



Carrier/Bryant – Thermostat

Overview

This driver enables control of a single Carrier Infinity or Bryant Evolution device when used in conjunction with the Carrier/Bryant Master driver.

One thermostat driver is needed per zone/thermostat that you wish to control. These should all be connected to one Master Driver that is tied to an individual customer Carrier/Bryant account. In almost every circumstance, this is handled automatically when the thermostat driver was added automatically by the master driver.

Known Limitations

- Carrier/Bryant presets names cannot be modified - any changes will be reverted to the standard name
- Carrier/Bryant presets must contain a heat setpoint, cool setpoint and fan level - any value not set will be reverted to its prior setting for the preset
- There can be at most 5 events per day
- When adding a zone or zones, please allow up to 5 minutes before changes can be made to that zone from a navigator.

Installation

Configuration

See the Carrier/Bryant – Master Driver documentation for initial setup procedure.

Driver Properties

DriverCentral Cloud Settings

Driver Version - [READ ONLY]

Shows the version of the driver running in the project.

Cloud Status - [READ ONLY]

Shows the license status of the driver.

Automatic Updates - [ON | OFF]

Set this to ON to allow the driver to automatically update when updates are available from DriverCentral.

Driver Settings

Log Level - [0 - Fatal | 1 - Error | 2 - **Warning** | 3 - Info | 4 - Debug | 5 - Trace]

Set this to level of logging desired to be sent to the log facility outlined in the "Log Mode" property.

Log Mode - [OFF | PRINT | LOG | PRINT AND LOG]

Sets the output facility for the messaged.

Location-System-Zone Info

Location - [READ ONLY]

Shows the location of the current zone; is the same value of the location set in the Carrier/Bryant Master Driver

System - [READ ONLY]

Shows the system (furnace/AC) of the current zone

Zone - [READ ONLY]

Shows the current zone; is the same value of as the driver name unless the driver name has been changed in Composer

Last Sync Time - [READ ONLY]

Shows the last time the zone was synced to the master driver with information from Carrier

Device UI

The capabilities available for controlling the zone/thermostat from the Control4 UI match with what is possible from the Carrier/Bryant app or directly on the thermostat/wall unit itself.

The UI allows for control of:

- The HVAC mode of the zone/thermostat: Off, Heat, Cool, Auto, Fan Only
- The fan mode of the zone/thermostat: Auto, High, Medium, Low
- The setpoint of the zone/thermostat, including heat and cool individual setpoints when in Auto
- The current preset (or 'Manual' mode if setpoints are manually set) of the zone/thermostat: Away, Home, Sleep, Wake
- The current hold mode of the zone/thermostat: Off, Hold Until, Permanent
- The schedule of presets for each day of the week

The UI also provides feedback for:

- The current temperature reported by the thermostat
- The current state of the thermostat (off, heating or cooling)
- The humidity reported by the thermostat
- The outside temperature and humidity reported through the thermostat as determined by Carrier/Bryant by the customer's address/zip code

Device UI – Extras Page

The Extras tab consists of the following option:

Temperature Scale

This sets the temperature scale between Celsius and Fahrenheit *for the entire location*. Please allow up to 5 minutes for this change-over to be properly reported and made by both the Infinity/Evolution system and Control4.

Change Log

20241208

- Fixes zone identification matching bug preventing master driver to thermostat driver communication

20241004

- Master Driver-only release

20240106

- Master Driver-only release

20231101

- Fixes issues with adding replaced wall units of the same name
- Fixes initial timezone offset calculation to use OS time if Carrier time isn't available yet
- Adds feature that marks orphaned wall units in composer with "DELETE"
- Adds Last Sync Time property
- Starts YYYYMMDD format release train

760

- Fixes issue with commands not being sent from driver to OpenAPI due to JSON library not properly accounting for empty tables/lists

755

- Fixes issue where location address is split across multiple lines in Location drop down list due to entire address being in 'address1' field

750

- Fixes thermostat schedule/events race condition where events were being added before presets of events existed in proxy

745

- Added support for heat pump data from API for a zone. **NOTE:** Control4 does not present heat pump specific controls or information. Heat pumps are presented as a normal zone
- Fixed bug on preset syncing that caused stack overflow errors
- Fixed bug that prevented thermostat zone syncing if unit's config did not have a temperature scale specified; zone's scale will fallback to project's scale

740

- Accounts for changes in OpenAPI architecture changing to pub/sub communication of wall units to OpenAPI cloud

- Faster initial feedback for manual changes made in navigators

730

- Bryant Evolution compatibility
- Better infinite/permanent hold support

722

- Initial release