

# Smart Outdoors with Rachio

The **Smart Outdoors with Rachio** driver suite enables seamless Control4 integration with **Rachio Irrigation Controllers**, **Smart Hose Timers**, and **Lighting Controllers**. It includes three drivers:

- **Smart Outdoors with Rachio:** The main proxy driver for the Rachio API connection.
- **Smart Watering Valve:** Represents individual sprinkler zones or Smart Hose Timers.
- **Smart Outdoor Light:** Represents individual lighting controller zones.

## Installation and Updating

### Installation Steps

1. Unzip the driver package.
2. In Composer Pro:
  - Go to **Driver > Add or Update Driver or Agent**.
  - Add `smart_outdoors_with_rachio.c4z` , `smart_watering_valve.c4z` , and `smart_outdoor_light.c4z` .
  - **All three drivers must be added before proceeding.**

### Existing users

#### Director Restart

Version **20260512** update requires a director restart. Composer will prompt you to restart after adding the updated files. But if the update occurs through Driver Central's automatic update mechanism, a manual director restart is required to activate the updated driver features.

#### Add new driver file

**Smart Outdoor Light** is a new component of this driver suite. Make sure to add the new `smart_outdoor_light.c4z` before running **Add Devices** or lighting zones will fail to create.

#### Filename changes

As of version **20260512**, driver filenames have changed. Users who began using this driver before this version are likely using legacy filenames. Current driver downloads from Driver Central only include the new filenames. Legacy files will continue to receive automatic updates via Driver Central.

Current Filename	Legacy Filename
<code>smart_outdoors_with_rachio.c4z</code>	<code>smart_watering_with_rachio.c4z</code> , <code>rachio_smart_watering.c4z</code>
<code>smart_watering_valve.c4z</code>	<code>rachio_smart_hose_timer.c4z</code>

## Configuration

### Prerequisites

1. Ensure the user has a Rachio account: <https://app.rach.io>.
2. Rachio devices must be set up in the Rachio account.
3. Obtain the **Rachio API Key**:
  - In Web: Account Settings > **GET API KEY**
  - In App: Tap Profile Icon > **API Key Copy**
  - Guide: [Rachio API Docs](#)

### Initial Setup

1. In **System Design**, add **Smart Outdoors with Rachio** to the project.
2. Select the driver in the project. In the **Properties** tab:
  - Paste the API key into `API Key` and click **Set**.
  - Confirm `API Status` and `User ID` populate correctly.

### Adding Devices

#### Automatic

1. In the **Actions** tab, choose **Add Devices** and click **Set**.

- Creates a valve or light device for each Rachio device and automatically binds the connections.
- Devices appear in the current room. Move them elsewhere in the project, if desired. For example, to an 'Exterior' or 'Outside' room.
- Re-run **Add Devices** to include newly added zones or devices.

### Manual (Optional)

1. In **Actions**, run **Create Bindings**.
2. Add a **Smart Watering Valve** or **Smart Outdoor Light** driver to the project depending on the Rachio devices present in the customer's account.
3. Link connection bindings from the main driver through the **Connections** tab.

### Configure Valve Drivers (optional)

For each 'Smart Watering Valve' device that was created, you can optionally set a few configuration options.

1. Icon Set: The icons to use in navigator. Options consist of 'Hose' for Smart Hose Timer, 'Grass' and 'Flowers'.
2. Timer Values: Specify the watering durations available through the Navigator UI. Example: If set to 5,10,15,30,60, tapping the Navigator button once sets a 5-minute timer, twice sets 10 minutes, and so on. Valid values are displayed beneath the property in Composer.
3. On Default Time: This value is used when activating the valve through a keypad button (using the On control output). Default is 10 minutes.

### Configure Light Drivers (optional)

For each 'Smart Outdoor Light' device that was created, you can optionally set a few configuration options.

1. **Button and Button Connection Status LED Colors** - Change the On and Off LED button colors for On, Off, and Toggle.

## Smart Watering Valve Features

Each sprinkler zone or hose timer in Rachio is connected to a **Smart Watering Valve** device. This provides:

- An experience button in Navigator for runtime visibility and control
- Support for physical keypad connections
- Various variables, events, commands, and conditionals to facilitate programming

### Keypad Button Support

Button link control outputs are available on each valve.

- **Toggle** – Toggles valve state
- **On** – Turns valve on for `On Default Time`
- **Off** – Immediately stops watering

1. In **Connections**, find the sprinkler zone or hose timer device.
2. Make connections from each control output to a keypad button, pico remote, or other device of choice.

### Experience button

To show a valve experience button in Navigator:







1. In **System Design**, select the room. In the **Navigator** tab, click **Modify** under Comfort.
2. Move the valve device from **Hidden Devices** to **Shown Devices**.
3. Click **OK**.
4. Refresh Navigator in the File menu.

### Button Behavior

- **First tap**: Starts watering with the first `Timer Value` as the duration.
- **Next tap (within 5 sec)**: Cycles through timer values.
- **After 5 sec**: Next tap turns water off.
- Timer display can be customized in each valve driver's properties from the following options: `1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 45, 60, 90, 120`
- For sprinkler zones only, if the run is paused, the icon will display a pause symbol. Tapping once will resume.

### Icon Set

Icon set can be changed in the valve Driver Properties. By default, hose timers will be set to the hose icon set while sprinklers will be set to grass.

Icon Set	Off Example	On (10 min) Example
Hose		
Grass		
Flowers		

## Smart Outdoor Light Features

Each lighting zone is connected to a **Smart Outdoor Light** device. This provides:

- A light device in navigator to turn the light on and off, and to set brightness if the zone is configured for dimming
- Support for physical keypad connections
- Advanced Lighting Scene support so lighting zones can be controlled alongside other lighting devices in the project.
- Various variables, events, commands, and conditionals to facilitate programming

## Keypad Button Support

Button link control outputs are available on each light.

- **Toggle** – Toggles light state
- **On** – Turns light on
- **Off** – Turns light off

1. In **Connections**, find the light device.
2. Make connections from each control output to a keypad button, pico remote, or other device of choice.

## Driver Properties

### Smart Outdoors with Rachio

PropertiesDocumentationLua

Cloud Status

License Activated

Automatic Updates

Off

Driver Version

20260512

Configuration

Actions

– Choose Action –

Log Level

Off

API Key

9d5af7d3-954b-48a3-b0b4-930c1205776a

Auto Update Device Metadata

On

Information

API Status

Last API request was successful

Websocket Status

Connected

User ID

a90d13da-3020-490d-af20-d328483120fe

Hub Status

Click to show hub status

Hub Status Last Updated

May 12, 2026 17:00:02

Main API Limit

3483 requests remaining

Cloud REST API Limit

3480 requests remaining

### Smart Watering Valve

PropertiesPropertiesSummary

Advanced Properties

PropertiesDocumentationLua

Cloud Status

License Activated

Automatic Updates

Off

Driver Version

104500

Status

Timer values successfully updated

Configuration

Icon Set

Grass

Log Level

Off

Timer Values

5,10,15,30,60

Valid values include 1,2,3,4,5,6,7,8,9,10,15,20,25,30,45,60,90,120

On Default Time

10

## Smart Outdoor Light

Properties

Button and Button Connection Status LED Colors

Top (Ramp Up)

On Color

Off Color

Advanced Properties

PropertiesDocumentationLua

Cloud Status

License Activated

Automatic Updates

Off

Driver Version

20260512

Configuration

Log Level

Off

Information

Status

Online

Dimmer

False

## Composer Pro Programming

See **Programming Reference** below for a comprehensive list of events, commands, variables and conditionals that can be used with programming. The following are a few real-world programming examples. These examples use components from both Smart Watering Valves and this main driver.

### Example: Notify if batteries are low, device disconnects, or firmware upgrade is available

There are a number of events generated by both the main **Smart Outdoors with Rachio** driver and the **Smart Watering Valve** driver (See **Events** below). These events can be used to generate push notifications. However, to take advantage of these events you will need to configure a schedule to update statuses.

- Go to **Agents > Scheduler** and either find an existing schedule or create a new one. The interval depends on how quickly your customer wants to be notified of changing statuses. If a battery is low, or a device goes offline do they want to know within an hour or one day? Keep in mind Rachio limits API requests per day so don't schedule updates too often.
- Go to **Programming > Scheduler** and select the schedule you want to use to trigger updates.
- In the **Device Actions** pane, select the **Smart Outdoors with Rachio** main device driver.
- In the **Device Specific Commands** dropdown, choose and drag both **Check Hub Status** and **Check Valve Statures** to **Script Actions**. This will ensure events are fired based on changing device statuses.

Script

Script

When scheduled event 'Evening' executes

Programming Controls

Else

& And

| Or

➡ Break

➡ Stop

# Comment

Script Actions

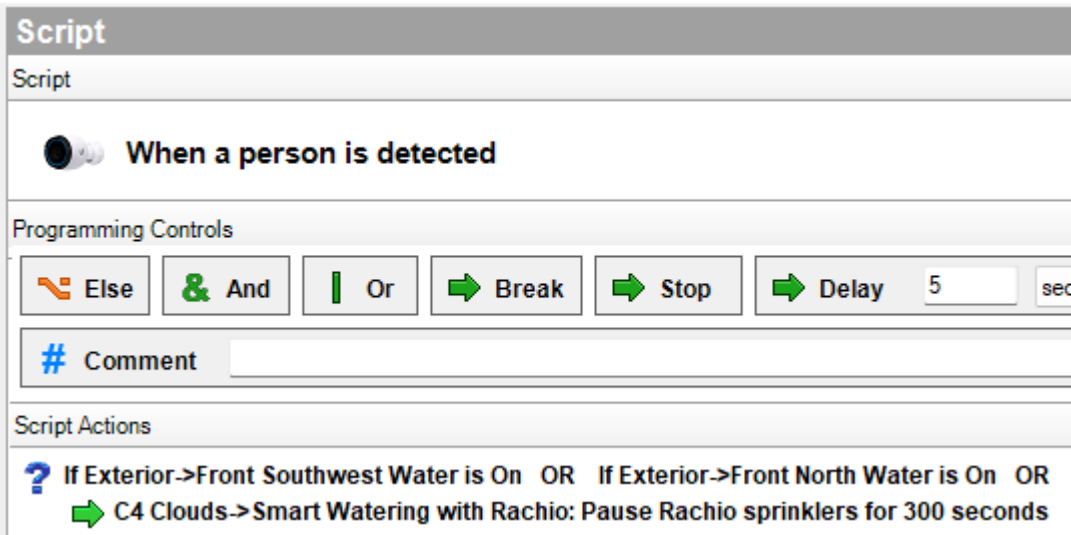
➡ Check if hubs are online or offline

➡ Check statuses for all Rachio valve devices

### Example: Pause Sprinklers on Motion Detection

If a vehicle or person is detected, and certain sprinkler zones are running, pause the sprinklers so visitors don't get sprayed.

- In **Programming**, on the left side, select a camera or device capable of the detection event you want to trigger pausing sprinklers.
- In the **Device Actions** pane on the right, find the sprinkler zones that should be paused if they are running when the event occurs.
- Click the **Conditionals** tab, select **The Water is On** and drag the conditional to the **Script Actions** middle pane.
- Repeat steps 2 and 3 for any additional zones, forming an 'OR' conditional with all zones that should be paused if watering.
- Find the main **Smart Outdoors with Rachio** driver in the **Device Actions** pane.
- In the **Commands** tab, select **Device Specific Command**.
- Choose **Pause Sprinklers** from the dropdown. Select the appropriate irrigation controller and set a pause duration. Drag the action to the center pane, ensuring it's nested below the conditional.



## Programming Reference

### Events

#### Smart Outdoors with Rachio:

- Rachio Hub goes offline / online
- `MAIN_API_REQUESTS_REMAINING` or `SMART_HOSE_API_REQUESTS_REMAINING` changes

#### Smart Watering Valve:

- Watering starts / stops
- Watering paused / resumed (sprinkler zones only)
- Battery is good / low (smart hose timer only)
- Comes online / goes offline (smart hose timer only)
- Firmware upgrade is available (smart hose timer only)
- Variable `IS_WATERING` or `TIME_REMAINING` changes

#### Smart Outdoor Light

- Turned On
- Turned Off
- Brightness begins to ramp
- Brightness changed

### Commands

#### Smart Outdoors with Rachio:

- Check Hub Status
- Check Valve Statuses
- Pause / Resume Sprinklers

#### Smart Watering Valve:

- Start Watering (with duration)
- Stop Watering

#### Smart Outdoor Light:

- Light On, Off, Toggle
- LED Commands (Set LED colors)
- Button Commands (Press, Release, Click, etc.)

### Variables

#### Smart Outdoors with Rachio:

Variable	Description
MAIN_API_REQUESTS_REMAINING	Remaining daily API calls
CLOUD_REST_API_REQUESTS_REMAINING	Remaining Cloud REST API calls
SMART_HOSE_API_REQUESTS_REMAINING (deprecated)	Remaining Cloud REST API calls. Replaced by <code>CLOUD_REST_API_REQUESTS_REMAINING</code>

#### Smart Watering Valve:



Variable	Description	Type
IS_WATERING	<code>1</code> (true) if running or <code>0</code> (false)	Both
TIME_REMAINING	Minutes left	Both
IS_PAUSED	<code>1</code> (true) if paused or <code>0</code> (false); When <code>1</code> (true), <code>IS_WATERING</code> will also still be <code>1</code> (true)	Sprinkler Zone
BATTERY_STATUS	'GOOD' or 'LOW'	Smart Hose Timer
FIRMWARE_UPGRADE_AVAILABLE	<code>1</code> (true) or <code>0</code> (false)	Smart Hose Timer
IS_CONNECTED	<code>1</code> (true) or <code>0</code> (false)	Smart Hose Timer
LAST_SEEN	<code>UNKNOWN</code> if never checked or timestamp ( <code>2025-04-08T12:58:39.405340Z</code> )	Smart Hose Timer

Smart Outdoor Light:

Variable	Description
LIGHT_STATE	Brightness on at any level
Brightness Percent	Current light level (0-100%)

Conditionals

Smart Outdoors with Rachio:

- If any of the variables are equal to/not equal to/greater than/less than depending on the variable type

Smart Watering Valve:

- If "The Water is On"
- If any of the variables are equal to/not equal to/greater than/less than depending on the variable type

Smart Outdoor Light:

- Light is On/Off
- Button Tests (Is Pressed/Released, LED Color)

Support

For issues or feature requests:

- [Create a Support Ticket](#) with Driver Central. Driver Central will escalate to **Blessing Innovations LLC** when necessary.
- Submit feature requests in GitLab: [Submit an Issue](#)