



Control Programming LLC

Release Notes

Extension – Irrigation System – Rachio - Cloud
version 2.00.006

Extension

This release note is for the Crestron Home extension that interfaces with the Rachio Gen 2/3 irrigation system controller which can be found at <https://rachio.com/>. Both the 8 zone and 16 zone controllers can be controlled by this extension.

Notes and Recommendations

Drivers->Irrigation System->Rachio->Rachio Gen 3

The end user will need:

- 1) Establish an account on Rachio.com.
- 2) Download the Rachio mobile app.
- 3) Add all the necessary data for the Rachio controller.
- 4) Add the Rachio controller to the local Wi-Fi system.
- 5) Add the necessary port forwarding to their firewall to receive “webhook” status updates from the cloud.
- 6) This extension requires that the License Manager (<https://cpllc.net/product/license-manager/>) also be installed on the processor

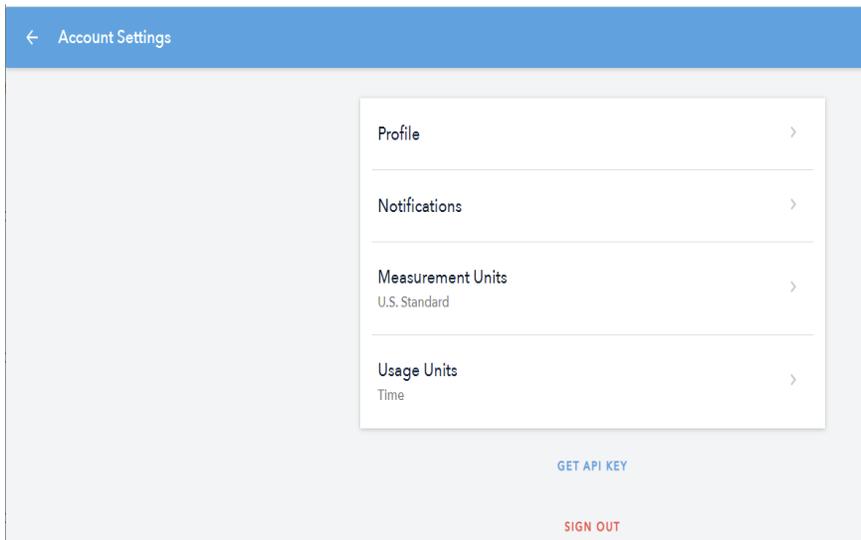
The above is documented elsewhere and is not the focus of this document.

System Requirements and Dependencies

Provide any minimum versions of applications required to run your driver.

- Crestron Home v3.004
- Rachio account

Installation/Upgrade Instructions



Obtain API Key

After the user account is established within Rachio.com the device's API key will need to be obtained.

Clicking on GET API KEY will popup a copiable API KEY.



Obtain the Serial Number

The controller's serial number is located on the right hand side underneath the white cover.

<p>Obtain License Key</p> <p><i>i</i> Clicking the link, on the right, takes you to CPLLC.net where license keys can be obtained. A purchased license key is required to be entered i... CPLLC.net</p>	
<p>Show in Home Screen</p> <p><i>i</i> Checked to show on Home screen</p>	<input type="checkbox"/>
<p>Show on Room Screen</p> <p><i>i</i> Checked to show in Room screen</p>	<input checked="" type="checkbox"/>
<p>API Key</p> <p><i>i</i> API Key provided by Rachio for third party control. The API key can found after logging into Rachio.com, selecting the device, select...</p>	<input type="text"/>
<p>Controller Serial Number</p> <p><i>i</i> Rachio Controllers Serial Number which can be found on the right side of the faceplate after removing the white cover.</p>	<input type="text"/>
<p>Webhooks HTTP Address</p> <p><i>i</i> Webhook HTTP Address where to send status updates. Typically this is the address of the site's firewall.</p>	<input type="text"/>
<p>Webhooks HTTP Port</p> <p><i>i</i> Webhook HTTP Port listening on. This will be the port number that is forwarded from the firewall to the Crestron home processor.</p>	<input type="text" value="9980"/>

Obtain License Key – clicking on the “CPLLC.net” link will take you to the website to purchase the necessary license. The obtained license key will need to be entered in the license manager on the appropriate SKU.

Show on Home Page – check if extension is to be visible on the home page.

Show in Room Page – checked if extension is visible in the room page

API Key – Rachio.com account API Key and can found as described above.

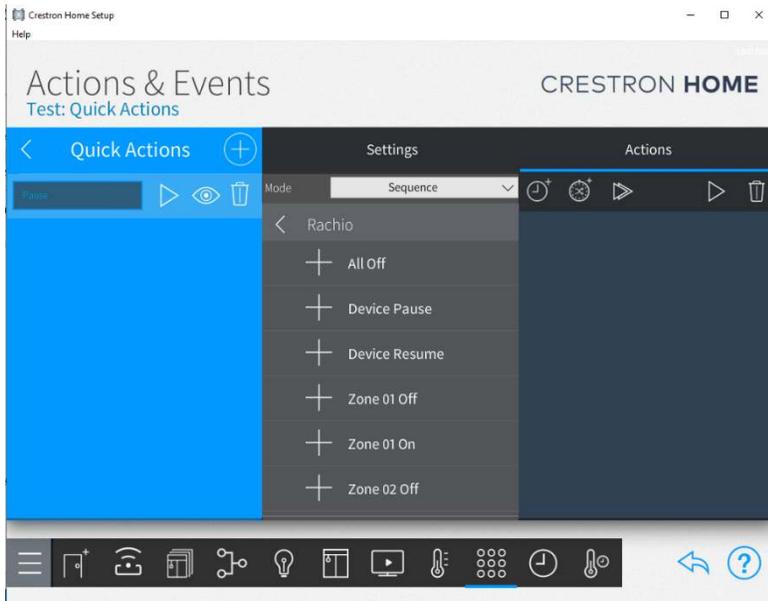
Controller Serial Number – controllers serial number and can be found as described above.

Webhooks HTTP Address – the IP address or Domain Name without the leading “http(s://”. This is the address the cloud will send status updates. Typically this will be the IP address or domain name of the installation’s firewall.

Webhooks HTTP Port – port number the cloud is sending status updates. This port will be forwarded to the Crestron Home processor.

Programmer Options

Actions



All Off – turns off all zones.

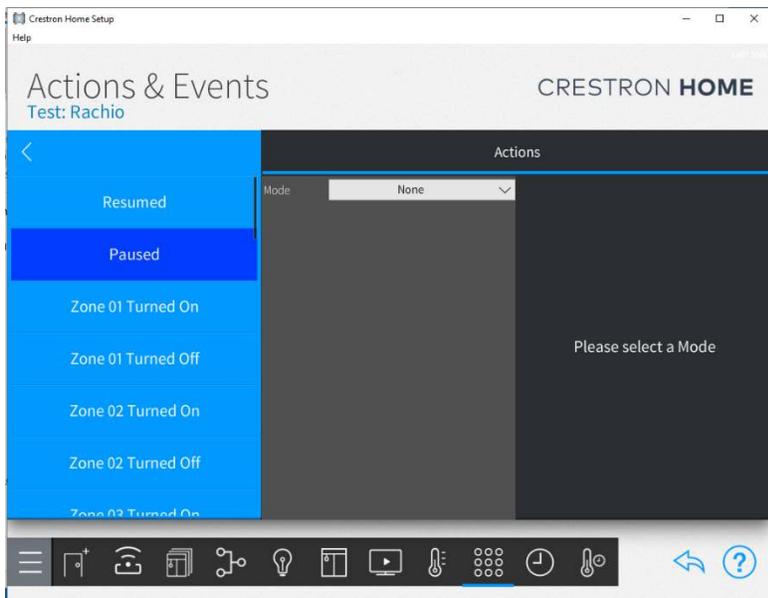
Device Pause – pauses the device so that all schedules are ignored.

Device Resume – resumes normal processing of water schedules.

Zone (01-16) Off – turns on the requested zone. Unfortunately, the API does not allow a single zone to be turned off, so all zones are turned off.

Zone (01-16) On – turns on the requested zone. If selected, you will be prompted for the number of seconds the zone should be watering.

Events



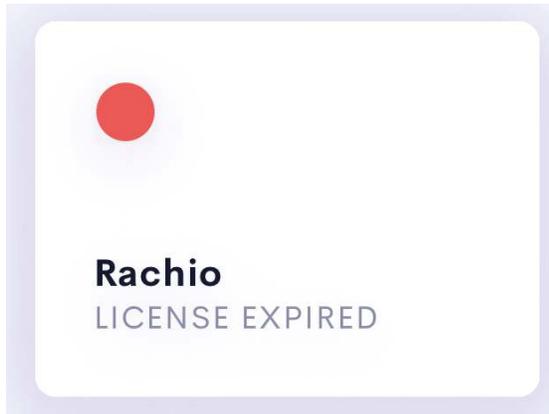
Resumed – the controller's normal processing has been resumed.

Paused – the controller's normal processing has been paused.

Zone (01-16) Turned On – the corresponding zone has been turned on.

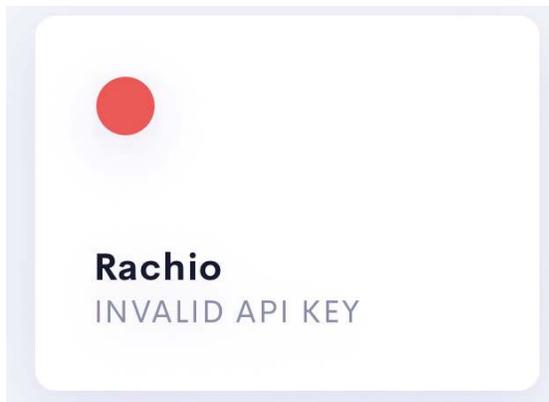
Zone (01-16) Turned Off – the corresponding zone has been turned off.

End-User Experience

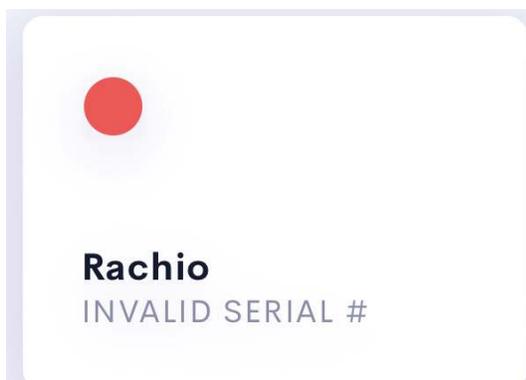


Error Feedback

After 2 hours, without the proper license key having been installed, a license expired notice will be displayed.

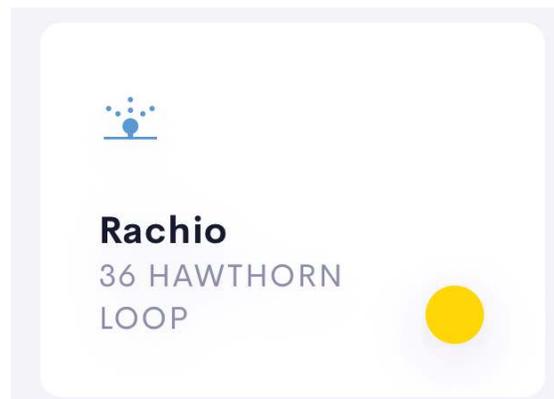
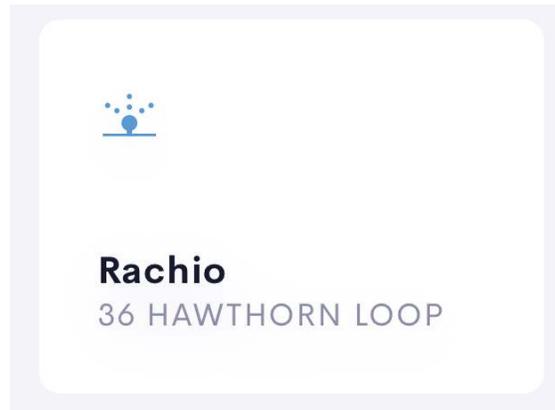
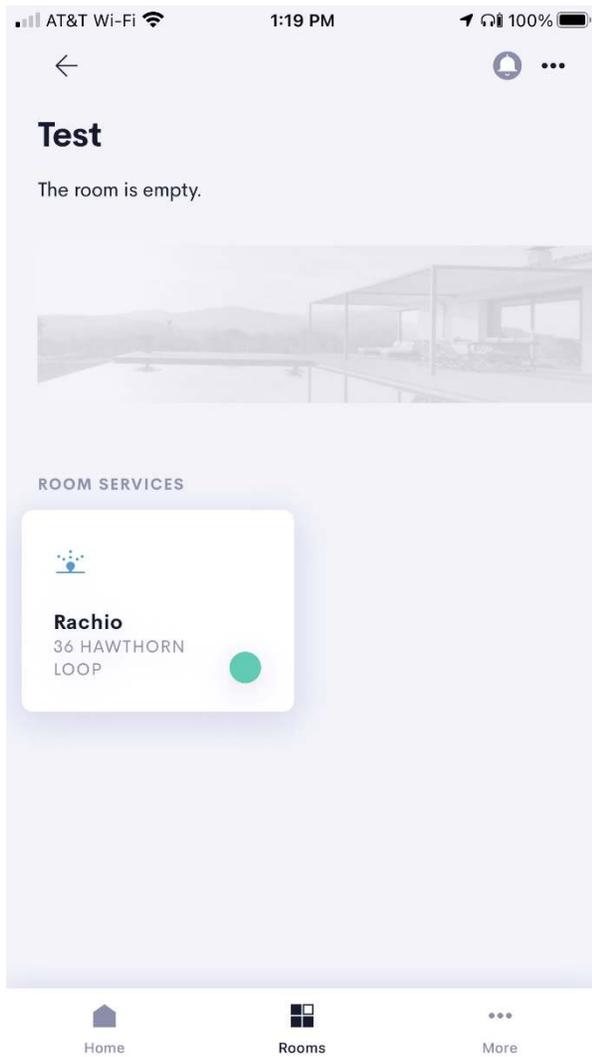


Should an incorrect API key be entered, the error message to the left will be displayed.



Should an incorrect controller serial number be entered, the error message to the left will be displayed.

Room Tile Operational Feedback



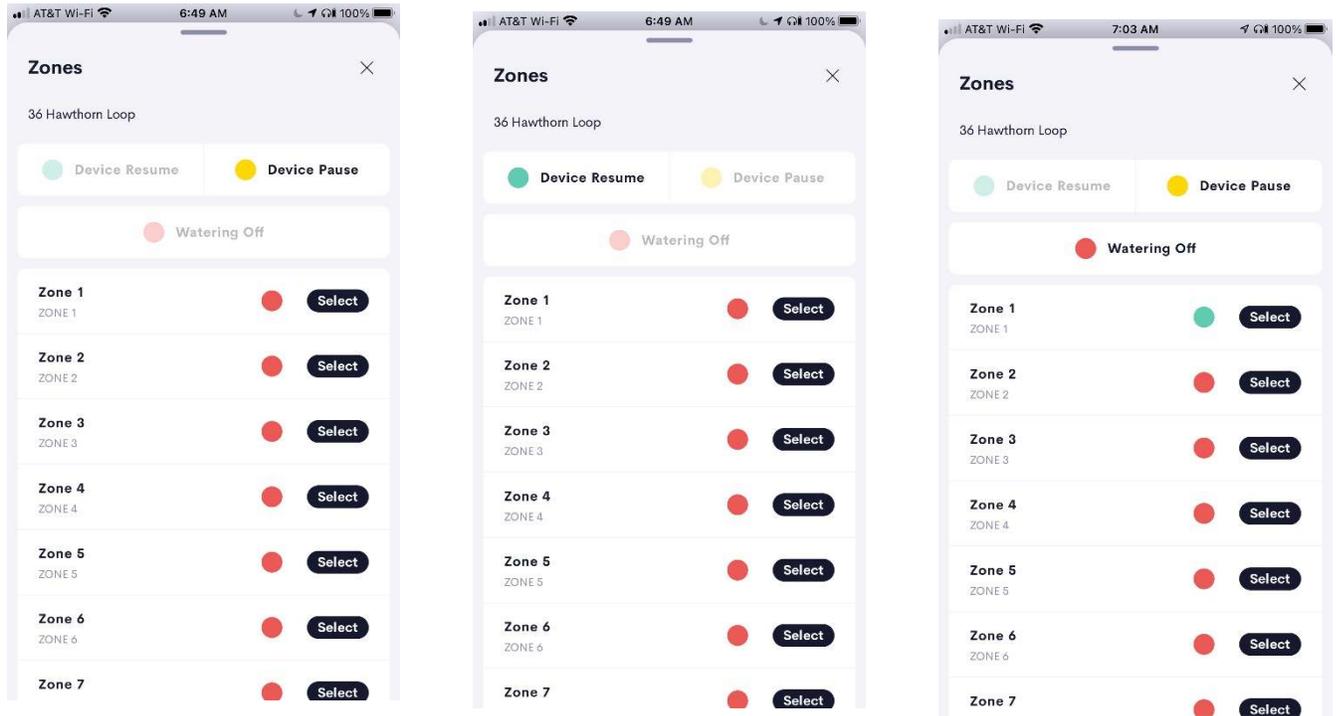
The above screen shows the room feedback.

A green dot in the lower right-hand corner indicates there is a zone spraying water.

No dot indicates there is no zone spraying any water.

A yellow dot indicates the controllers has been paused and any existing watering schedules have been suspended.

Device Feedback



After touching the room tile, the above screen will be displayed depending on device status and whether a zone is spraying water.

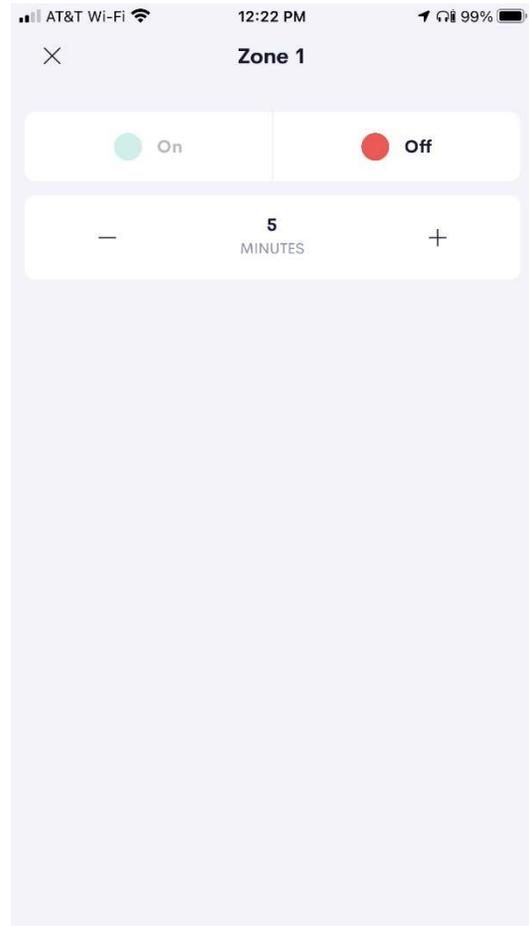
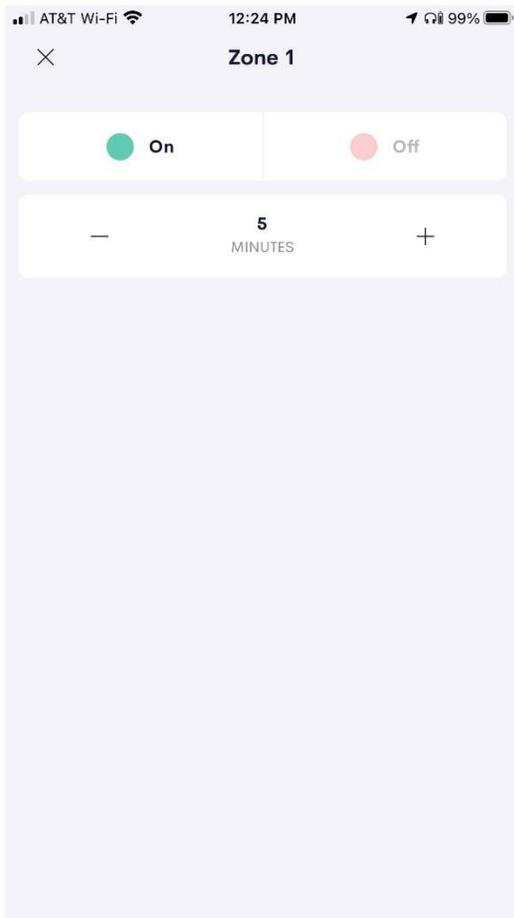
The left screen shows the controller has not been paused and no zone is currently spraying water.

The middle screen shows the first zone is spraying water denoted by the green dot.

The right screen shows that the controller has been paused.

Touching the "Select" button bring up the individual zone control as shown on the next page.

Individual zone control



Pressing the ON button starts the zone spraying water. The zone will stay on for the specified number of minutes.

Press the OFF button turns the zone off, as well as all other zones. For some reason, the Rachio api does not provide a mechanism to turn off a single zone.

Limitations/Known Issues

No known issues

Supported Features

Not applicable

Test Environment

List the environments where this driver has been tested and any control system firmware versions used.

- Crestron Home v3.004
- CP4-R
- MC4-R

Supported Models

- CP4-R
- MC4-R

Contact Information

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- License: <https://cpllc.net/?product=rachio-gen-3>

Version History

2023-04-04 2.00.006

- Added required CCD SDK JSON fields

2022-08-18 2.00.002

- Bug fix

2022-07-28 2.00.001

- Converted to standard CPLLC libraries

2022-04-24 1.00.003

- Converted to standard CPLLC libraries

2021-09-19 1.00.002

- Added handlers for mobile app changes to the zone name and device name. Now when changed it will be reflected in the extension

2021-05-23 1.00.001

- Initial Release

Licensing and Copyright Information

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