



# Vestaboard v1.0.0

## Crestron Home™ Driver Application Guide

### Description

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This Crestron Home driver controls a Vestaboard split-flap display and supports the Vestaboard Flagship (25 columns x 6 rows) and Vestaboard Note (15 columns x 3 rows) over the Vestaboard Cloud API.

Below are platform drivers inside of the Vestaboard driver:

- Basic Message — Send a plain text message to the board with auto-formatting.
- VBML Message — Send a custom VBML JSON payload built using the Vestaboard VBML Playground. This widget is ideal for advanced layouts, colors, and dynamic content.
- Quote & Time — Display a rotating quote and author alongside the current time. Quotes are configured via a JSON file on the processor. Flagship only.
- Calendar — Display a monthly calendar with color-coded days. Calendar data is configured via a JSON file on the processor. Flagship only.

Custom Drivers can be developed by ControlWorks on request to meet a specific design request. Contact us at [support@controlworks.com](mailto:support@controlworks.com) to discuss your requirements.

**Internet access is required at all times.** This driver communicates with the Vestaboard cloud API and the ControlWorks license server. The processor must have outbound internet access for the driver to function.

This Crestron Home driver uses an Instance License that can be obtained at <https://store.controlworks.com>. Each combination of Crestron Home processor and Vestaboard requires a separate license in order to function.

To use a Vestaboard in SIMPL Windows, see our module at <https://store.controlworks.com>.

### Supported Processors

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This driver is supported in Crestron Home V2 processors running Crestron Home OS version 4.010.0260 or later.

# Table of Contents

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Description .....	1
Supported Processors.....	1
Table of Contents .....	2
Getting Started .....	3
Adding the Driver to a Crestron Home System .....	4
Vestaboard API Key .....	7
Module Instance License .....	8
How to Purchase a License .....	9
License Helper Driver .....	10
Basic Message Driver .....	11
VBML Message Driver .....	12
Quote and Time Driver .....	15
Calendar Driver .....	18
Support.....	21
Distribution Package Contents .....	21
Revision History .....	21
Development Environment .....	22
ControlWorks Consulting, LLC License Agreement .....	23

## Getting Started

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This Crestron Home driver controls a Vestaboard split-flap display and supports the Vestaboard Flagship (25 columns x 6 rows) and Vestaboard Note (15 columns x 3 rows). Internet access is required. This driver communicates with the Vestaboard cloud API and the ControlWorks license server.

### Managed Platform Drivers

Once the Platform Driver has been added, the following Managed Platform Drivers can be added:

- **Basic Message** — Send a plain text message with auto-formatting. Supports Flagship and Note. Can be triggered from a UI tile or Sequences and Quick Actions. See [Basic Message Driver](#).
- **VBML Message** — Send a custom VBML JSON payload built using the [VBML Playground](#). Supports Flagship and Note. Can be triggered from Sequences and Quick Actions. See [VBML Message Driver](#).
- **Quote & Time** — Custom functionality Driver that displays a quote and author alongside the current time. Quotes are configured via the Driver Installer settings. Flagship only. See [Quote & Time Driver](#).
- **Calendar** — Custom functionality Driver that displays a monthly calendar with color-coded days. Automatically updates daily when auto-send is enabled. Flagship only. See [Calendar Driver](#).
- **License Helper** — Displays license status and provides controls to update license information. Required for license activation. See [License Helper Driver](#).

Additional custom platform Drivers can be developed by ControlWorks on request to meet your client's needs. Contact us at [support@controlworks.com](mailto:support@controlworks.com).

### Licensing

This driver requires a Module Instance License available at [store.controlworks.com](http://store.controlworks.com). Each combination of Crestron Home processor and Vestaboard requires a separate license. A complimentary 7-day Trial Period is included if no other Vestaboard Driver licenses are present. See [How To Purchase a License](#).

### Getting Started

1. Add the driver. See [Adding the Driver to a Crestron Home System](#).
2. Enter your Vestaboard API Key. See [Vestaboard API Key](#).
3. Add the desired Managed Platform Drivers to your rooms.
4. Test drivers.
5. Purchase and activate a license — see [How To Purchase a License](#).
6. Add programming or messages. See each platform driver.

# Adding the Driver to a Crestron Home System

Note: These instructions and screenshots have been prepared with CP4-R version v3.010.0260 for Crestron Home. Future updates to Crestron Home may result in changes to the appearance or the steps required to implement the Driver.

1. This Driver requires an [Instance License](#) for permanent activation. If no license has been purchased the Driver will enable in [Trial Mode](#) for 7 days. Ensure the Crestron Home Processor has been configured to have Internet access for the driver to successfully reach ControlWorks Activation Servers. More information on configuring Crestron Home Ethernet Settings can be found at <https://docs.crestron.com/en-us/8525/Content/CP4R/Installer-Settings/Sys-Config/Ethernet-Settings.htm>.
2. Using the Crestron Home Setup App, navigate to the driver by pressing Menu > Settings > Configure System > Pair Devices > Drivers. Crestron Home will automatically update the list with any drivers that have been Side Loaded to the Crestron Home Processor.

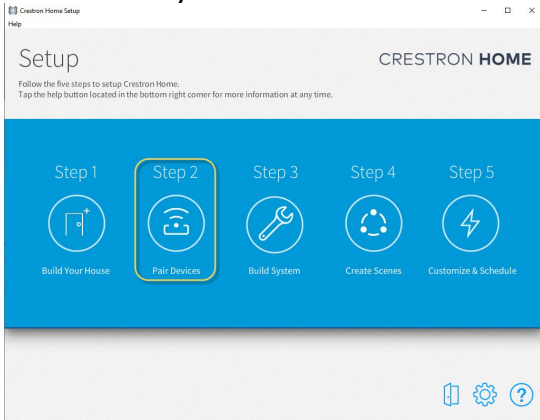


Figure 1 - Pair Devices

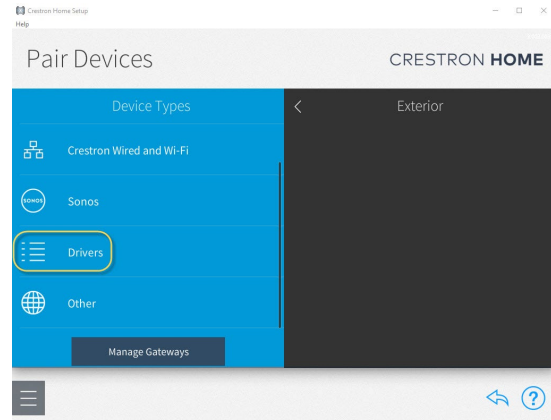


Figure 2 - Drivers Selection

3. After Crestron Home refreshes the Driver list, scroll the list of Drivers to locate and select the Platform category, then select Vestaboard.

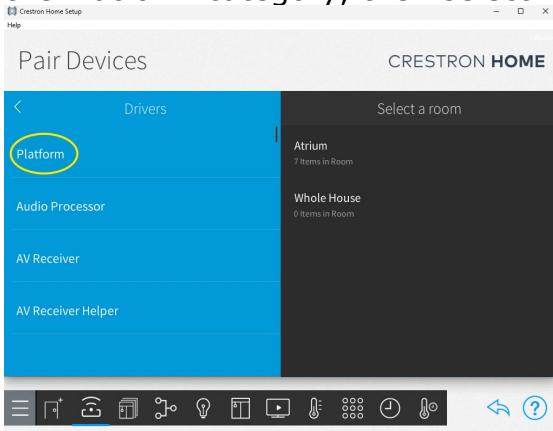


Figure 3 - Locating Platform

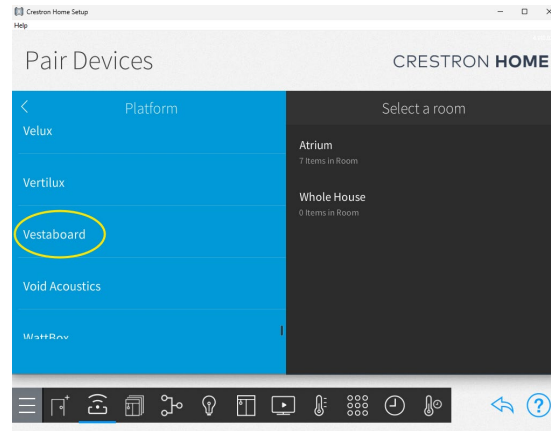
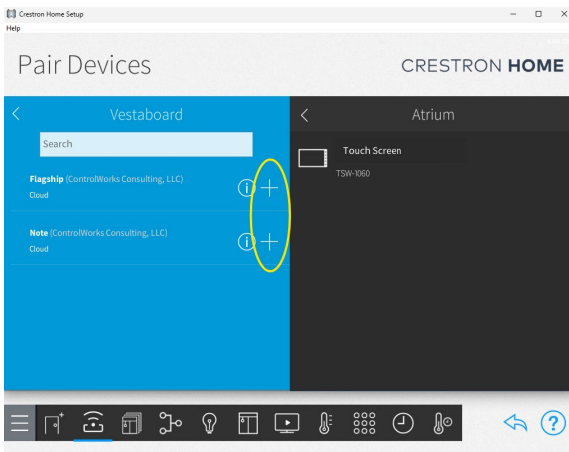


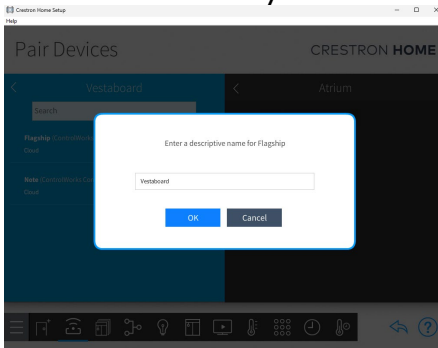
Figure 4 - Select Vestaboard

4. Choose a Room from the "Select a Room" list that the Vestaboard is to be added to, then select the + button next to the Vestaboard Platform driver to add the driver to the room.



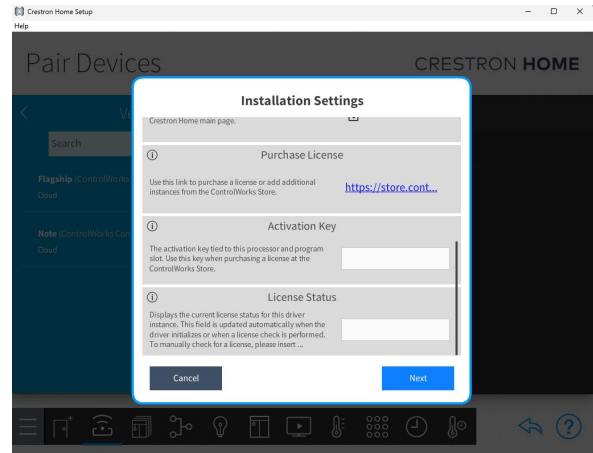
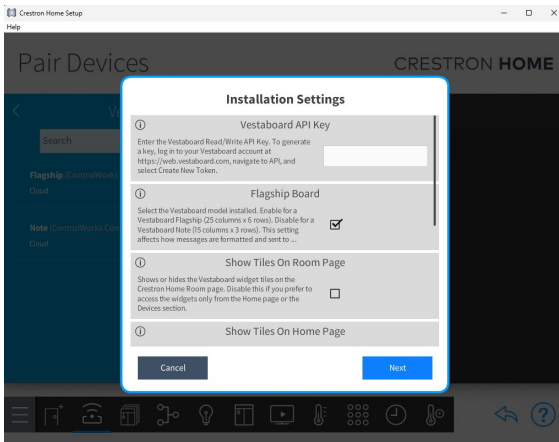
**Figure 5 - + Button to Add**

5. Enter a name of your choosing for the driver.



**Figure 6 - Adding Name**

Next you will be presented with installation settings.



6. The installation items are as follows:

- **Vestaboard API Key:** Enter the Vestaboard Read/Write API Key. See [Vestaboard API Key](#).
- **Flagship Board:** Select the Vestaboard model installed. Enable for a Vestaboard Flagship (25 columns x 6 rows). Disable for a Vestaboard Note (15 columns x 3 rows). Note: The Calendar and Quote & Time widgets are designed for the Flagship and are not compatible with the Note. For a Note board, use the Basic Message or VBML Message Drivers only.

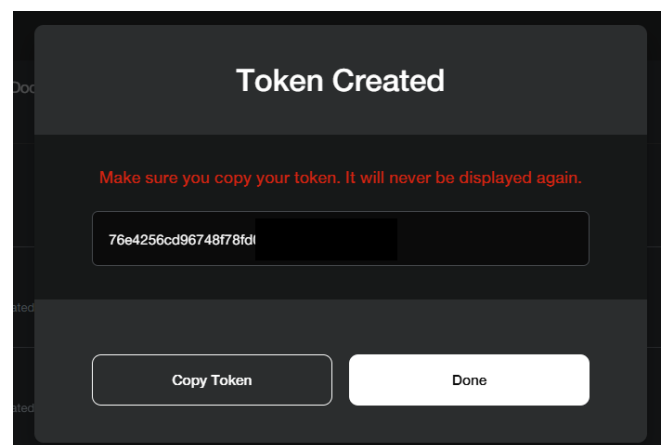
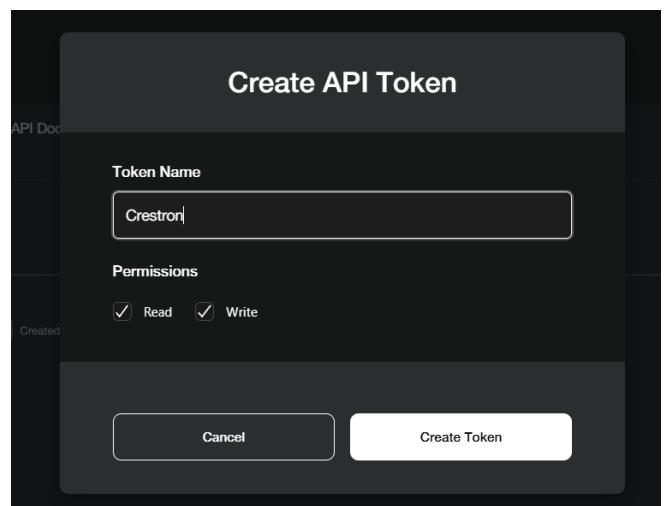
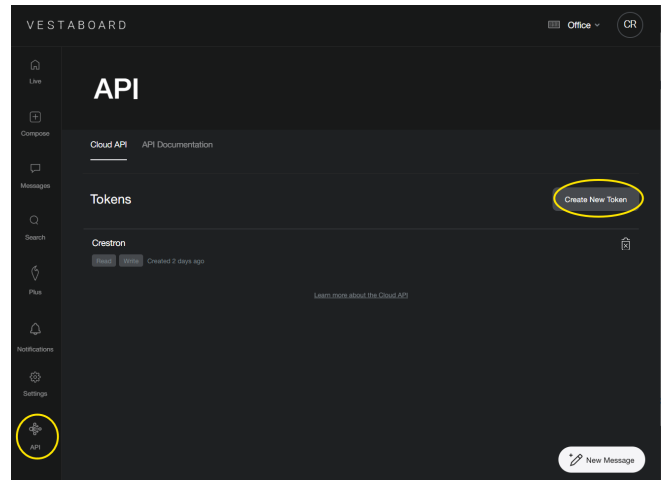
- **Show Tiles On Room Page:** Shows or hides the Vestaboard Driver tiles on the Crestron Home Room page. Disable this if you prefer to access the widgets only from the Home page or the Devices section.
- **Show Tiles On Home Page:** Shows or hides the Vestaboard Driver tiles on the Crestron Home main page.
- **Purchase License:** Use this link to purchase a license or add additional instances from the ControlWorks Store. This field will be populated once the driver has been added.
- **Activation Key:** The activation key tied to this processor and program slot. Use this key when purchasing a license at the ControlWorks Store. This field will be populated once the driver has been added.
- **License Status:** Displays the current license status for this driver instance. This field will be populated once the driver has been added. To have the driver check the activation server for a purchased license, please add the License Helper Driver, and press the "Check for License Now" button to refresh the license. For more details, see [License Helper Driver](#).

## Vestaboard API Key

This Driver communicates to the Vestaboard service over the internet to the Vestaboard servers. Accessing this service requires an API Key that can be obtained at <https://web.vestaboard.com/>.

### Steps to obtain the API Key:

1. Open a browser and navigate to <https://web.vestaboard.com> and login to your account.
2. On the left navigation drawer, the bottom item is API. Select API.
3. On the API Page, select "Create New Token"
4. The Token dialog will be displayed. Enter a name (we recommend "Crestron") and press Create Token.
5. The token will be displayed.
  - Copy this token and save it in your project documentation.
  - This token will be used in the API Key installation settings for the Platform Driver.



## Module Instance License

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This Platform Driver requires a Module Instance License, which can be obtained by following the steps in the following section [How To Purchase a License](#).

Each instance of a Platform Driver in a system requires an associated license.

Licenses are purchased using an Activation Key unique to each Crestron Home Processor.

You may purchase additional Licenses may at any time using the same Activation Key. If you have purchased one or more licenses for the processor previously, you may return and add additional licenses at any time [following the steps below](#).

### **Trial Period**

To aid testing, the Module includes a complimentary 7-day Trial Period, during which time the Driver is fully functional. This Trial Period functionality requires that the system has active Internet connection and is able to reach ControlWorks' activation servers.

The Trial period is only available when no licenses have been purchased for this Driver. If one or more licenses have been purchased, any additional Vestaboard Drivers that are not licensed will not function until a license is purchased.

The trial period begins when the Driver is initially loaded. Trial Period extensions are not available at this time.

### **License Changes and Transfers**

If a processor fails and is replaced, the license will need to be updated. We offer one complimentary reassignment of the license. A processing fee is required for subsequent reassignment of the licenses.

All licenses associated with an Activation Key must be transferred together. Unused licenses, or a quantity of used or unused licenses cannot be transferred.

### **To Transfer a License**

Ensure the Driver has been added to the system, is operational, and in trial mode.

Email [support@controlworks.com](mailto:support@controlworks.com)

- The existing License Unique Identifier – Found on your purchased products page
- The new Activation Key – Found in the driver settings.

You can find the existing License Unique Identifier on your receipt (listed as "Activated License UID") or by logging into your account at <https://store.controlworks.com/account/login.aspx>. Navigate to the Your Purchased Services section to locate the License Unique Identifier.

## How to Purchase a License

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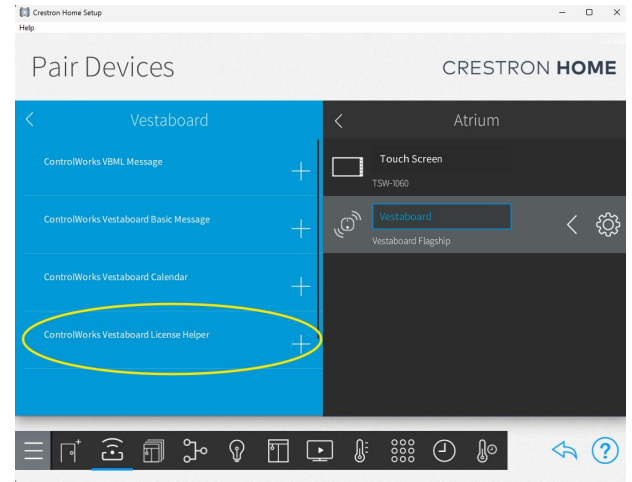
1. Ensure the previous section [Adding the Driver to a Crestron Home System](#) has been completed.
2. Locate the License URL.
  - a. In Crestron Home setup tool, open the Platform Driver installation settings.
  - b. In the Crestron Home setup tool:
    - i. Navigate to Pair Devices.
    - ii. Select the room where you added the platform.
    - iii. Locate the Platform Driver (this will have the same name configured in a previous step and select the Gear Icon.
    - iv. Select "Installer Settings".
    - v. Locate the "License URL" field and click the link. This link contains a URL to the ControlWorks store including the Activation Key. When clicked, a browser will open the ControlWorks license page and automatically populate the necessary information in the Activation Key field.
3. Complete the license purchase.
  - a. If you need to purchase additional licenses for the same Processor at a later time, you may simply return to the License Page and, using the same Activation Key, purchase additional licenses.
4. Add the License Helper Tile
  - a. In the Crestron Home Setup tool, navigate to Pair Devices.
  - b. Select Managed Platforms.
  - c. Select the Driver Folder with the name you used when setting up the driver from a previous step.
  - d. Locate the ControlWorks Vestaboard License Helper and press the + button to add the Helper Driver.
5. On an end user touch panel (such as a TS-1070 or Crestron Home App), select the License Helper tile on the Home or Room Page, and press "Update License Information".
  - a. The touchpanel field will update with the new license information.

# License Helper Driver

The License Helper is a Managed Platform Driver that displays the current license status for the Vestaboard driver and provides controls to update license information. Adding the License Helper to a room is only required if you wish to view license status or manually trigger a license check from a touch panel.

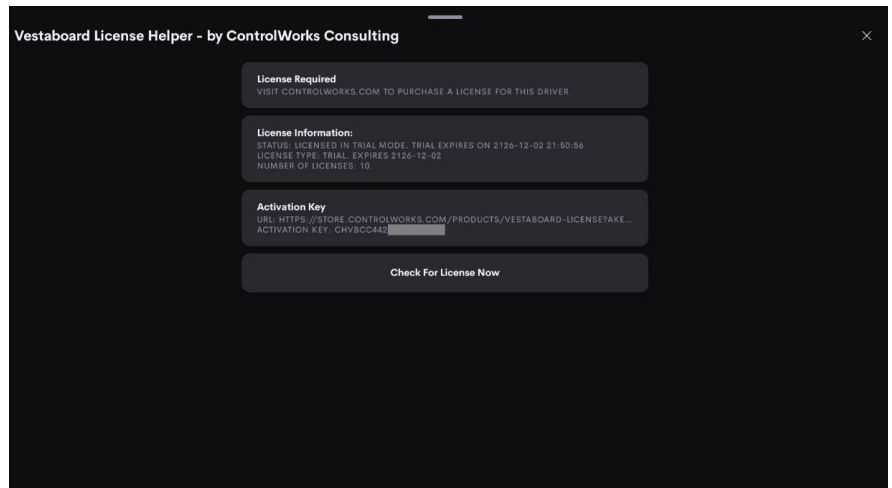
## Adding the License Helper

1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the driver folder with the name you used when setting up the driver.
4. Locate the ControlWorks Vestaboard License Helper and press the + button to add it to a room.



## License Helper Controls

- **License Information:** Displays the current license status, license type, expiration date, and number of licenses associated with this processor.
- **Activation Key:** Displays the store URL pre-populated with your activation key, and the activation key itself. Use this key when purchasing a license at the ControlWorks Store.
- **Check For License Now:** Press this button after purchasing a license to retrieve and apply the new license from the ControlWorks activation server. Internet access is required.



## Notes

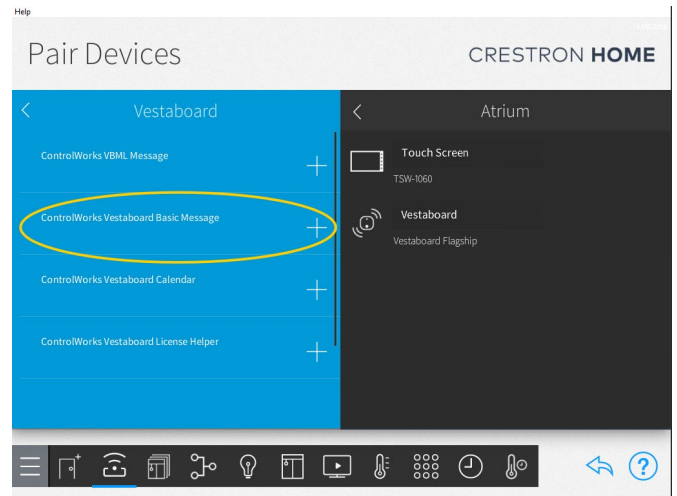
- The License Helper requires internet access to communicate with the ControlWorks activation server.
- If the processor does not have internet access at startup, the driver will automatically retry when the network becomes available.
- For details on purchasing a license, see [How To Purchase a License](#).

# Basic Message Driver

The Basic Message is a Managed Platform Driver that allows a plain text message to be sent to the Vestaboard with auto-formatting. The Vestaboard controls the character layout and spacing automatically. Supports both Flagship and Note.

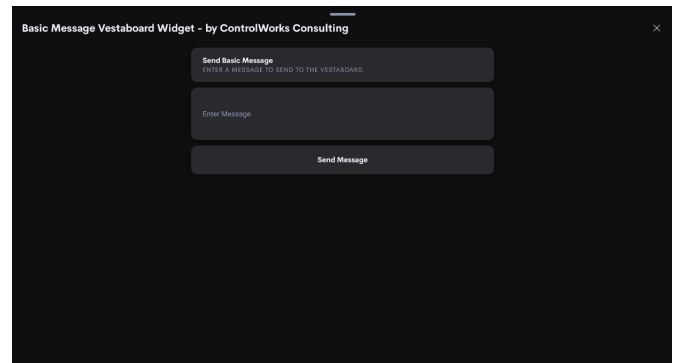
## Adding the Basic Message Driver

1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the driver folder with the name you used when setting up the driver.
4. Locate the ControlWorks Vestaboard Basic Message and press the + button to add it to a room.



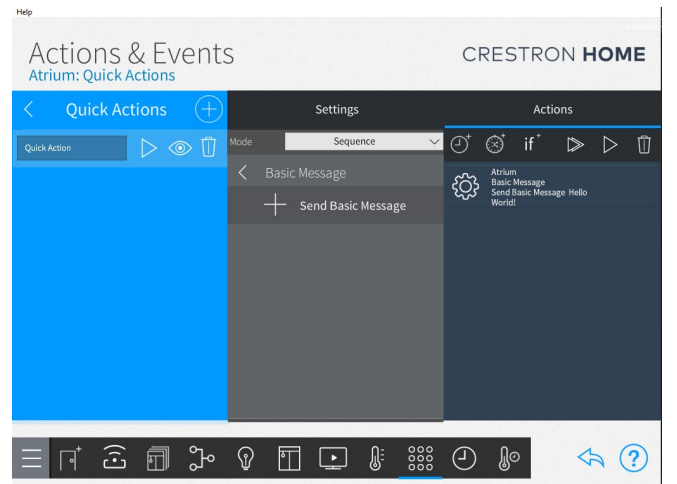
## Basic Message Controls

- **Send Basic Message:** Displays a label and description prompting the user to enter a message.
- **Enter Message:** A text entry field where the user types the message to be sent to the Vestaboard.
- **Send Message:** Press this button to send the message to the Vestaboard.



## Sequences and Quick Actions

The Basic Message driver can be triggered from a Sequence or Quick Action using the Send Basic Message action. This allows a message to be sent to the Vestaboard as part of an automated event.



## Notes

- Messages are rate limited to one message every 30 seconds. If a message is submitted within 30 seconds of the previous message it will be skipped.
- Duplicate messages will not be sent. If the same message is submitted more than once only the first instance will be sent to the board.
- Sending a Basic Message will stop any auto-send features running on other Managed Platform Drivers such as Quote & Time or Calendar.

# VBML Message Driver

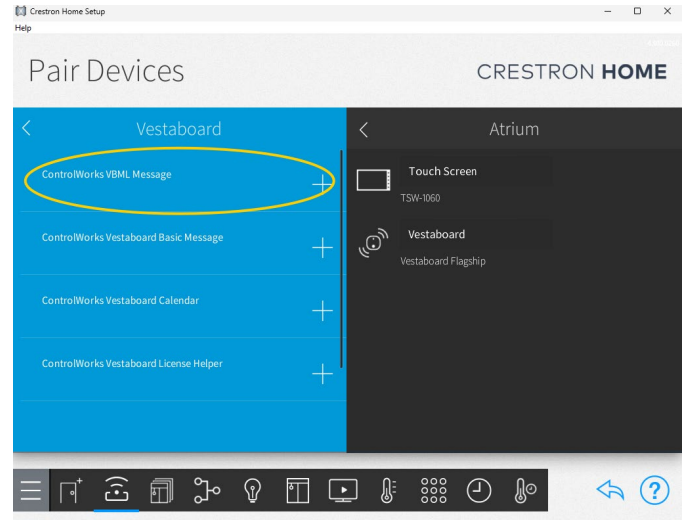
The VBML Message is a Managed Platform Driver that allows you to compose a custom formatted message using the [VBML Playground](#) to create the message and then send that message to the Vestaboard using Crestron. If you are wanting to create a custom message, you can utilize this free tool to generate the content.

Unlike the Basic Message driver, the VBML Message driver has no touch panel UI and is driven exclusively through Sequences and Quick Actions. This driver is ideal for advanced layouts, colors, and dynamic content. Supports both Flagship and Note.

This section describes how to generate a custom message using the VBML Playground and then send that content using Sequences and Actions.

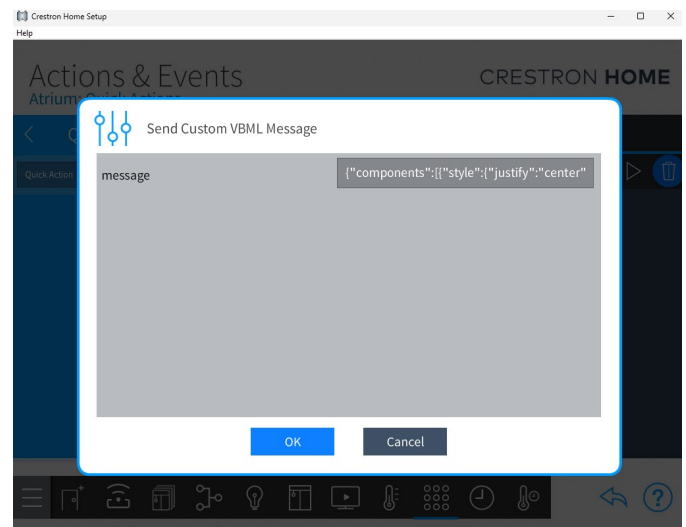
## Adding the VBML Message Driver

1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the driver folder with the name you used when setting up the driver.
4. Locate the ControlWorks Vestaboard VBML Message and press the + button to add it to a room.



## Sequences and Quick Actions

The VBML Message driver is triggered from a Sequence or Quick Action using the Send Custom VBML Message action. The message parameter accepts a VBML JSON payload as a string.



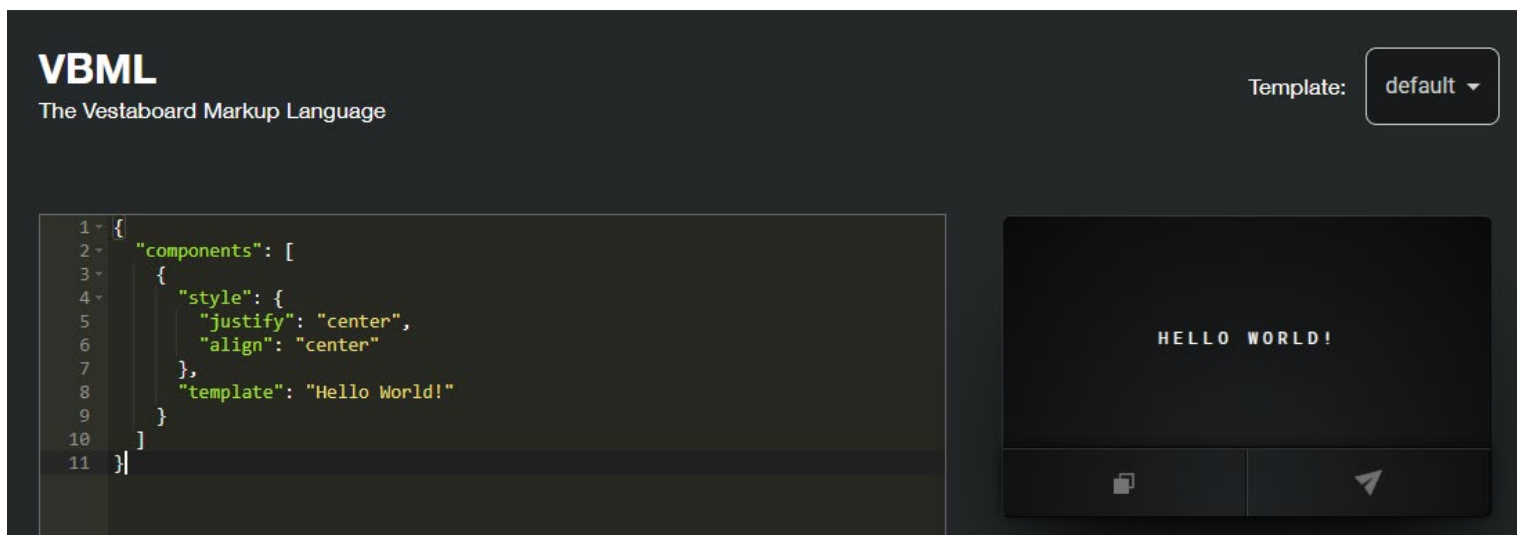
## Constructing a VBML Message

VBML messages are JSON payloads that define the content and layout of the message to be displayed on the Vestaboard. The [VBML Playground](#) is a free interactive tool that lets you build and preview your message before sending it to the board.

A basic VBML message looks like this:

```
{"components":[{"style":{"justify":"center","align":"center"},"template":"Hello World!"}]}
```

Using the [VBML Playground](#) you can verify the desired message has the correct look and feel.



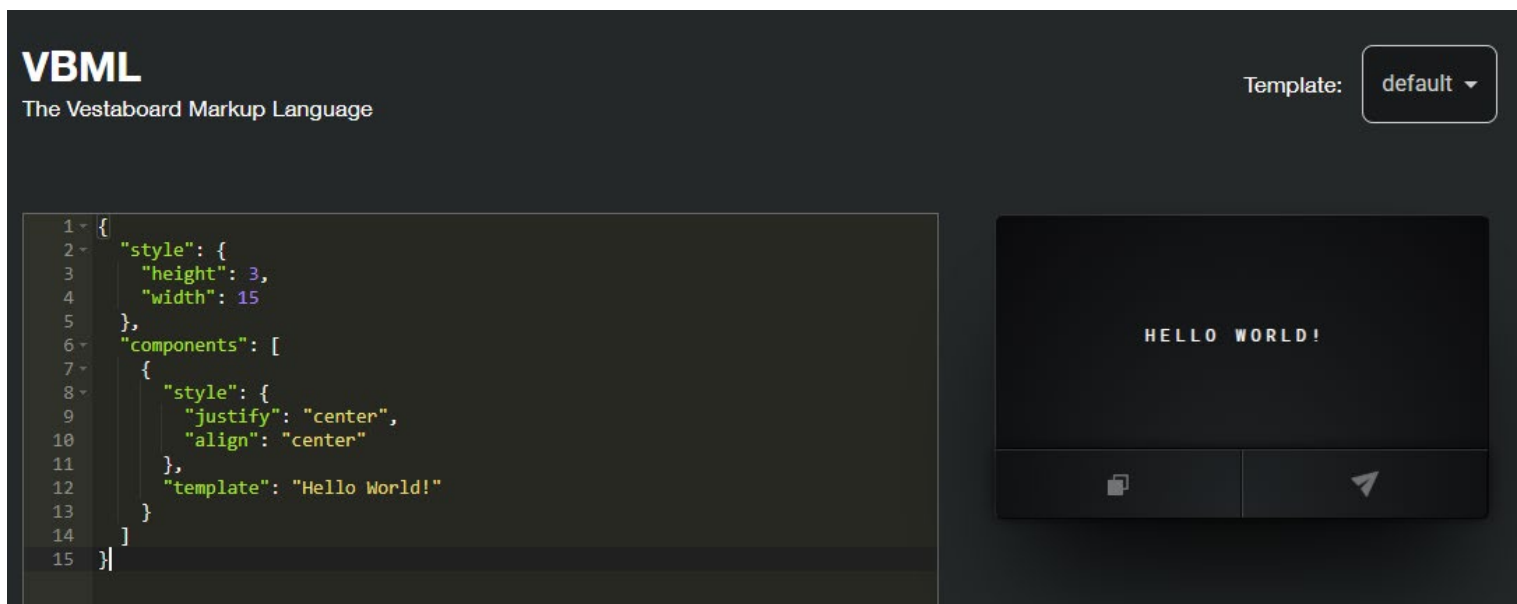
The screenshot shows the VBML Playground interface. On the left is a code editor with the following JSON code:

```
1 {
2   "components": [
3     {
4       "style": {
5         "justify": "center",
6         "align": "center"
7       },
8       "template": "Hello World!"
9     }
10  ]
11 }
```

On the right is a preview window showing a dark background with the text "HELLO WORLD!" centered. Below the preview are icons for copy and share. The top right of the interface has a "Template:" dropdown menu set to "default".

For a Vestaboard Note, include the root style property to set the board dimensions:

```
{"style":{"height":3,"width":15},"components":[{"style":{"justify":"center","align":"center"},"template":"Hello World!"]}
```



The screenshot shows the VBML Playground interface with a different JSON payload in the code editor:

```
1 {
2   "style": {
3     "height": 3,
4     "width": 15
5   },
6   "components": [
7     {
8       "style": {
9         "justify": "center",
10        "align": "center"
11      },
12      "template": "Hello World!"
13    }
14  ]
15 }
```

The preview window on the right shows the same "HELLO WORLD!" message, but it is rendered in a monospaced font. The interface elements (copy, share, template dropdown) are the same as in the previous screenshot.

When entering the VBML payload into a Sequence or Quick Action, enter the JSON as a single line string with no line breaks.

You can also start with one of the pre-made templates and modify the data in the VBML JSON to achieve the desired look, and then copy the JSON and enter it into the sequence action.

The screenshot displays the VBML editor interface. At the top left, it says "VBML The Vestaboard Markup Language". At the top right, there is a "Template:" dropdown menu with "complexMultipleComponents" selected, which is circled in yellow. The main area is split into two panels. The left panel shows a JSON code editor with the following content:

```
1 {
2   "components": [
3     {
4       "style": {
5         "justify": "left",
6         "align": "top",
7         "height": 1,
8         "width": 2
9       },
10      "template": "{67}{63}"
11    },
12    {
13      "style": {
14        "justify": "center",
15        "align": "top",
16        "height": 1,
17        "width": 18
18      },
19      "template": "Chewbacca"
20    },
21  ],
22  "style": {
23    "justify": "left",
```

The right panel shows the rendered output on a dark background. It features the text "CHEWBACCA" in a monospace font, flanked by two small red and blue squares. Below it, the text "A LEGENDARY WOOKIEE WARRIOR AND HAN SOLO'S LONGTIME CO-PILOT." is displayed in a similar font. At the bottom of the rendered area, there are two icons: a copy icon and a cursor icon.

## Notes

- Messages are rate limited to one message every 30 seconds. If a message is submitted within 30 seconds of the previous message it will be skipped.
- Duplicate messages will not be sent. If the same message is submitted more than once only the first instance will be sent to the board.
- Sending a VBML Message will stop any auto-send features running on other Managed Platform Drivers such as [Quote & Time](#) or [Calendar](#).

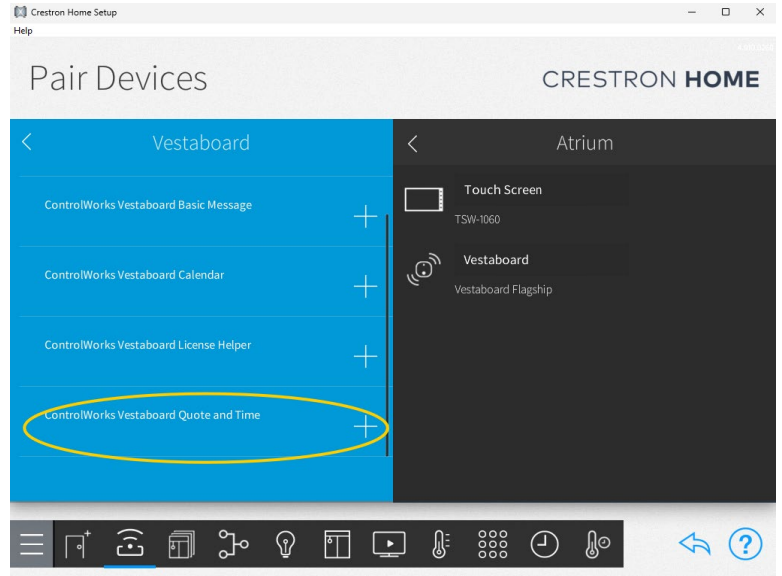
# Quote and Time Driver

The Quote and Time driver is a custom Managed Platform Driver developed by ControlWorks to demonstrate the possibilities of custom driver development for the Vestaboard. It displays a quote and author alongside the current time on the Vestaboard. Quotes can be selected from a predefined list configured during installation (and can be changed during runtime), or entered manually from the touch panel. If you have an idea for a custom Vestaboard driver or your client would like something custom, contact us at [support@controlworks.com](mailto:support@controlworks.com). Supported on Flagship model only.



## Adding the Quote and Time Driver

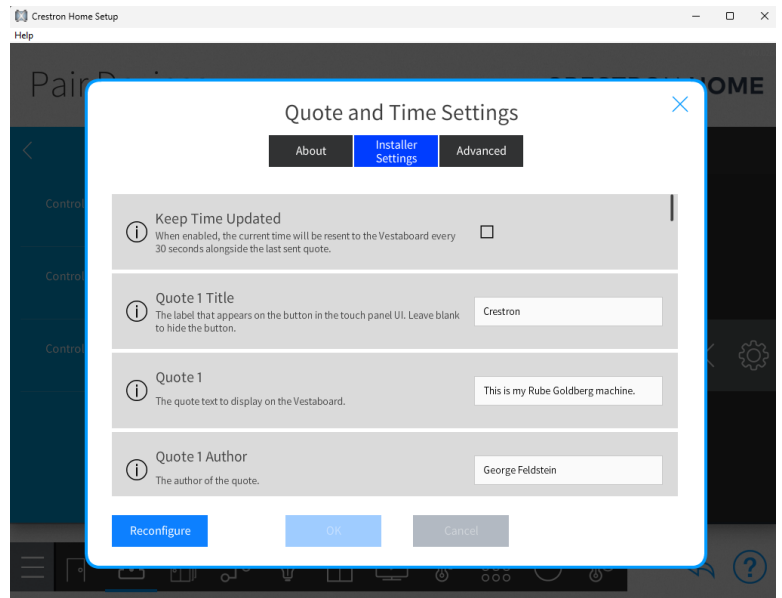
1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the driver folder with the name you used when setting up the driver.
4. Locate the ControlWorks Vestaboard Quote and Time and press the + button to add it to a room.



## Quote and Time Driver Configuration Items

Upon adding the Driver, Crestron Home will display installer settings where the Keep Time Updated default and up to 10 predefined quotes can be configured.

- **Keep Time Updated:** When enabled, the current time will be resent to the Vestaboard every 30 seconds alongside the last sent quote. This sets the default state on startup. The end user can also toggle this from the touch panel. Note: enabling Keep Time Updated will stop any auto-send features running on other Managed Platform Drivers such as the Calendar.
- **12-Hour Time Format:** When enabled, the time is displayed in 12-hour format (e.g. 1:30). When disabled, 24-hour format is used (e.g. 13:30).
- **Show AM/PM:** When enabled, AM or PM is appended to the time



display. Only applies when 12-Hour Time Format is enabled.

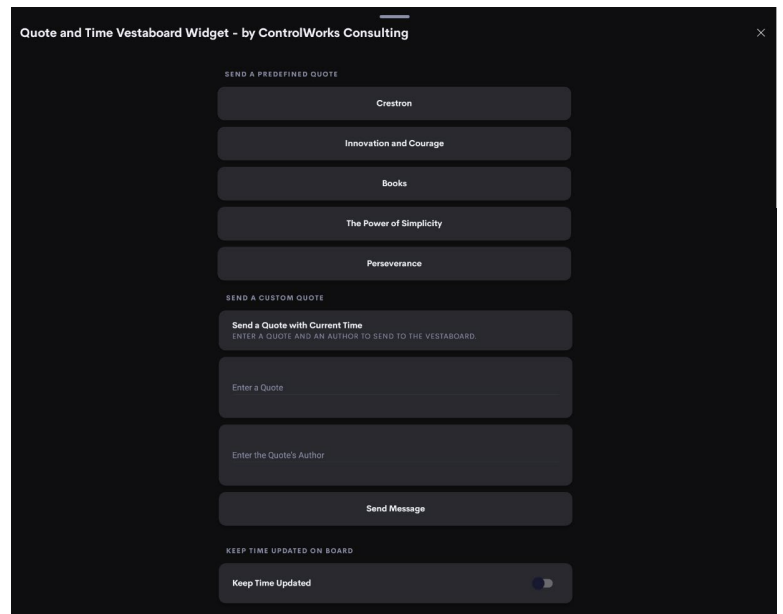
Each quote slot has the following fields:

- **Quote # Title:** The label that appears on the button in the touch panel UI. Leave blank to hide the button.
- **Quote #:** The quote text to display on the Vestaboard.
- **Quote # Author:** The author of the quote.
- **Quote # Enabled:** Enable this toggle to show the quote button on the touch panel. The button will only appear if Title, Quote, and Author are all populated and this toggle is enabled.

The driver includes five default quotes pre-populated in slots 1 through 5. Slots 6 through 10 are blank and disabled by default. Any slot can be modified at any time through the installer settings.

### Quote and Time Controls

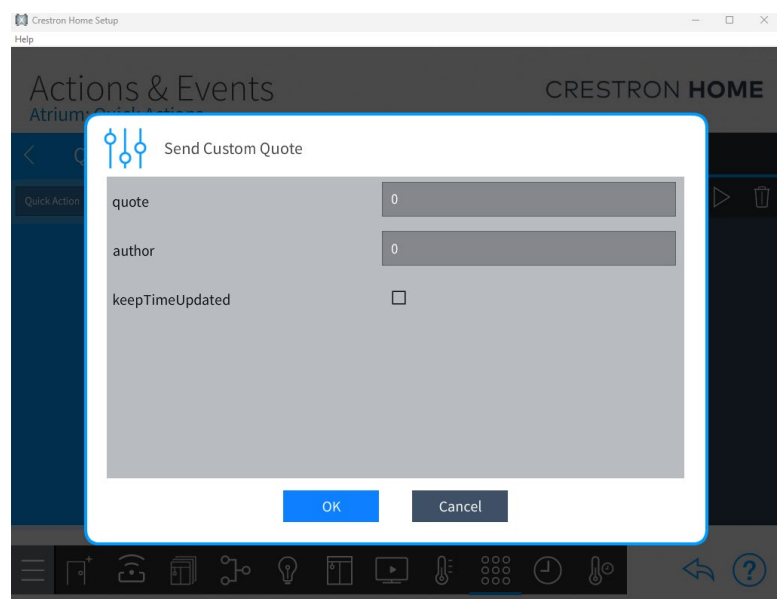
- **Send a Predefined Quote:** Displays up to 10 buttons, one per enabled quote slot. Each button is labeled with the quote title. Press a button to send that quote along with the current time to the Vestaboard.
- **Send a Custom Quote:** allows a quote and author to be entered manually from the touch panel and sent to the Vestaboard.
  - **Enter a Quote:** Text entry field for the quote text.
  - **Enter the Quote's Author:** Text entry field for the author's name.
  - **Send Message:** Press this button to send the custom quote and current time to the Vestaboard.
- **Keep Time Updated:** When enabled, the driver will send the current quote and time to the Vestaboard, keeping the time display current. Enabling this will disable any other auto-send features running on other Managed Platform Drivers such as Calendar



### Sequences and Quick Actions

The Quote and Time driver can also be triggered from a Sequence or Quick Action using the following programmable actions:

**Send Custom Quote:** Sends a custom quote and author to the Vestaboard with the current time. Parameters:

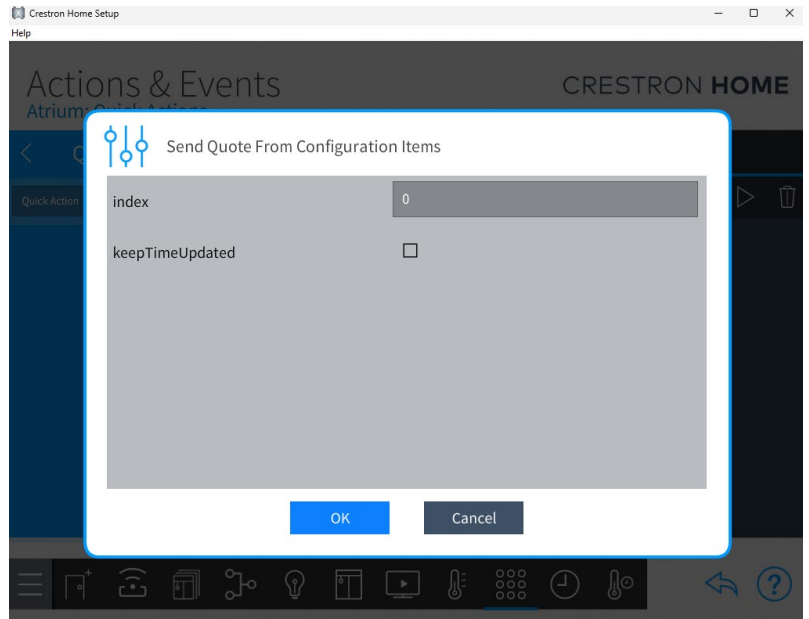


- **quote:** The quote text to display.
- **author:** The author of the quote.
- **keepTimeUpdated:** Check this box to keep the time updated on the Vestaboard.

### Send Quote From Configuration

**Items:** Sends a quote from the predefined list configured in the installer settings by index number.

- **index:** The quote number to send (1-10).
- **keepTimeUpdated:** Check this box to keep the time updated on the board every 30 seconds.



### Notes

- Messages are rate limited to one message every 30 seconds. If a message is submitted within 30 seconds of the previous message it will be skipped.
- Duplicate messages will not be sent. If the same message is submitted more than once only the first instance will be sent to the board.
- Sending a Quote and Time message will stop any auto-send features running on other Managed Platform Drivers such as Calendar.

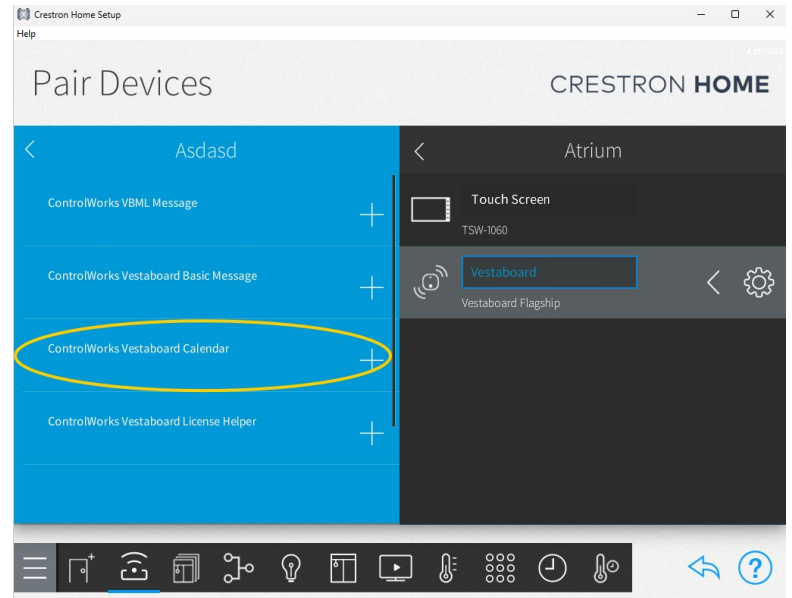
# Calendar Driver

The Calendar driver is a custom Managed Platform Driver developed by ControlWorks to demonstrate the possibilities of custom driver development for the Vestaboard. It displays a monthly calendar with color-coded days alongside a configurable monthly message. The calendar automatically updates each day at 12:01 AM when auto-send is enabled. If you have an idea for a custom Vestaboard driver or your client would like something custom, contact us at [support@controlworks.com](mailto:support@controlworks.com). Supported on Flagship model only.



## Adding the Calendar Driver

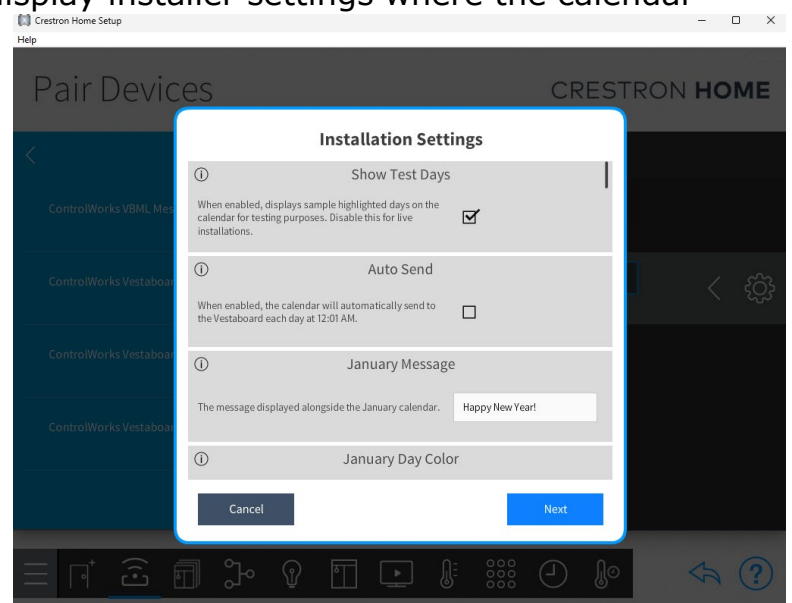
1. In the Crestron Home Setup tool, navigate to Pair Devices.
2. Select Managed Platforms.
3. Select the driver folder with the name you used when setting up the driver.
4. Locate the ControlWorks Vestaboard Calendar and press the + button to add it to a room.



## Calendar Driver Configuration Items

Upon adding the Driver, Crestron Home will display installer settings where the calendar behavior and monthly data can be configured.

- **Show Test Days:** When enabled, displays sample highlighted days on the calendar for testing purposes. Disable this for live installations.
- **Auto Send:** When enabled, the calendar will automatically send to the Vestaboard each day at 12:01 AM. This sets the default state on startup. The end user can also toggle this from the touch panel. Note: enabling Auto Send will stop any auto-send features running on other Managed Platform Drivers such as Quote and Time.



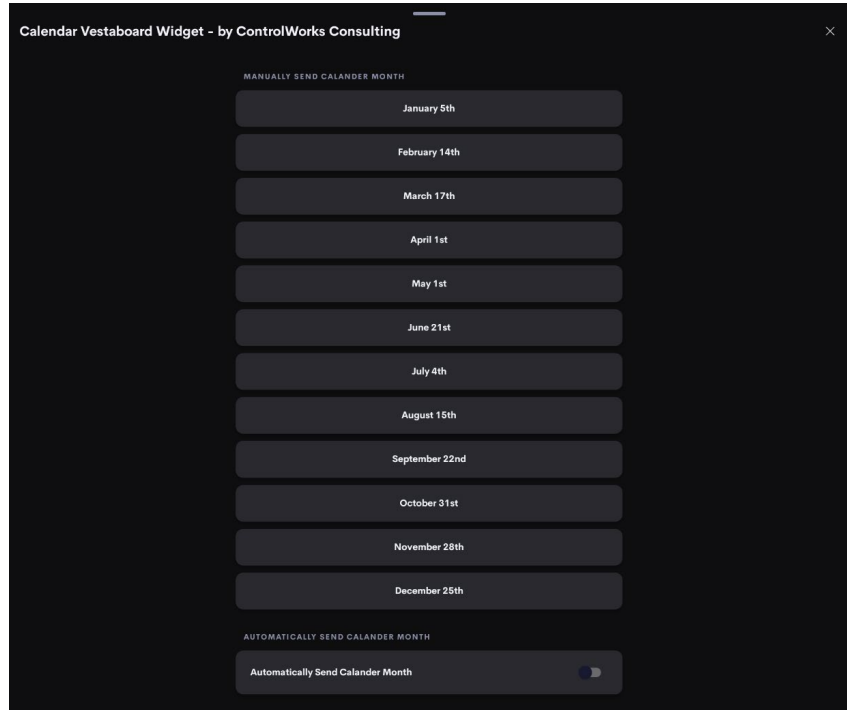
Each month has the following fields. Color codes are: 63=Red, 64=Orange, 65=Yellow, 66=Green, 67=Blue, 68=Violet, 71=Filled.

- **[Month] Message:** The text displayed alongside the calendar for that month.
- **[Month] Day Color:** The color code applied to all days in the month.
- **[Month] Today Color:** The color code applied to today's date.

Default messages and colors are pre-configured for all 12 months and can be modified at any time through the installer settings.

## Calendar Controls

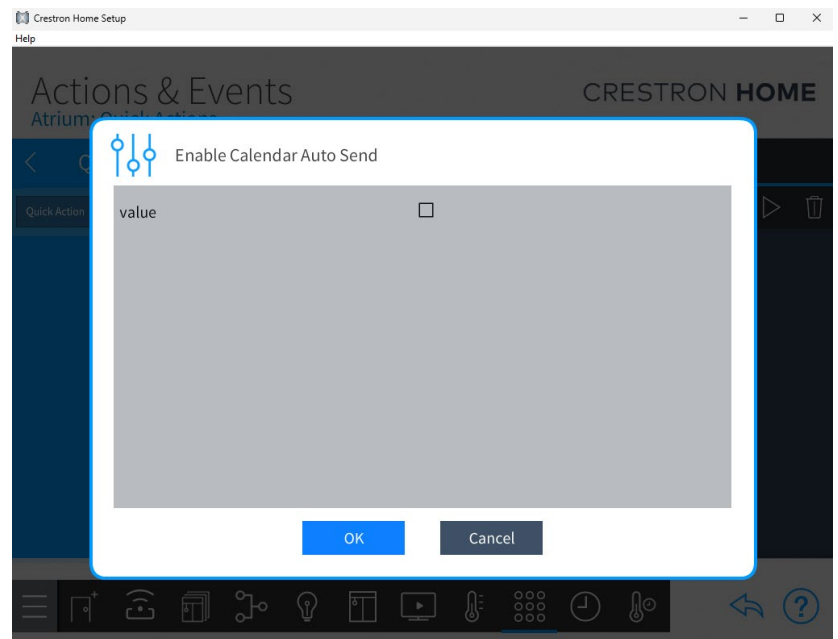
- **Auto Send:** When enabled, the driver will automatically send the current month's calendar to the Vestaboard each day. Enabling this will disable any other auto-send features running on other Managed Platform Drivers such as Quote and Time.
- **Send [Month] Button:** Sends the calendar for the selected month to the Vestaboard manually to test with.



## Sequences and Quick Actions

The Calendar driver can also be triggered from a Sequence or Quick Action using the following programmable action:

- **Enable Calendar Auto Send:** Enables or disables the calendar auto-send feature. Parameters:
  - **Enable:** Check this box to enable auto-send.



## Notes

- Messages are rate limited to one message every 30 seconds. If a message is submitted within 30 seconds of the previous message it will be skipped.
- Duplicate messages will not be sent. If the same message is submitted more than once only the first instance will be sent to the board.
- Sending a calendar message will stop any auto-send features running on other Managed Platform Drivers such as Quote and Time.

## Support

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This driver is supported by ControlWorks Consulting, LLC. For support, you can contact us during our normal office hours, 9 AM to 5 PM US Eastern Time, Monday through Friday, excluding holidays, using one of the methods listed below.

Telephone:

- (+1) 440-449-1100
- (+1) 508-695-0188
- (+1) 202-381-9070
- (+44) 020 4520 4600

Web: <https://www.controlworks.com/contact-us/>

Email: [support@controlworks.com](mailto:support@controlworks.com)

Online Chat: <https://controlworks.com>

Before calling for support, please ensure that you have the Driver loaded into the Crestron Home system, and have reviewed the error log.

Updates, when available, are automatically distributed via email notification to the address entered when the Driver was purchased. In addition, updates may be obtained using your username and password at <https://store.controlworks.com/account/login.aspx>.

## Distribution Package Contents

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The distribution package for this module should include:

Distribution Contents	
ControlWorks_Platform_Vestaboard_Cloud.pkg	Crestron Home Driver
ControlWorks_Platform_Vestaboard_Cloud_V1.0.0_Help_(ControlWorks).pdf	This Help file

## Revision History

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V1.0.0 [caleb@controlworks.com](mailto:caleb@controlworks.com) 2026.05.06

- Initial Release

## Development Environment

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This Driver version was developed on the following hardware and software. Different versions of hardware or software may or may not operate properly. If you have questions, please contact us.

<b>Testing Environment</b>	
<b>Manufacturer Hardware</b>	<b>Software Version</b>
Vestaboard Flagship	4.1.0
<b>Crestron Hardware</b>	<b>Firmware Version</b>
CP4-R V2 Processor	FW: 2.8000.00057 OS: 4.010.0260
SDK Version	25.0.33.0
TSW-1070	v1.002.0040.001
TSW-1060	v3.000.0014

# ControlWorks Consulting, LLC License Agreement

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## Provision of Support

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