HOP SOFT Crestron Websocket Interface Driver

1. Overview

This driver provides two way interface between RTI and Crestron Automation System via Crestron websocket driver. Heartbeat signal is provided to Crestron System by pulsing digital signal with address 500 every 4s.

Driver provides 25 Thermostat/Climate sources which support auto programming feature.

IMPORTANT: This driver requires “CCI Websocket Server by Control Concepts” to be installed and configured on Crestron System. More information about this module can be found in Crestron Application Market.

2. Installation

Save CrestronWebsocket.rtidriver file into Integration Designer (APEX) driver folder.

Default location is: “Documents\Integration Designer\Control Drivers”

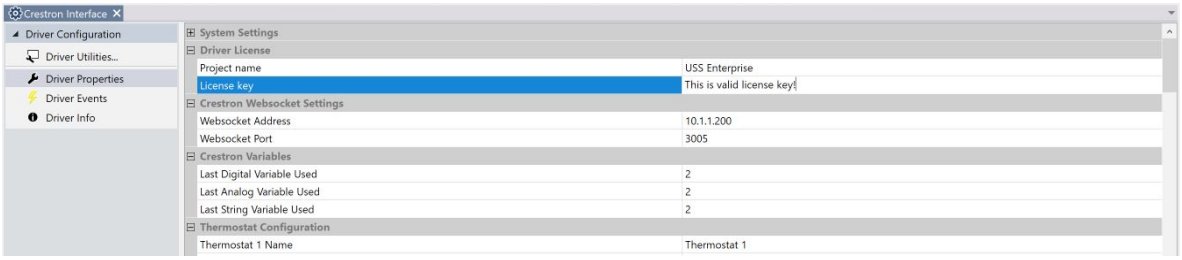
3. Driver Configuration

Add License

Project name (required) - This should be a brief description or identificator of the project where the driver is used.

License key - License key provided after driver purchase, driver comes with three day trial which gets automatically activated if no license key is entered.

License status is exposed via driver variables.



Crestron Websocket Parameters

Websocket Address (required) - Crestron websocket server IP or DNS name.

Websocket Port (required) - Crestron websocket server port.

Crestron Variables

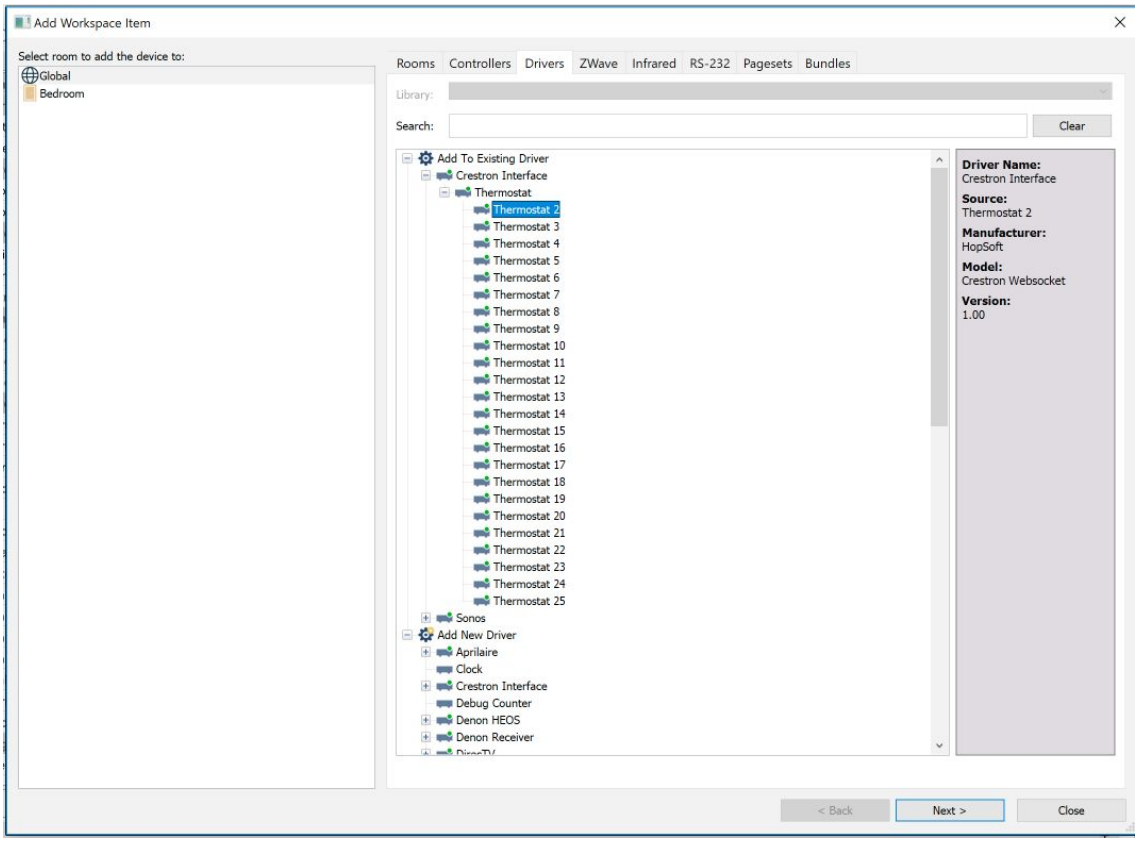
Driver supports (500/each) Digital, Analog and String variables provided by Crestron server. These are all hidden to Integration Designer by Default and can be uncovered by setting below properties.

1. Last Digital Variable Used
2. Last Analog Variable Used
3. Last String Variable Used

4. Thermostat/Climate source

Add Thermostat Source

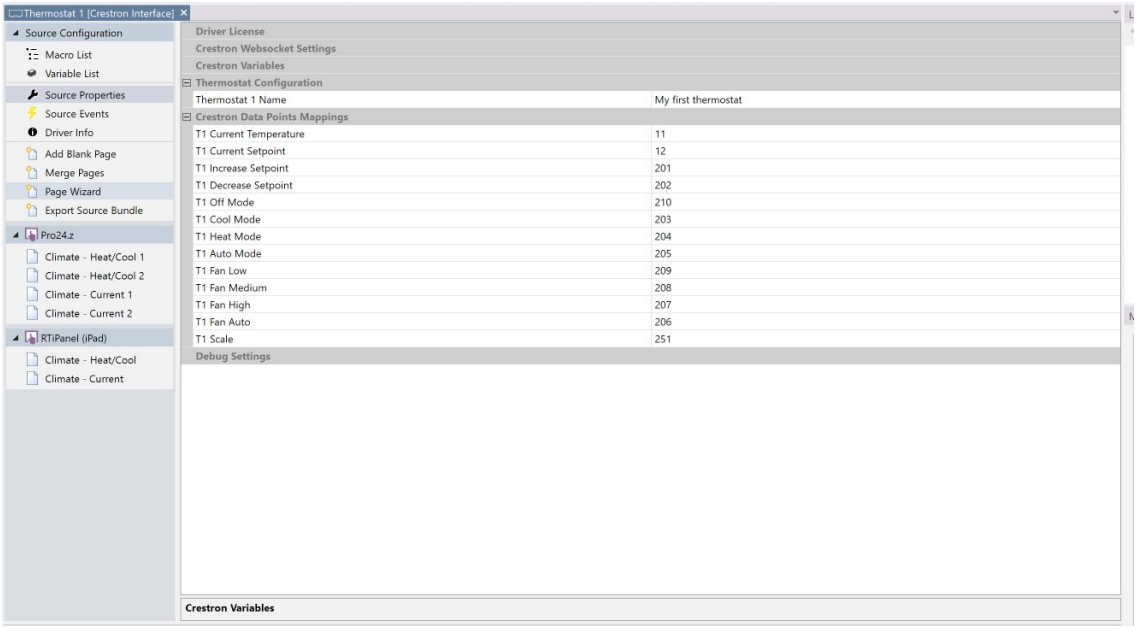
Driver provides 25 thermostat/climate sources, these can be add to rooms from “Add Workspace Item”



Configure Thermostat Source

Each thermostat source needs to be mapped to crestron data points (variables), these need to be provided by crestron programmer.

1. Current Temperature (String) - (example: “STRING[11,18.7 C]”)
2. Current Setpoint (String) - (example: “STRING[12,20.5 C]”)
3. Increase Setpoint (Digital)
4. Decrease Setpoint (Digital)
5. Off Mode (Digital)
6. Cool Mode (Digital)
7. Heat Mode (Digital)
8. Auto Mode (Digital)
9. Fan Low (Digital)
10. Fan Medium (Digital)
11. Fan High (Digital)
12. Fan Auto (Digital)
13. Scale (Digital)



5. Custom Tags

There are a number of “non-standard” tags used in the driver this is due to non supported functions on climate template.

- Stat Fan Low
- Stat Fan Med
- Stat Fan High
- Stat Scale Toggle
- Stat Scale C
- Stat Scale F

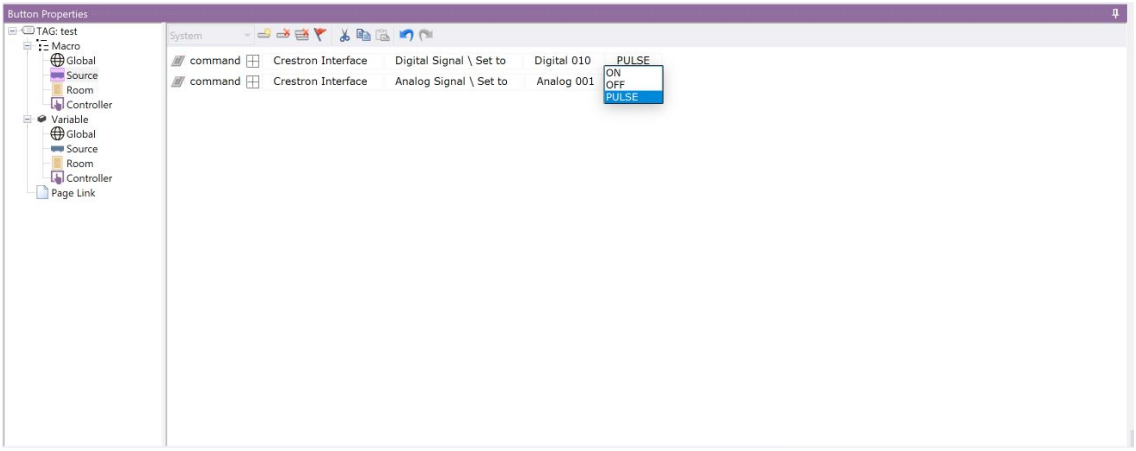
6. Control of non template devices

Control of non template devices such as lights, blinds, shades relays can be achieved by sending direct command to control any digital or analog data point.

Digital Signal Control

1. Drag and Drop “Digital Signal \ Set to” into your button properties
2. Select correct signal ID as first parameter
3. Select correct command as second parameter where:
    a. “ON” will turn digital signal ON (example: PUSH[10])

b. “OFF” will turn digital signal OFF (example: RELEASE[10])
c. PULSE will pulse digital signal (example: PUSH[10] -> delay -> RELEASE[10])



Analog Signal Control

4. Drag and Drop “Analog Signal \ Set to” into your button properties
5. Select correct signal ID as first parameter
6. Select desired level as second parameter, (can be used dynamically for slider control etc..)