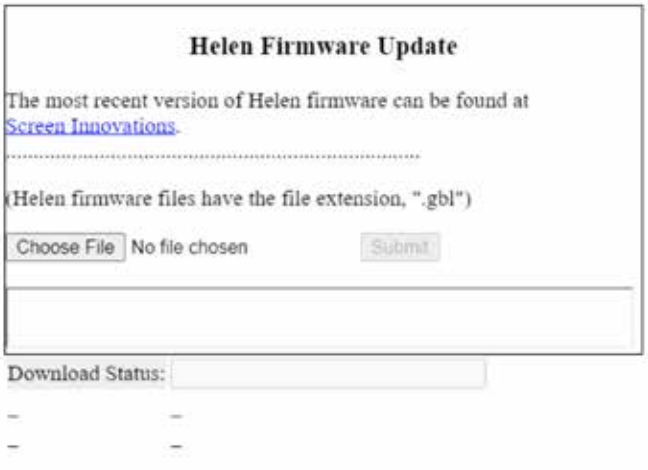




Helen Firmware Update

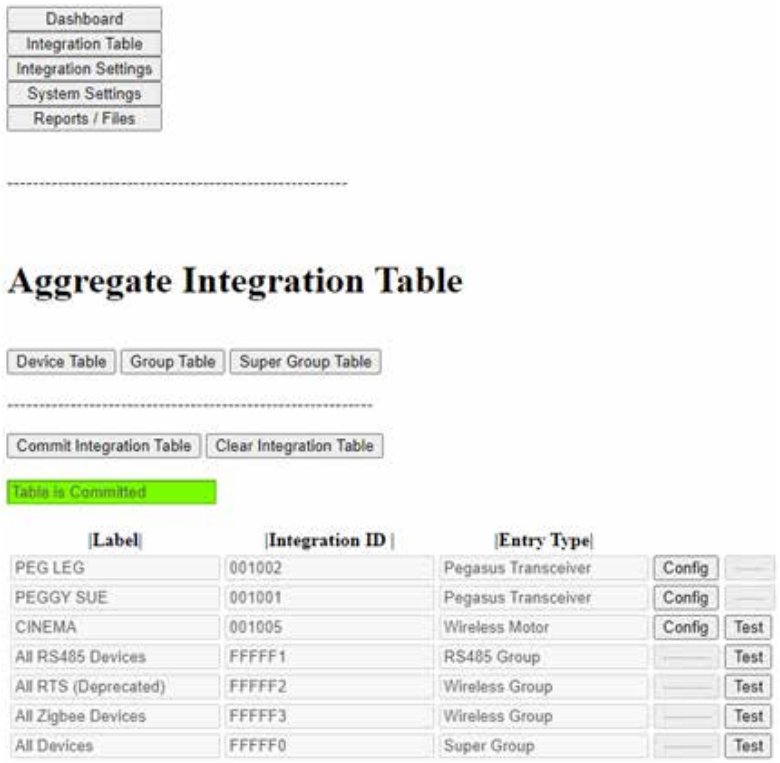
To update Helen firmware please push the reset button on TRO.Y / 2 and then click on the choose file and browse to a valid /gbl file which can be found on the Screen Innovations Helen support website.

(TRO.Y 2)

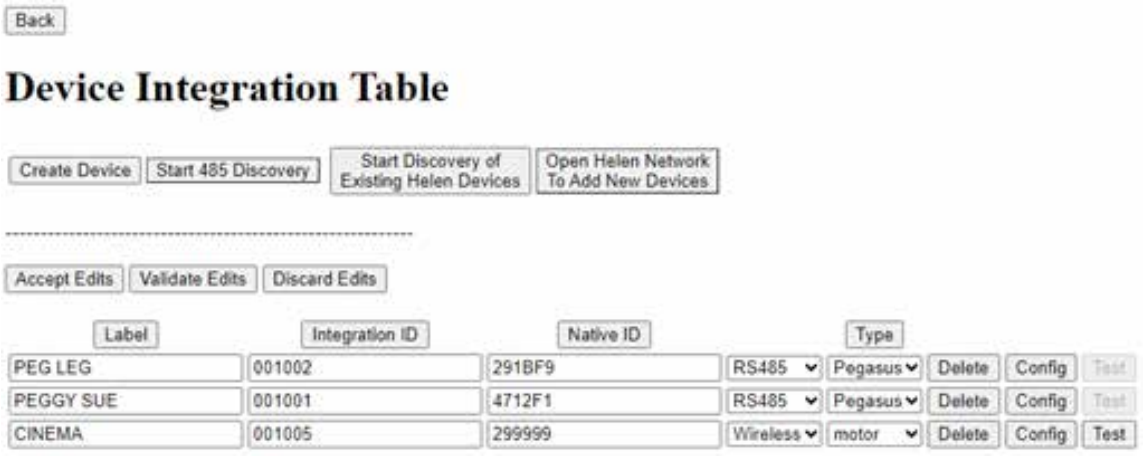


Adding Zigbee Motors to TRO.Y with Helen

- Navigate to the Integration table
- Click on the Device Table button
- Click on the Open Helen Network button to add new Zigbee devices
- The button will open the Zigbee network and turn Yellow
- Go to your Zigbee device and set it into the join Zigbee mode
- For Somfy Zigbee motors hold the program button on the head until the motorjogs. The LED will flash amber for a few seconds and will auto populate in the Device integration table. You can use the test button to verify the motor and then add a label and click on config to adjust any settings.



- NOTE: If you are moving a project from one Zigbee Coordinator to Helen, you MUST FIRST remove the motor from the other APP before moving it to Helen.



When done adding all motors, click on the Close Helen network , click on Accept Edits, go back to the Integration Table and Commit the Integration Table to finish

Integrating with Bond Bridge Pro (BBP)

To integrate with the wireless bridge BBP, open the Telnet server settings in TRO.Y 2 Integration settings menu, Click TCP, and enter Port 23 and the user name and password you want to use.

==========

Hide **Telnet/JSON Server Settings**

Submit

- (•) TCP
- ( ) Serial Port
- ( ) None

==========

Telnet Server Interface:

Telnet TCP Port:	23
User Name:	Mike
Password:	Mike

==========

In your web browser enter the IP address of your BBP forward slash troy and click on enable. Enter your TRO.Y2 IP address, port number 23 and the user name and password you used in the Telnet server settings above, click save, and power cycle your BBP.

Troy | TRO.Y Integration | Not secure | 192.168.0.251/troy

TRO.Y Integration

- Please enter the IP address, port, username, and password for your TRO.Y system.
- You may find the IP address by searching for "troy" in your router's DHCP table.
- Port number is usually 23, but may be changed in the Troy's settings page.
- You may change settings without re-entering the password if it has not changed.
- Be sure to select "Enabled" before pressing "Save".

Status: reset

(•) Enabled ( ) Disabled

IP	192.168.0.250
Port	23
Username	Mike
Password	•••••••••

Save

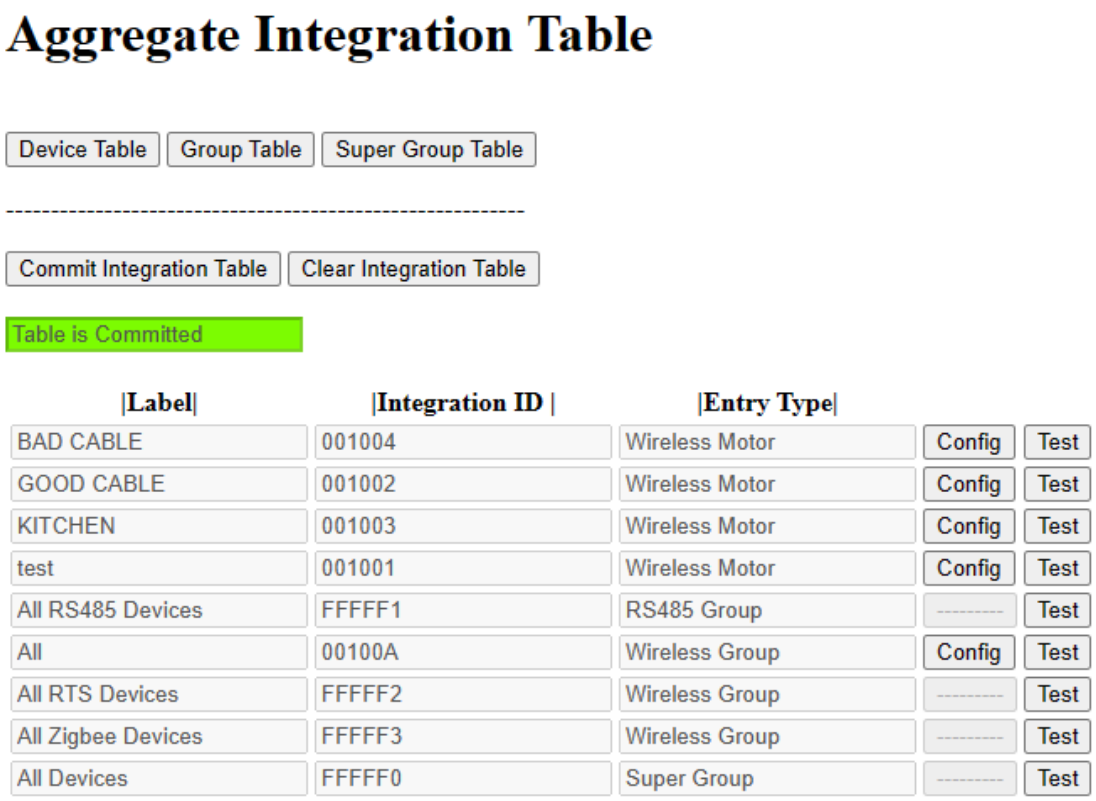
To verify that TRO.Y2 and BBP are connected, go to the TRO.Y Dashboard menu and verify that the Telnet Server connection shows a Good Connection.

System Status

Telnet Server Connection:	Good Connection
Helen Wireless Bridge Connection:	Good Connection
LinkPro Wireless Bridge Connection:	Interface Disabled
Telnet Client Connection:	Interface Disabled
RS485 Devices Offline:	0

Refresh

Integration Table



Integration Table

- The Aggregate Integrate table contains all of the devices in your system including motors, keypads, groups, and RTS receivers.

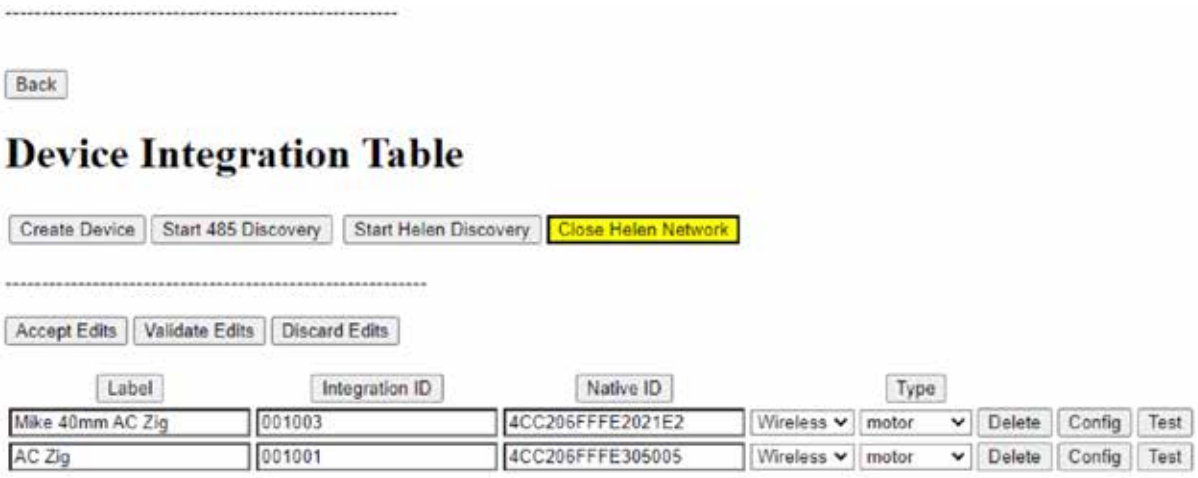
- Some devices in this table can be configured while others may only be shown for information puposes.

- The data in this table is only stored in your web browser, in order to save this data to TRO.Y / 2 you must click “Commit Integration Table” button,

- The “Test” button can be used Test, verify and identify motors, groups and accessories.

- Click on the “Config” button to enter the Configuration menu for that device.

- When you commit this table, the data is sent and stored in TRO.Y / 2; the table status indicator will turn green, indicating the data in your browser and the data stored in TRO.Y / 2 are in sync.

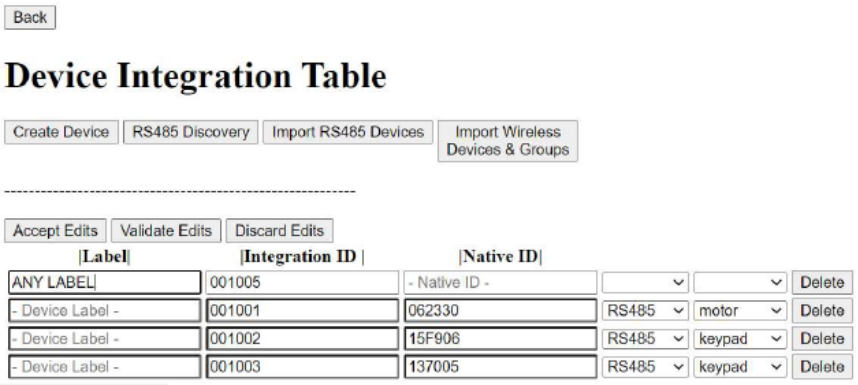


In the Device Integration Table, you can create and/or discover 485 and ZigBee Motors and Accessories when connected to a 485 Bus or ZigBee Coordinator. When you are done adding devices you can accept them (Send to Aggregate Table), validate them (run Design check), or erase them.

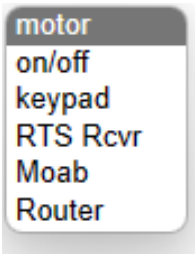
Use the Start Helen Discovery to list any currently connected Zigbee device. Use the Open Helen Network to start the Zigbee pairing process. (Now enable the join Zigbee network process on your device.

Any motors found can be configured now and limits adjusted or set by clicking on the config button to the right of each discovered motor. You can also test the motor by clicking on the test button which will cause the motor to “wink”.

- To discover 485 motors, keypads, and RTS receivers, click on the 485 Discovery button.
- To discover wireless devices, click on the “Import Wireless Devices and Groups” button (TaHoma only).
- You can create any motor, keypad, RTS device by clicking on the “Create Device” button.



- When you are done adding devices, you can accept them (Send to Aggregate Table), validate them (Run Design Check), or erase them.



- To create a device, click on “ Create Device” button
- Optionally, a label can be made to help identify this device in a large system.
- Integration IDs are auto generated, and can be edited.
- If known, the Native IDs may be entered in the Native ID field.
- Select 485 or Wireless Communications for created device.
- Select the type of device to create (Motor, Keypad, RTS receiver, Zigbee Functional Edge Router)
- When you are done adding devices you can accept them (Send to Aggregate Table), validate them(run Design check), or erase them.

485 Device Discovery

- Clicking on the 485 Discovery button will bring you to the Device Discovery menu.

- To begin Device Discovery click the “Start 485 Discovery” button, any 485 devices connected to one or more of the 485 BUS OUT ports on TRO.Y / 2 will populate. The Discovery will continue until you pause or leave the screen.

- Devices that have already been populated to the Device integration table will still appear in this list but the import and config buttons will be greyed out.

- Newly discovered 485 Devices that will have an Import button that you can press to bring it to the device table.

- When finished click on the “Pause” button to stop the current discovery (clicking the Back button also pauses the discovery).

- Click on the “Discard Edit” button to discard changes to the table of devices.

- Clicking on the “Accept Edits” button will save all discovered devices to the Browser.

- Clicking on the “Import Discovered Devices” button will send all discovered devices to the Device Integration Table.

- When finished, click the “Back” button to return to Device Integration Table. Here you can Commit All changes to the Device Table to save in TRO.Y / 2.

- To import Zigbee or RTS motors, click on “Import Wireless Devices and Groups” button (depending on size of Zigbee network, this import can take up to 2 min.s to fully load).

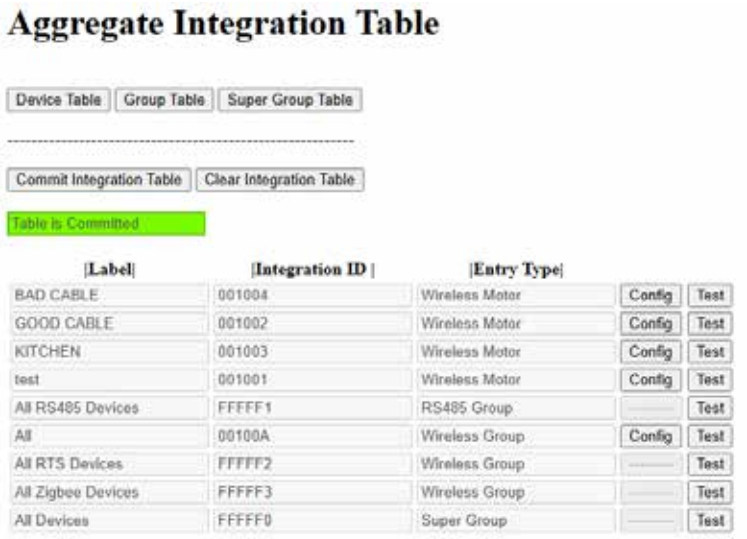
- When you are done creating or importing devices you can accept them (Send to Aggregate Table) or validate them (run Design check), or erase them.

Device Configuration

- Clicking on a “Config” button will bring up the Device Configuration page.

- Clicking on the “Test” button will send a momentary up / down movement to the motor or group

- Zigbee and RTS motors need to be configured in the TaHoma app before they are listed in this Aggregation Integration Table.



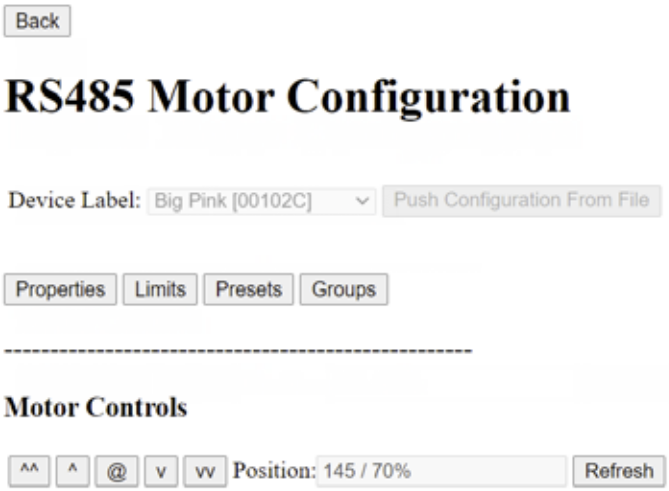
485 Motor Configuration

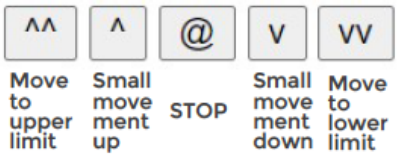
- Clicking on the motor “Config” button will bring you to the Device Configuration menu.

- 485 motor confirguration has 4 menus, properties, limits, presets, groups.

- Motor movement controls allow you to adjust the motor (@=stop).

- Click “Refresh” button to see current position.





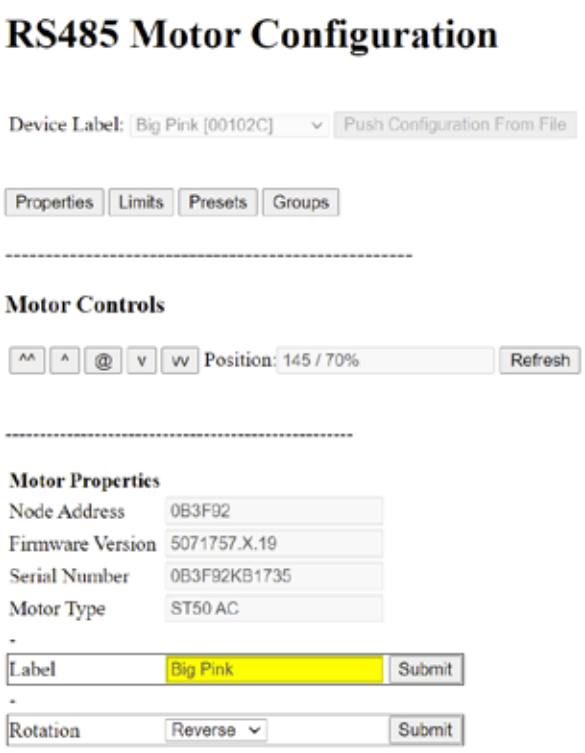
- Enter the properties menu by clicking the “Properties” button.

- In the properties the Node Id, firmware (if available), serial number and motor type are displayed.

- The label, motor rotation, and speeds can be adjusted (if available).

- Clicking the “Submit” button sends any changes to the motor.

- Click on another menu button or if you are done, click the “Back” button to take you back to the Aggregate Integration Table.



- Enter the limits menu by clicking the “Limits” button.

- Upper and lower limits can be adjusted and the - current positions are reported in the motor limit fields.

- Factory reset of the motor can be performed. This will erase everything in the motor.

- Click on the “Adjust” buttons to begin adjusting upper or lower limits.

- The Setting controls located at the bottom of this menu, will allow you to adjust the motor to the desired position.

- If ready to change the upper or lower limit to the current position, click the corresponding “Set” button to send the new limit to the motor, or click “Quit” button to exit limit setting.

- Click “Back” or another menu button.

- Enter the presets menu by clicking the “Presets” button

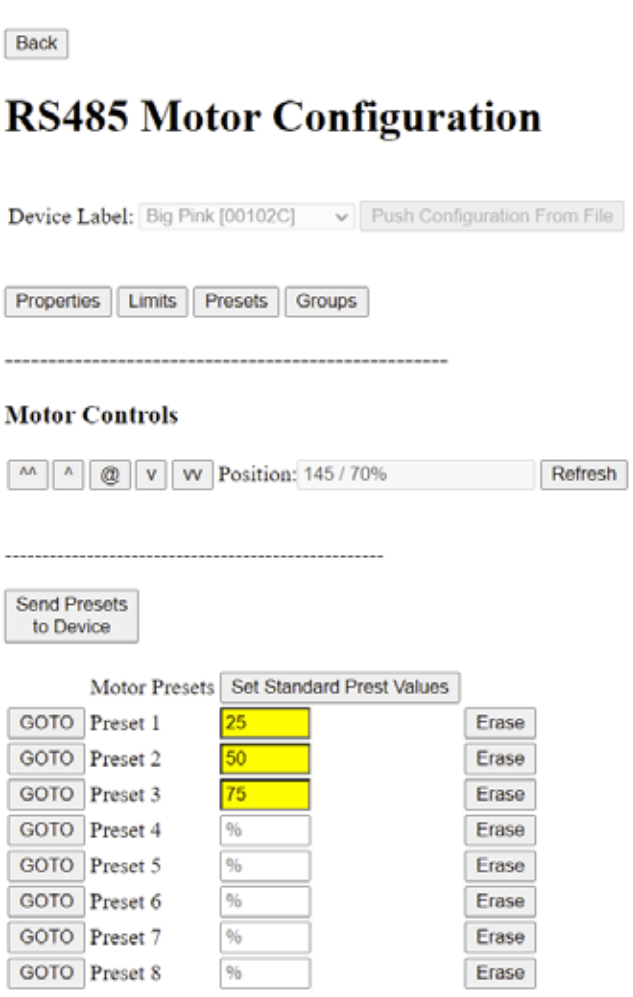
- Clicking the “Go To” button, will send the motor to any saved position

- Create up to 8 presets by entering % values or using the up or down arrows

- Clicking the set standard pre-set values will add three equally spaced presets in the table.

- Clicking “Send Presets to Device” button will send all presets to the motor.

- Click back or another menu button.



- Enter the groups menu by clicking the “Groups” button
- To add groups to this motor simply click on the dropdown list
- Each motor can store up to 8 groups
- Click back or another menu button
- Groups must be created in the Groups menu first before you can select them want for the motors
- Click send groups to Device when finished
- Click back or another menu button

Group Motor Configuration

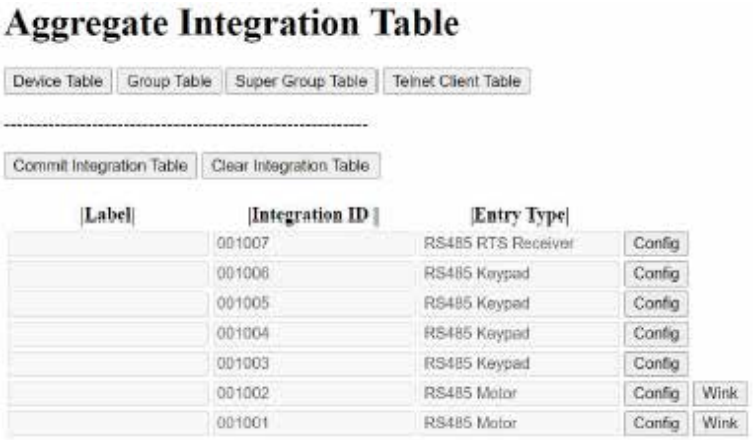
Group Label ZBGroup01
Group Integration ID 00102E
Group Native ID 1030
Group Domain Wireless
Test Group ^^ @ vv

Update Table From Devices | Cancel Update | Update Devices From Table

Device In Group	Remove Device	Add Device	Label	Integration ID	Native ID	Device Status
-	☐	☑	ZB01	001009	4CC206FFFE303CF0	Online
-	☐	☑	ZB02	001005	4CC206FFFE303CAD	Online
-	☐	☑	ZB03	001002	4CC206FFFE303CA6	Online
-	☐	☑	ZB04	001007	4CC206FFFE303CB2	Online
-	☐	☐	ZB05	001014	4CC206FFFE303CEF	Online
-	☐	☐	ZB06	001012	4CC206FFFE303EB6	Online
-	☐	☐	ZB07	001016	4CC206FFFE303C26	Online
-	☐	☐	ZB08	00101A	4CC206FFFE303C40	Online
-	☐	☐	ZB09	00101C	4CC206FFFE3039DF	Online
-	☐	☐	ZB10	00101E	4CC206FFFE30469A	Online
-	☐	☐	ZB11	001020	4CC206FFFE303CB3	Online
-	☐	☐	ZB12	001024	4CC206FFFE302D1E	Online
-	☐	☐	ZB13	001022	4CC206FFFE303CB1	Online
-	☐	☐	ZB14	001018	4CC206FFFE303CF7	Online

485 Keypad Configuration

- Clicking on the keypad “Config” button will bring you to the Device Configuration menu.



- When the keypad config page loads, any current configuration of the buttons are automatically loaded into each slot

- To configure the 485 keypad, select the buttons you would like to program.

- Up to 8 buttons can be configured.

- Special attention should be made on the number & position of buttons on the keypad you are programming to determine which button slot you need to configure.

- Even if your keypad only has a single button, you can still program all 8 positions for use with the dry contact closures on the back of your keypad.

- 485 keypads are available in 2 types:

Standard programmable

Preset selection

Configuring For A Standard Programmable Keypad

- Select which button you would like to configure.

- Each button can be programmed with a different command for a “Press”, “Hold”, “Release”, or “Sequence” (and to different Targets as needed).

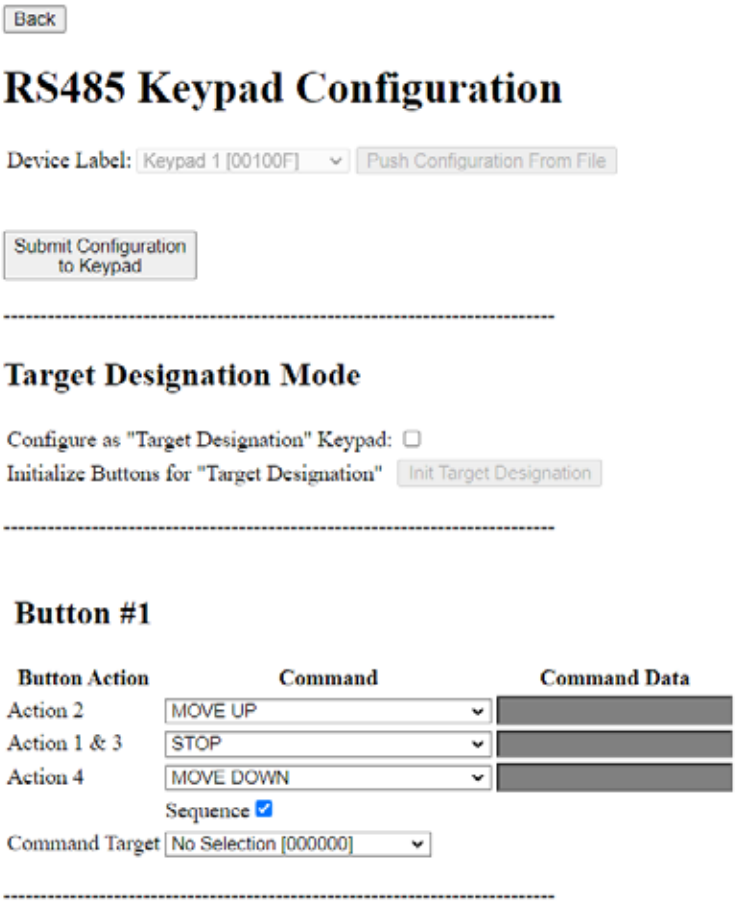
- “Press” sends the command to the target on the leading edge of the press.

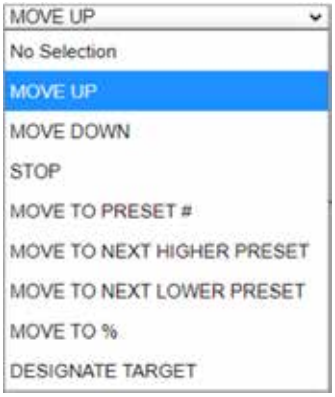
- “Hold” sends the command to the target once the button has been held for at least 0.2 seconds

- “Release” sends the command to the target on the trailing edge of the re lease

- Continue this process for all the buttons you would like to configure

- After completing your configuration for the keypad, click the “Submit Configuration to Keypad” button to send all changes to the keypad (only buttons with changes are sent)





Keypad - Command List

- **MOVE UP** – Sends target to upper limit
- **MOVE DOWN** – Sends target to the lower limit
- **STOP** – Sends target the stop movement command
- **MOVE TO PRESET #** – Sends target to IP # specified in the command data field
- **MOVE TO NEXT HIGHER PRESET** – Sends target to next IP#
- **MOVE TO NEXT LOWER PRESET** – Sends target to previous IP#
- **MOVE TO %** - Sends target to a specified % in the command data field
- **DESIGNATE TARGET** - Specifies which motor or group the command is sent to

Configuring For A Preset Selection Keypad

- Click on the configure as Target destination keypad check box.

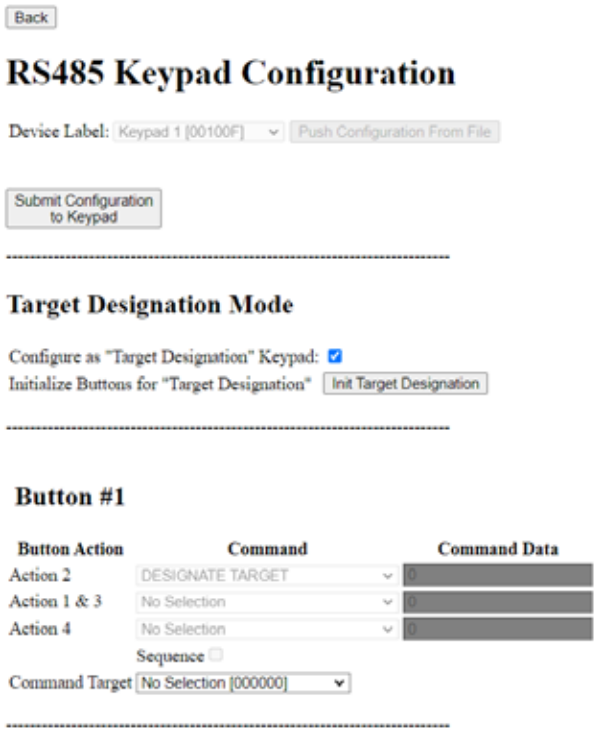
- In this mode you must select your target destination(Preset) for buttons 1-5.

- Valid target destinations are motors, groups or super groups.

- Next to each button (1-5) is a Red LED which indicates the currently selected target (Preset).

- The default for buttons 6-8 are the STOP, DOWN and UP for the selected target (Preset).

- These defaults can be changed to any valid command.



- When you have completed your configuration for the keypad, click the “Submit configuration to keypad” button to send all changes to the keypad (only buttons with changes are sent).

Keypad Sequence

- A button can also be confirgured as a sequence

- Sent commands change each time the button is pressed

- The sequence setting will cycle through up to three commands:

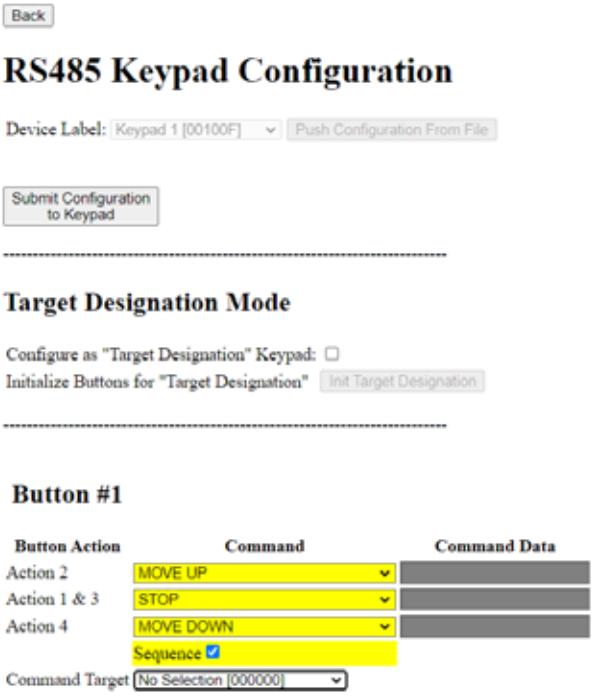
Press (action 2)

Hold (action 1 &3)

Release (action 4)

for each time you press the button (leading edge) it will sequence through actions 1-4

- Valid targets can be:
  - any Motors
  - Zigbee Edge Routers
  - any Groups
  - any Super Groups

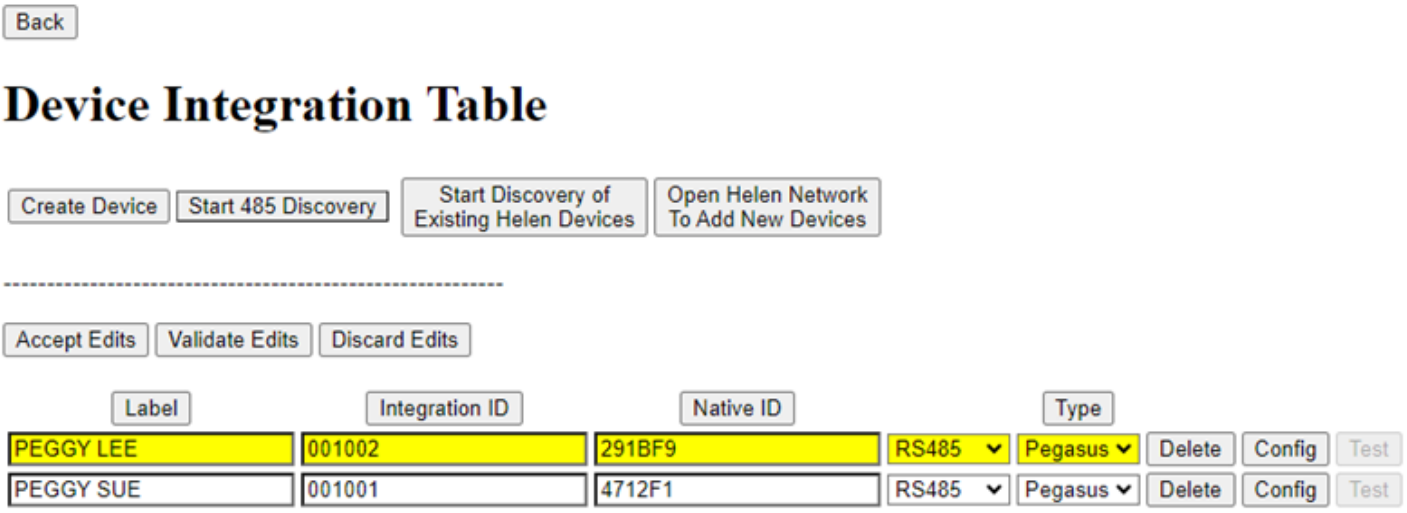


RTS Receiver Configuration

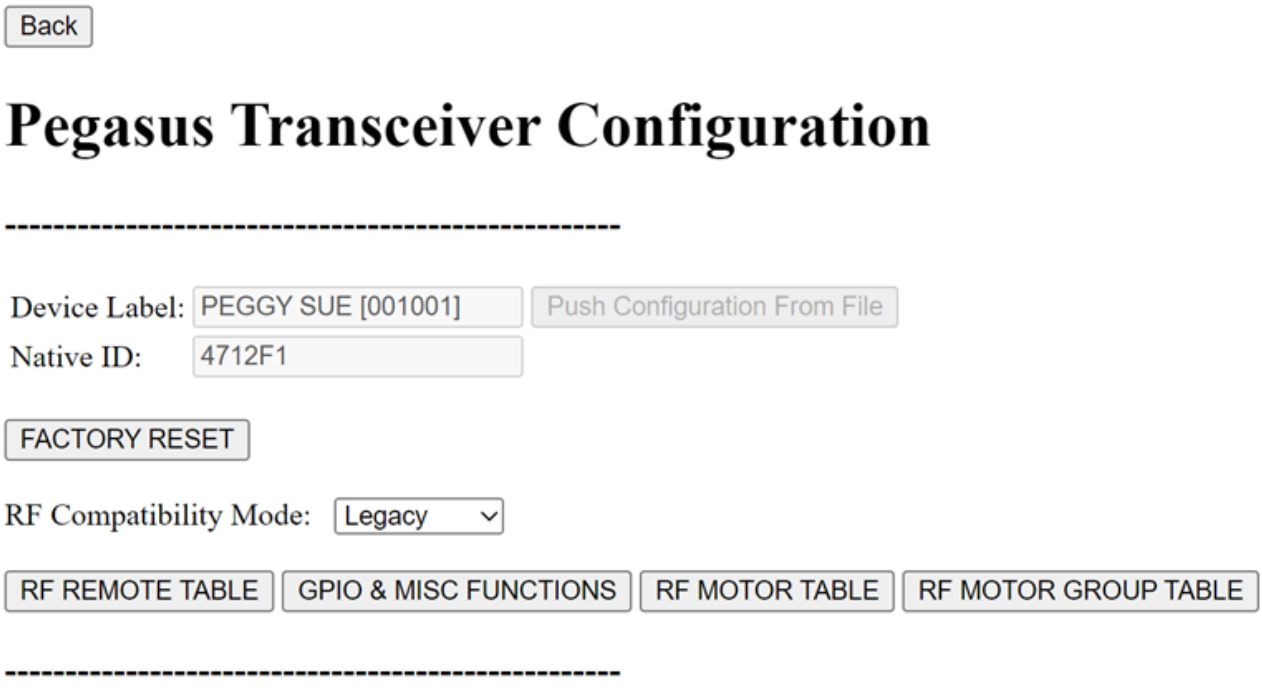
- After you have discovered a connected RTS Receiver.
- Clicking on the RTS Receiver “Config” button will bring you to the Device Configuration menu.
- To configure the RTS receiver, select the channels you would like to program.
- Groups must be created in the Aggregate Integration table before they are available here.
- Devices, groups, super groups are all available as targets in the drop-down list.
- SI supports 4 channels per receiver.
- When you are done, click the “Send to Device” button to update configuration in the receiver.
- Click back when finished.

Pegasus Transceiver Configuration

- Once you have discovered a connected Pegasus click on the config button

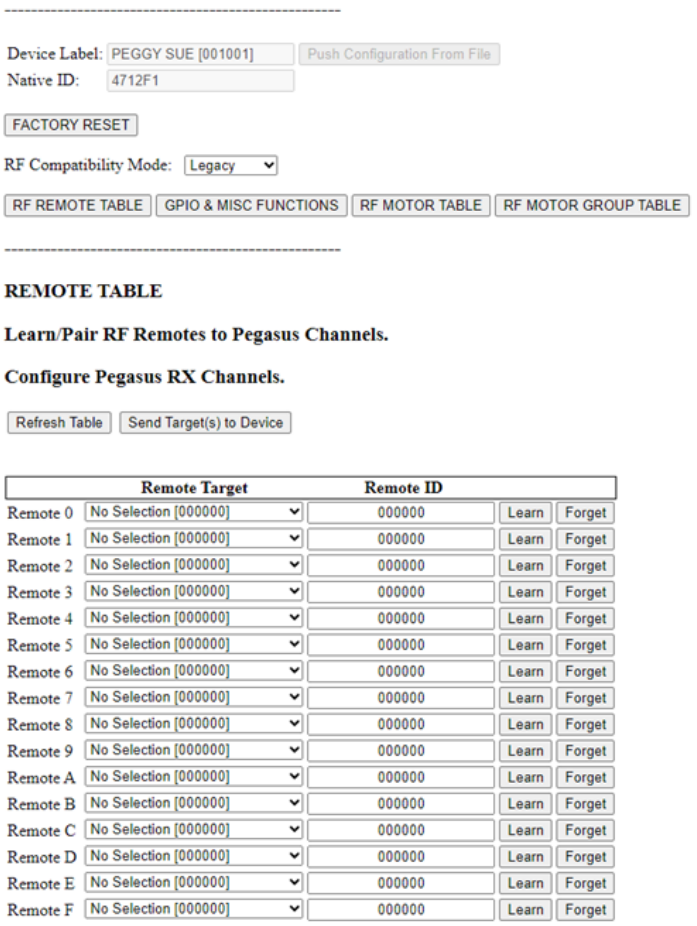


You will enter the Pegasus Transceiver Configuration menu



Pegasus Transceiver Configuration – RF Remote Table

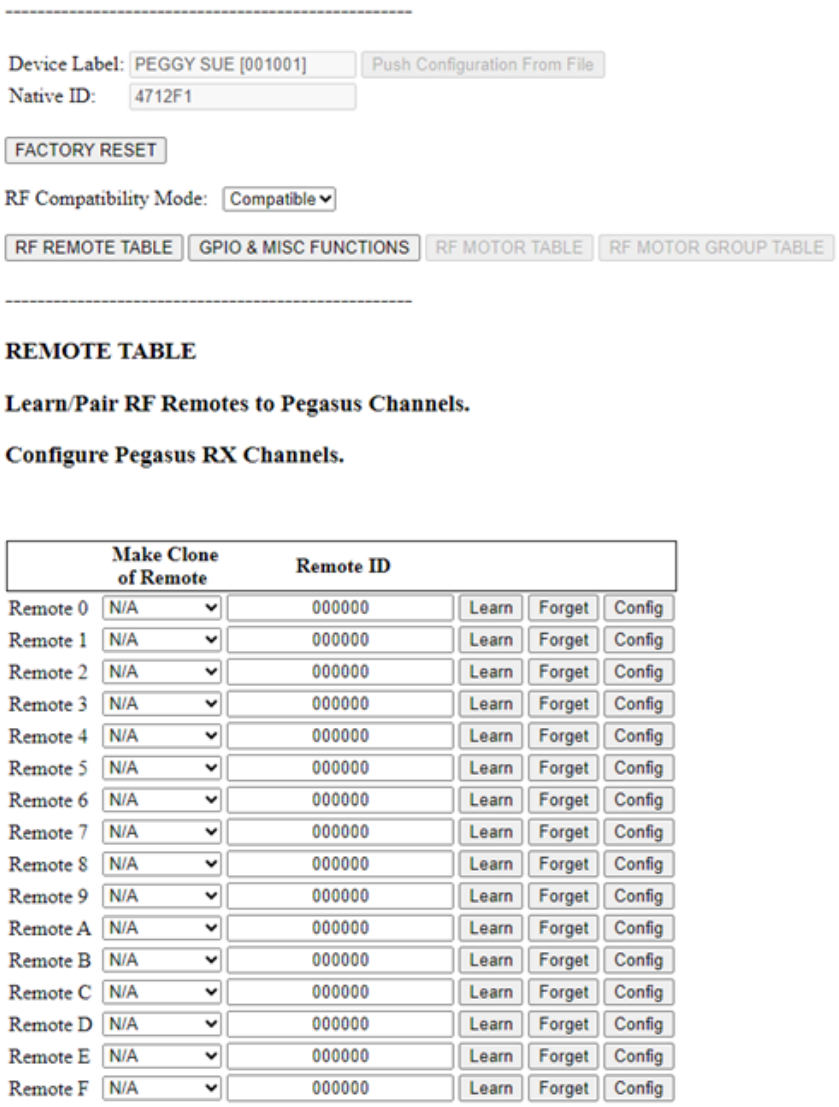
- Use this table to learn Legacy (Somfy /Olibra RF remotes, keypads, & sensors)
- Verify that the RF compatibility mode is set to Legacy
- Click the Learn button which will start flashing the Learn LED on this Pegasus
- Press the program button on the desired remote
- If the remote sends a valid RF program command, then the Learn LED will stop flashing and the Remote ID will appear in the corresponding row
- Now select the remote target for this learned remote
- When you have completed learning all the remotes and selecting your remote targets click on the Send Target to Device button to complete the process.



- If you no longer want this remote in your system, you can click the forget button to erase the remote
- NOTE: Somfy & Olibra remotes, keypads, and sensors use the “Legacy” compatibility mode, while Pico remotes use the “Compatibility” mode Click on the drop-down list to change between legacy and compatibility modes (See next page)
- NOTE: Most remotes, keypads and sensors have a programming button on the back, but some units the case may need to be removed and or a paper clip is needed to access through a pin hole.

Pegasus Transceiver Configuration – RF Remote Table

- Use this table to learn Legacy (Pico RF remotes, keypads, & sensors)
- Verify that the RF compatibility mode is set to Compatible
- Click the Learn button which will start flashing the Learn LED on this Pegasus
- Hold any button on the Pico remote for 7 seconds
- If the remote sends a valid RF commands, then the Learn LED will stop flashing and the Remote ID will appear in the corresponding row
- Now click on the config button to configure what the button(s) will trigger (see next page for details)
- If you no longer want this remote in your system, you can click the forget button to erase the remote

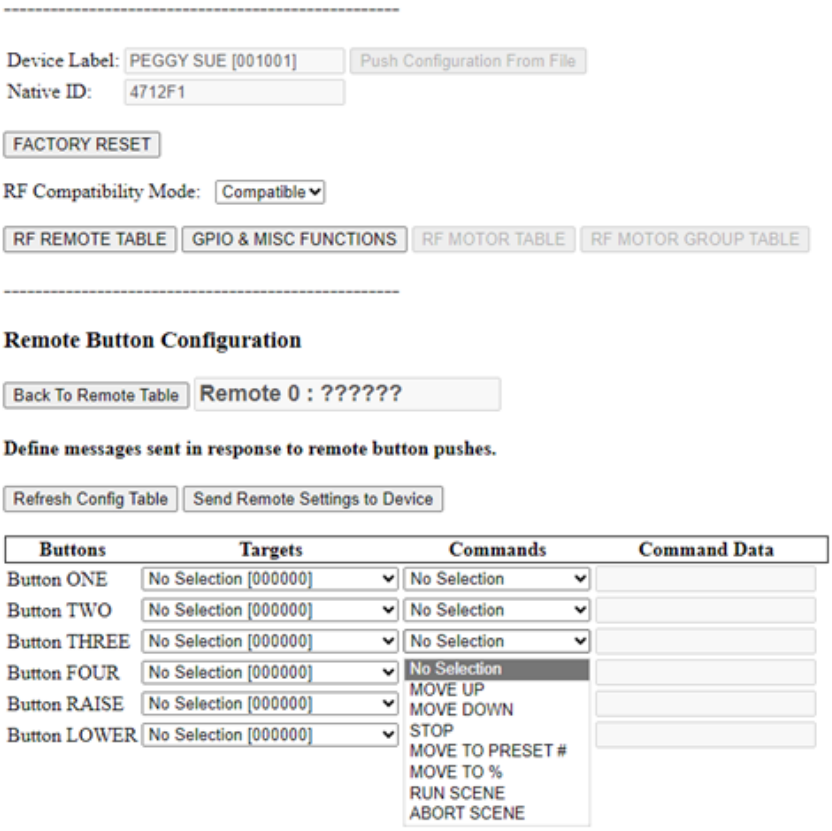


- NOTE: If you would like to use more than one Pico remote and every target and command are the same, you can use the Clone feature to speed up the configuration. Just select the remote you want to clone the features and send to the device
- NOTE: Pico remotes, keypads, and sensors use the “Compatibility” compatibility mode, while Somfy & Olibra remotes use the “Legacy” mode Click on the drop-down list to change between legacy and compatibility modes (See previous page)
- NOTE: If you are having issues learning a Pico, use the top button (button #1) and ensure you are holding the button down for at least 7 seconds.

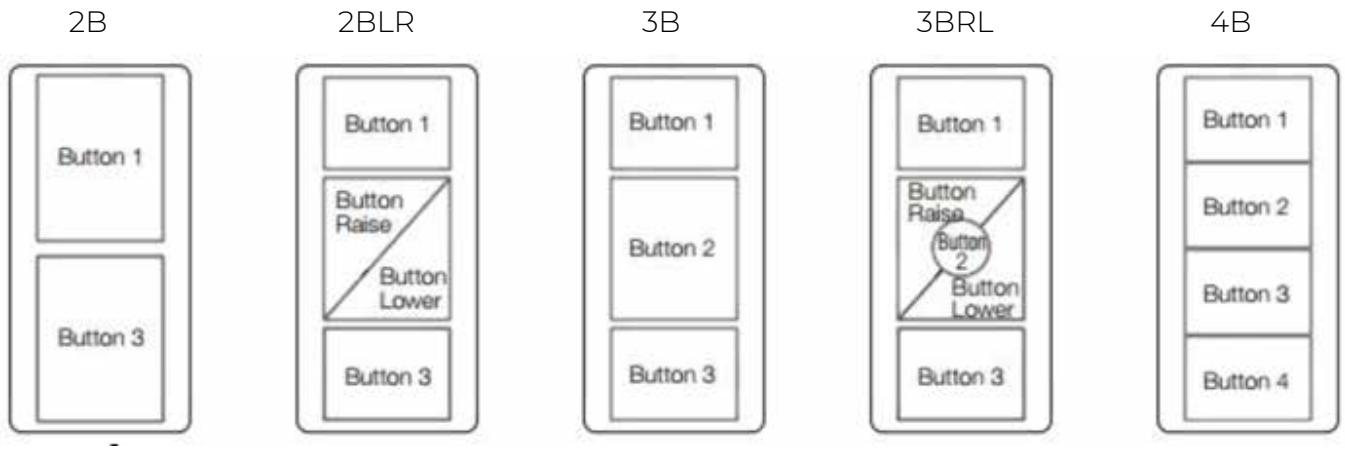
  NOTE; If nothing is programmed within 60 seconds, the Learn feature will time-out.

Pegasus Transceiver Configuration – RF Remote Table

- Select Targets for what the desired button actions are sent to (Devices, Groups, or Scenes)
- Select the command action associated to the desired button
- Some commands require data such as the IP # or % to move motor to
- When complete with your configuration click the send remote settings to device
- If you would like to start your configuration over, click the refresh table to deselect any current selections or command data entered in the table



- NOTE: Not all Pico remotes have all available buttons to program please see types and button numbers below to help match for your remote you want to learn



NOTE: If nothing is programmed within 60 seconds, the Learn feature will time-out.

Pegasus Transceiver Configuration – RF Remote Table

RF MOTOR TABLE

Pair Pegasus TX RF Channels with RF Motors.
Put the motor in program mode and then press the "RF Pair" button.
Type a label for the motor in the table field.

Refresh Table

	TX RF ID Code	Label	Integration ID	Native ID					
RF Motor 0	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor 1	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor 2	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor 3	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor 4	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor 5	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor 6	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor 7	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor 8	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor 9	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor A	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor B	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor C	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor D	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor E	??????				RF Pair	RF Test	Save	Edit	Delete
RF Motor F	??????				RF Pair	RF Test	Save	Edit	Delete

- This menu will allow you to program up to 16 motor channels. You can program as many motors as possible to each channel but all motors on that channel will perform the same commands when functions are sent to that channel.

- To program motors, use the factory remote and hold the up and down buttons or hold the program button typically found on the motor head until the motor jogs once. In many RTS motors they have an amber LED that will start to flash

- Once the motor is in the pair mode click on the RF pair button for the channel you would like to use for this motor. If successful, the motor will jog to confirm

- To test the motor channel, click on the RF test button and the motor should jog. You can type in a label and click on the save button to store in Pegasus

- If you want to remove the motor form Pegasus, then click on the delete button and confirm you want to delete the motor

Pegasus Transceiver Configuration – RF Remote Table

RF MOTOR GROUP TABLE

Pair Pegasus TX RF Channels with Groups of One or More RF Motors.

Select RS485 Group Addresses Which Will Trigger RF Transmissions.

Note: Hardware GPIO Triggers will send UP/DOWN/STOP commands to RF Group Channel F.

Refresh Table | Save Tx Table

TX RF Channel	TX RF ID Code	RS485 Group					
RF Group 0		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group 1		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group 2		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group 3		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group 4		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group 5		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group 6		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group 7		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group 8		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group 9		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group A		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group B		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group C		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group D		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group E		No Selection [000000]	Delay	Program	RF Test	Save	Config
RF Group F		No Selection [000000]	Delay	Program	RF Test	Save	Config

- This menu will allow you to program up to 16 motor group channels. You can program as many motors as possible to each Group Channel but all motors on that Group channel will perform the same commands when functions are sent to that channel.

- To program motors groups, use the factory remote and hold the up and down buttons or hold the program button typically found on the motor head until the motor jogs once. In many RTS motors they have an amber LED that will start to flash

- Once the motor is in the pair mode click on the program button for the RF group you would like to add to this motor. If successful, the motor will jog to confirm

- To test the motor group channel, click on the RF test button and the motor group should jog. Select the 485 group you want to use to trigger the RF group. Add any delay as needed and click on the save button to store in Pegasus

- We have also incorporated a quick way to add groups to motors using the config button

Pegasus Transceiver Configuration – RF Remote Table

RF MOTOR GROUP CONFIG

Add/Remove RF Motors To/From The RS485 Group.

The Pair/Unpair buttons act as a toggle. Without feedback the current state of the motor cannot be displayed.
The "Test RF Channel" button can be used to determine whether a motor has been paired to the group channel.

Back to TX Group Table

TX RF Group	TX RF ID Code	RS485 Group	
RF Group 0		No Selection [000000]	Test RF Channel

Motor Channel	Label	Integration ID	Member of Group (for Documentation Only)	
RF Motor 0		001004	☑	Pair / Unpair
RF Motor 1			☐	Pair / Unpair
RF Motor 2			☑	Pair / Unpair
RF Motor 3			☑	Pair / Unpair
RF Motor 4			☐	Pair / Unpair
RF Motor 5			☐	Pair / Unpair
RF Motor 6			☑	Pair / Unpair
RF Motor 7			☑	Pair / Unpair
RF Motor 8			☑	Pair / Unpair
RF Motor 9			☐	Pair / Unpair
RF Motor A			☑	Pair / Unpair
RF Motor B			☑	Pair / Unpair
RF Motor C			☐	Pair / Unpair
RF Motor D			☑	Pair / Unpair
RF Motor E			☐	Pair / Unpair
RF Motor F			☑	Pair / Unpair

- This table will show all 16 motor channels that have been already programmed (paired) with Pegasus. You can now just click the pair/unpair button to every motor that you want to be part of this RF motor group.
- You DO NOT need to put the motor into a programming or pairing mode for these groups
- The Test RF group can confirm that a motor was added to this group
- The member of the group check box is only for documentation purposes only.

Pegasus Transceiver Configuration – GPI/O

GPIO Functions

Define messages sent in response to GPIO Inputs.

Refresh GPIO Table | Send GPIO Settings to Device

Inputs	Targets	Commands	Command Data
CC Plus / 12V (low) / IR / UP	No Selection [000000]	No Selection	
CC Minus / 12V (high) / IR / Down	No Selection [000000]	No Selection	
CC Plus and Minus / IR / STOP	No Selection [000000]	No Selection	
0V-10V Control	No Selection [000000]		

RF Weather Sensor

Select target address to which sensor commands will be sent.
Pair the sensor to the Pegasus device (Learn) or Unpair the sensor (Forget).

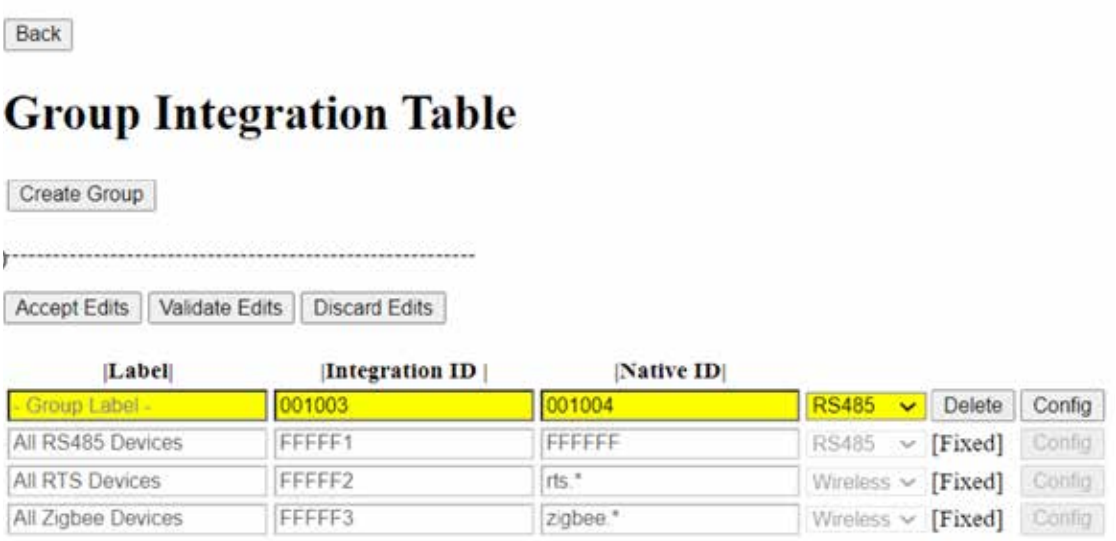
Refresh Table | Send Target to Device

Sensor Target		Sensor RF ID		
Sensor	No Selection [000000]	000000	Learn	Forget

- This menu will allow you to program the GPI/O inputs on Pegasus to one or more targets.
- Select which commands you would like to send for your selected input and any command data such as IP # or %
- A Sub GHz sensor can be learned into the Pegasus using the learn button. The Learn LED will start to flash on Pegasus, and you can click on the program button of the sensor. The Learn LED light will stop flashing once the sensor is paired
- Select the Sensor Target from the drop-down list of devices on your system
- When complete click on the Send GPIO Setting to device

  NOTE; If nothing is programmed within 60 seconds, the Learn feature will time-out.

Groups



- Clicking on the “Group Table” button will bring you to the Group Integration Table

- In this table, you can create, edit, import and delete groups

- Click on the “Create Group” button to create a new group.

- Optionally you can name your new group and you can adjust the integration ID if needed.

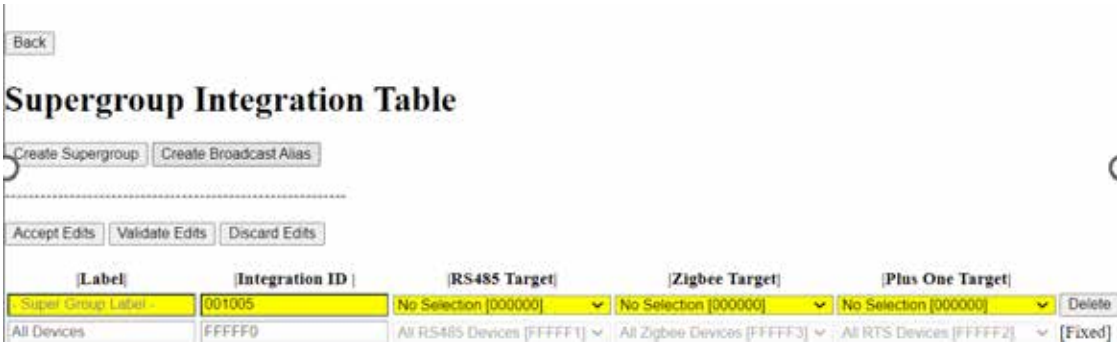
- Select the communication type for this group.

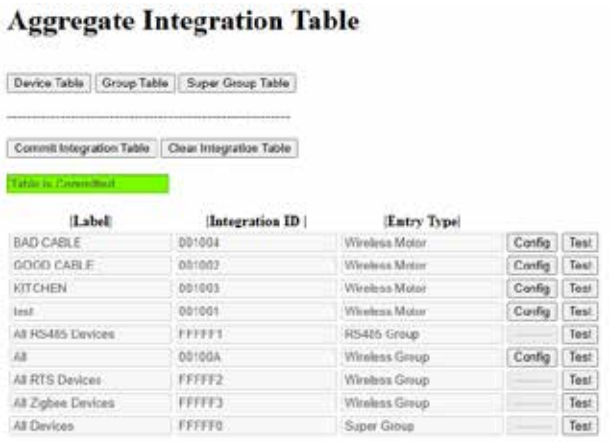
- Clicking on the “Import Wireless Devices and Groups” button will import wireless groups to this table.

- When you are done adding groups, you can accept them (Send to Aggregate Table) or validate them (run Design check), or erase them.

- Click Back to return to the Aggregate Integration Table.

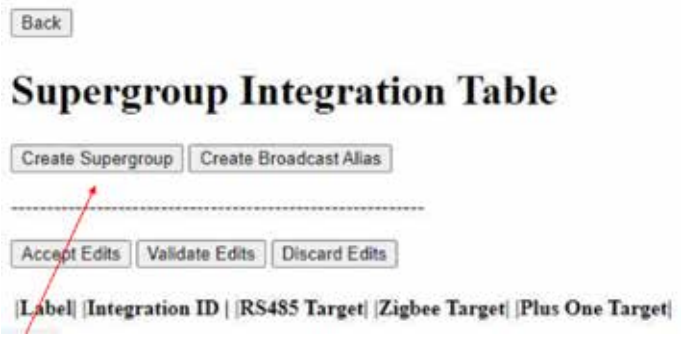
Super Groups





- Clicking on the “Super Group” table button, will bring you to the Super Group Integration Table.

- In this table, you can create, edit and delete super groups and broadcast aliases.



- Click on the “Create Super Group” button to create a new super group.

- Optionally you can name your new super group and adjust the integration ID if needed.

- Select any 485, Zigbee, or a +1 target.

- Targets can include motors, Zigbee Edge Routers and groups.

- When you are done adding super groups you can accept them (Send to the Aggregate Table) or validate them (run Design check), or erase them.

- Click “Back” to return to the Aggregate Integration Table or click “Broadcast Alias” button to create a new Broadcast capture.

Broadcast Alias

- Broadcast Alias are used with 485 devices that are normally sending broadcast addressed commands (FFFFFF) and allow you to target specific 485, Zigbee, RTS devices or groups.

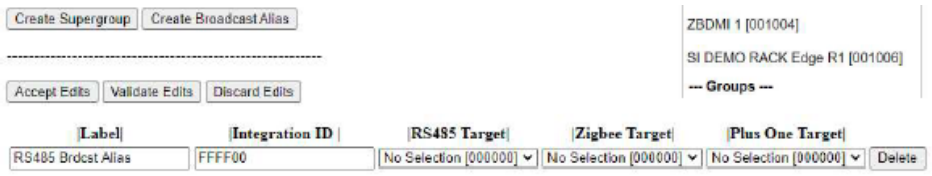
- Optionally you can name your new Broadcast Alias and adjust the integration ID if needed.

- Select any 485, Zigbee, or a +1 target.

- Targets can include motors, Zigbee Edge Routers, groups and super groups.

- Integration IDs enable specific port configuration to allow mulitple broadcasts in the same system.

  - **FFFF00** – All Ports
  - **FFFF01** – Port 1 capture only
  - **FFFF02** – Port 2 capture only
  - **FFFF03** – Port 3 capture only
  - **FFFF04** – Port 4 capture only



- When you are done adding Broadcast Alias you can accept them (Send to the Aggregate Table) or validate them (run De sign check), or erase them.

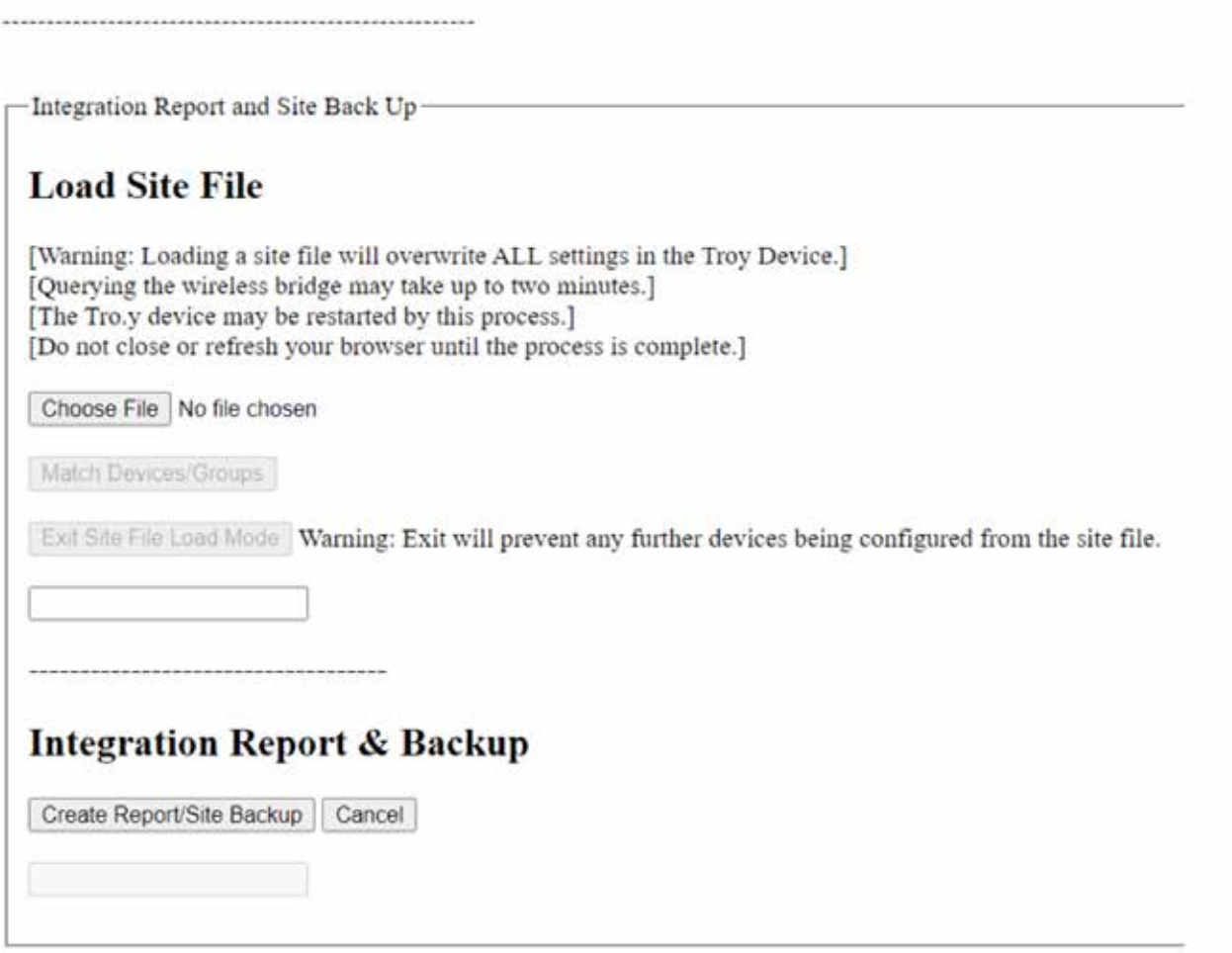
- Click Back to return to the Aggregate Integration Table.

Special Groups

- Valid special Groups (Broadcast capture, for use with 0-10v, Keypads, and Fontus)

  - **FFFFFF** (Basic 485 broadcast to other 485 devices within the logical segment before TROY / 2)
  - **FFFFF0** (All Motors, 485, RTS, Zigbee)
  - **FFFFF1** (485 Motors only)
  - **FFFFF2** (RTS Motors only)
  - **FFFFF3** (Zigbee Motors only)
  - **FFFF00** – All Ports
  - **FFFF01** – Port 1 capture only
  - **FFFF02** – Port 2 capture only
  - **FFFF03** – Port 3 capture only
  - **FFFF04** – Port 4 capture only

Report Files



Reports

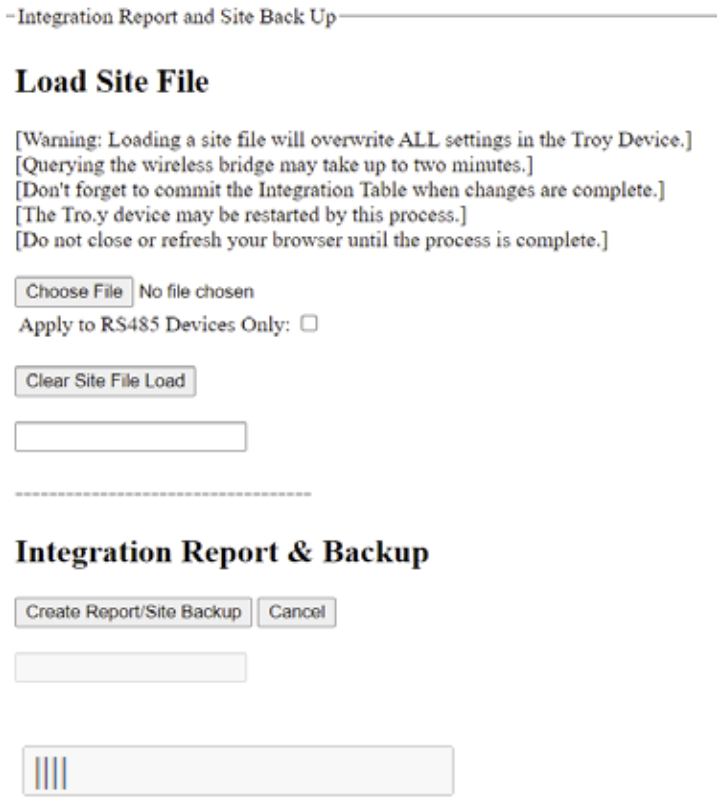
- Clicking on the “Report” button will take you to the Integration Report menu.

- In this menu you can create, delete, save and load site files and integration reports.

- These reports use .csv file format which can be used in most spreadsheets.

- These reports contain all system settings, device and group lists for documenting your project.

- Once you have clicked on the “Create Report/ Site Backup” button, the process to make the file will begin and depending on the size of your system can take 1-2 minutes.
  A progress bar is located below the button, which provides status of the creation/backup.



Loading Site Files

Note: Loading a Site File into TRO.Y / 2 will overwrite all settings

- Querying wireless bridges may take up to 2 min.s to complete.

- Ensure to commit the integration table when all data has been loaded.

- TRO.Y / 2 may be required to reboot during this loading process.

- Most important, do not close the browser window untill this loading process is complete.

- You can select to only apply updates to 485 devices which is useful when swapping a single 485 motor, as an example.

- Click on the Choose File button and if desired select the Apply to 485 devices only.

- Navigate to your site backup file and click “Open.”

- You will be notified in the status bar that the load is in progress and you will have a pop-up window in your browser indicating that TRO.Y / 2 must be restarted to begin the phase of Site file load, click OK to continue or “Cancel” to stop.

- The browser will now indicate that TRO.Y / 2 is now starting.

- The first task is for TRO.Y / 2 to communicate to the wireless bridge and you may see a pop-up warning in your browser from TRO.Y / 2 indicating that the number of wireless devices or groups in the site file not match the number that is configured in the wireless bridge.

Note: In order for proper system control you will need to remedy this, mismatch from the wireless bridge configuration.

- Click “Okay” on the pop-up to Continue.

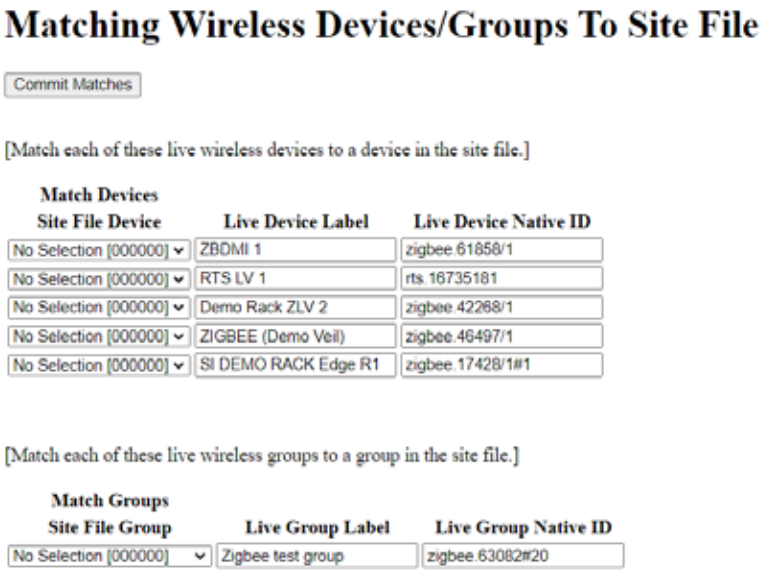
Loading Site Files (cont.)

- Now you must match the live devices, and groups with the devices and groups in your site file.

- Click on the dropdown box for each device/group to select which device/group you would like to pair with.

- When finished, click on the “Commit Matches” button.

- Continue until the status bar indicates that the site load is complete



- Now go to the Aggregate table, confirm that all of your devices and configurations have been loaded.

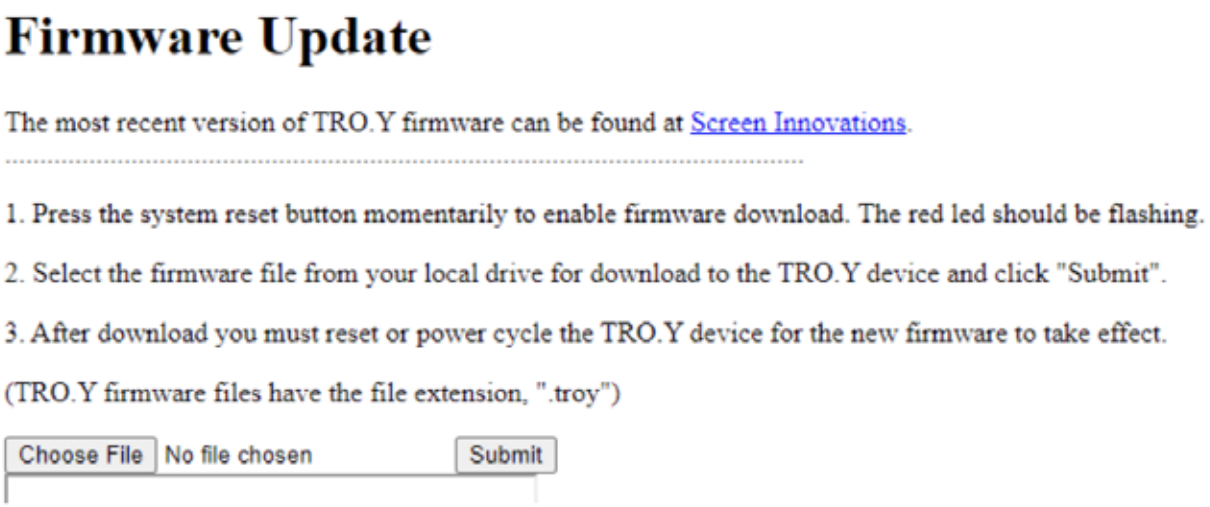
TROY 2 Bootloader Fix Information

Steps below to perform Boot Loader Fix for TROY unit to allow new TROY Firmware to be loaded.

1. Download and Unzip the Boot Loader Fix file “xxxxxxxx.troy” and the TROY 2 firmware file “Troy_FW_xxxx.zip” from the Screen Innovations website. **URL for BootLoader Needed**
   a. Firmware URL - https://support.screeninnovations.com/accessories/troy/

2. Press the Security Bypass button on the TROY unit to allow for the Firmware Upload and Update process to begin.

3. In the “System Settings” page of the TROY User interface, click on the “Choose File” button in the “Firmware Update” section. Next in the dialogue box, navigate to the Boot Loader Fix file “xxxxxxxx.troy” to upload to the TROY unit. Click on the “Submit” button when ready.



4. After the Firmware download has been completed you will need to Power-cycle the TROY unit. Upon reboot you will see the message below for the Bootloader Update.

5. Wait until the Firmware update is complete and then again Power-cycle the TROY unit. You will now be able to return to the TROY interface to perform the TROY firmware Up load from earlier Step .2, here simply follow Steps 2,3,4 to complete the next firmware upload.

Programming Troubleshooting

What if I don't have DHCP server?
Refer pages 4 & 5 for alternative methods and setting a static IP address.

When updating a firmware, keep receiving a Failed message
Ensure you have pressed the Reset button one time and the status LED is flashing red.

No TRO.Y / 2 LEDs are on
Check the PoE switch or PoE injector to see if it has proper power connections.

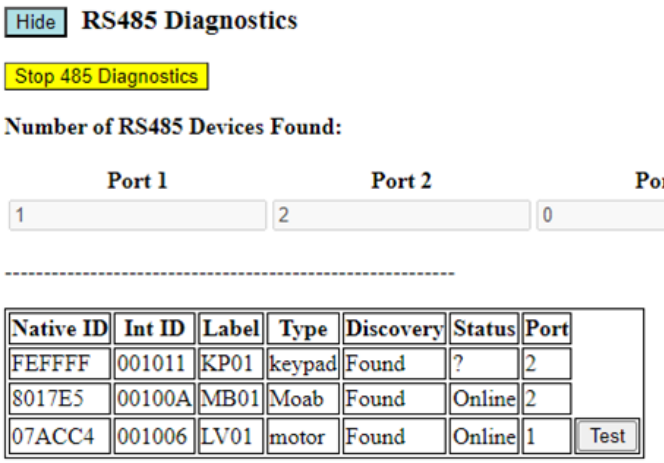
Some of the 485 ports LEDs are green and some are amber. What does this mean?
All four 485 ports are bus outputs. If the LED is amber, it means there is no device(s) connected to your CAT 5e. If the LED is green, it means there are atleast 1 device connected to your CAT5e.

I can't enable the high-speed server port and the Telnet server at the same time
This is correct, these are mutually exclusive. You can only use 1 or the other.

I have enabled my LinkProZ or TaHoma in the wireless bridge settings and entered the correct IP address and TCP port, however I cannot control any Zigbee or RTS motor.
Ensure you have enabled or refreshed a third party integration in the TaHoma app.

I have connected an RTS receiver to TRO.Y / 2 and the red LED of the receiver is on and I have programmed up to 4 channels in the TRO.Y / 2 device table, however I cannot control anything with my RTS device.
Ensure you have programmed the RTS receiver with the appropriate RTS channels, before connecting to TRO.Y / 2. A properly programmed RTS receiver will flash Red when initially connected to TRO.Y / 2 but then turn off.

How Can I determine which port a device is connected?
In the dashboard menu, show 485 diagnostic and then click on "Start Diagnostic"


Hide **RS485 Diagnostics**

Stop 485 Diagnostics

Number of RS485 Devices Found:

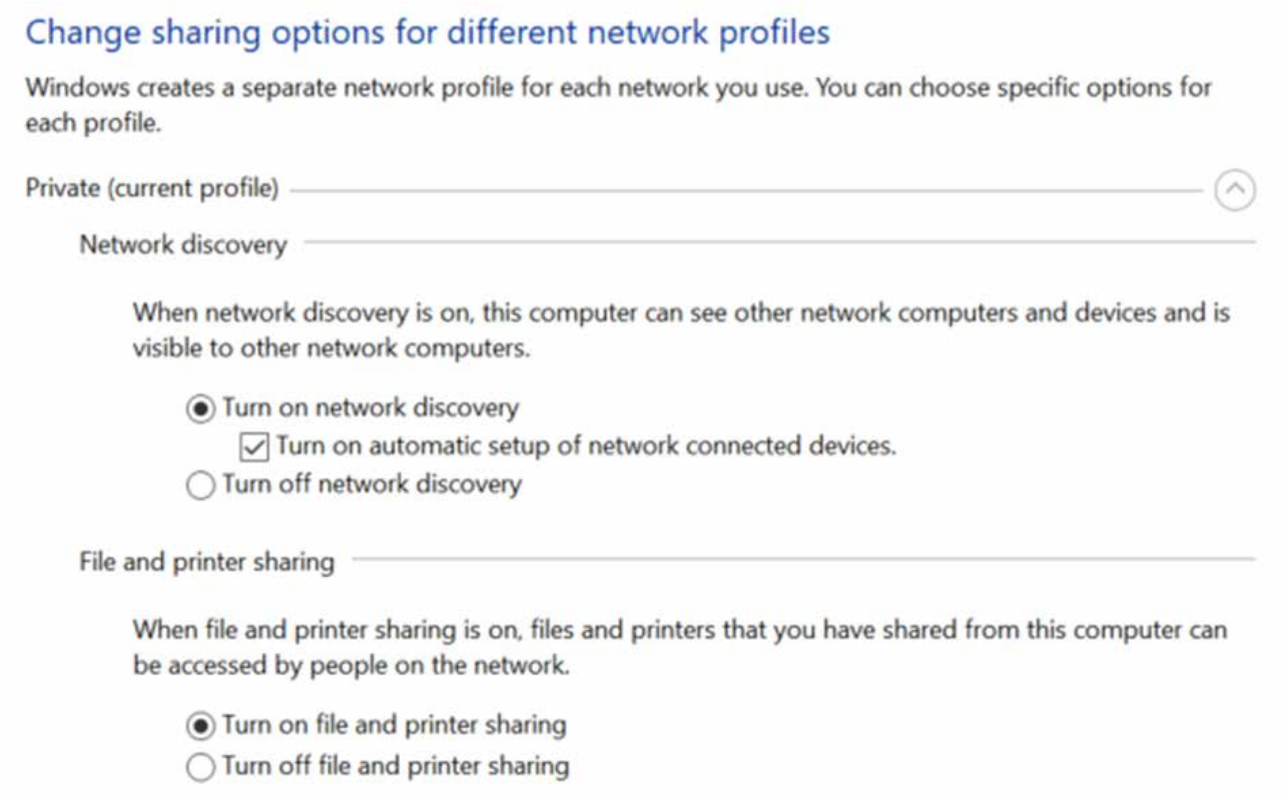
Port 1	Port 2	Port 3	Port 4
1	2	0	0

Native ID	Int ID	Label	Type	Discovery	Status	Port	
FEFFFF	001011	KP01	keypad	Found	?	2	
8017E5	00100A	MB01	Moab	Found	Online	2	
07ACC4	001006	LV01	motor	Found	Online	1	Test

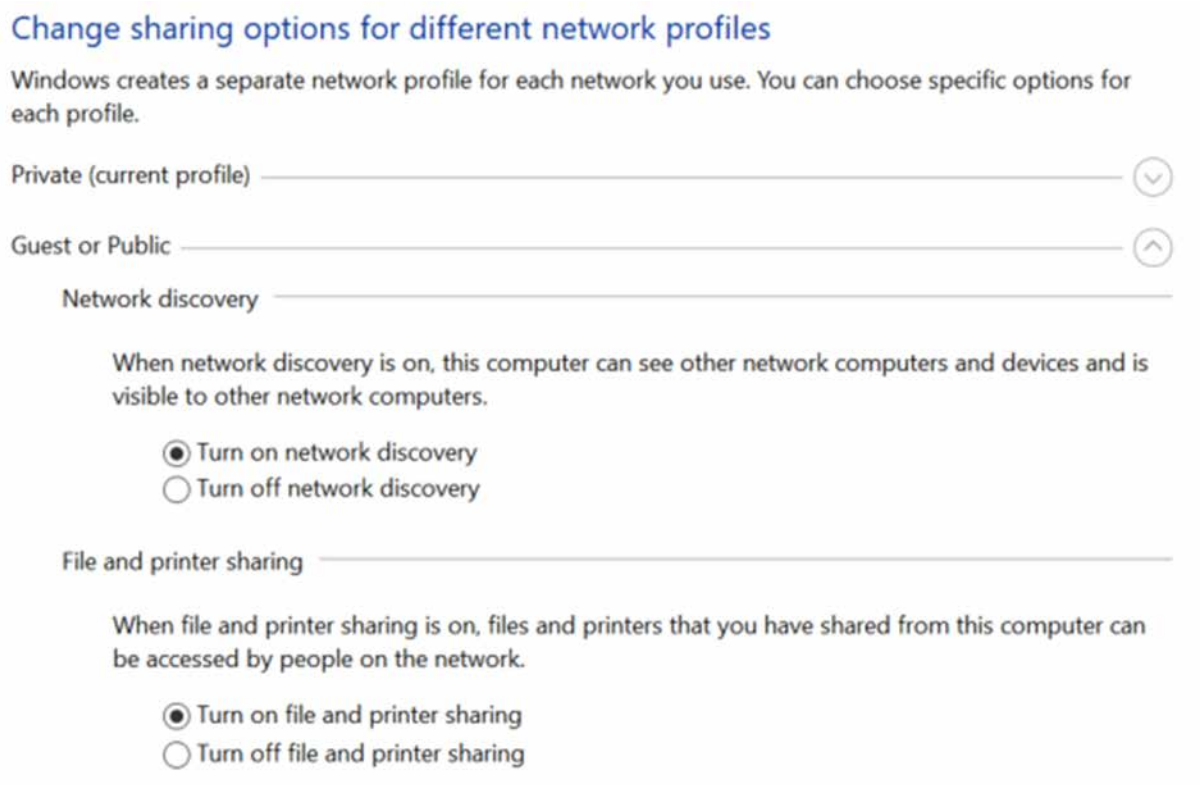
Windows Advanced Sharing Settings

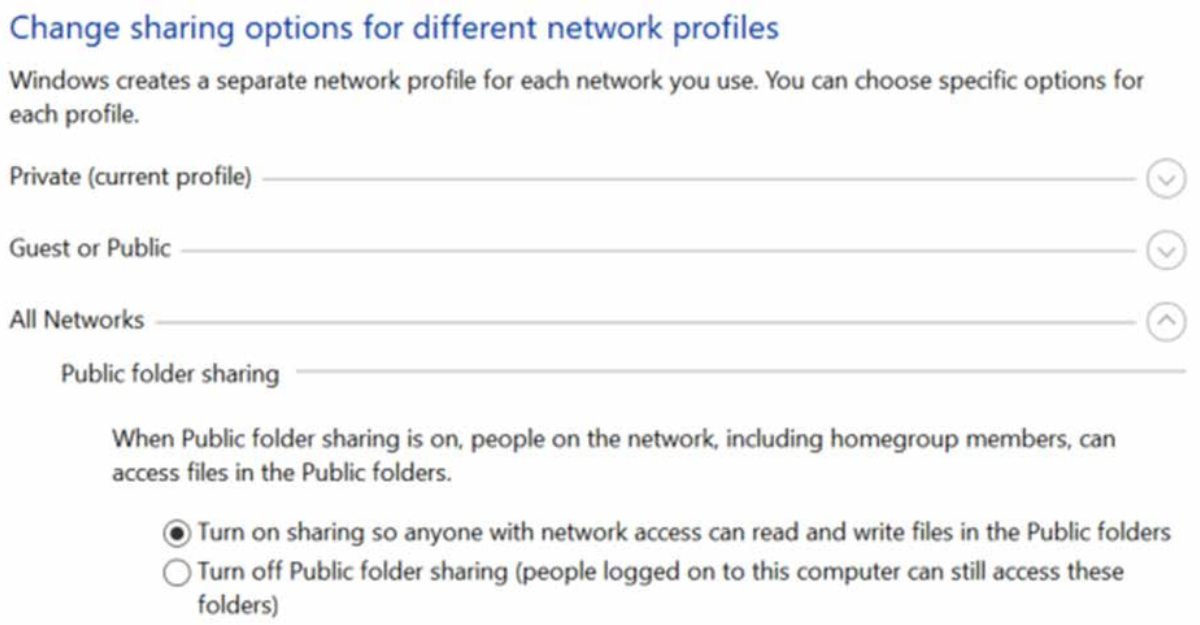
All of these options can be found in the “Advanced Sharing Settings” section of Windows (Directory Structure Below).

Control Panel\Network and Internet\Network and Sharing Center\Advanced sharing settings



Windows Advanced Sharing Settings (continued)





Firmware version used in this document

- TRO.Y - 2.17
- TRO.Y 2 - 2.17 / 3.7
- TRO.Y Offline site editor version 3.0
- BBP - 3.12.6beta
- HELEN - 1.2
- Decoflex (485) -5.53
- Decoflex (485 - Group) -5.27
- TaHoma / Link ProZ -2023.1.4
- Moab - 2.1
- Sidekick 3.10.2
- Pegasus 0.1
- SI App 2.33.1
- TaHoma North America App 1.7.4(348)
- Set&Go App - (141)

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