



Generic Fan Speed Controller (IR)

Installation and Usage Guide

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Authors: Alan Chow

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Overview

Control4 allows for you to easily integrate infra red based audio/visual devices but it does not give you the ability to integrate infra red based motorised devices.

This is where the Chowmain generic fan speed controller driver comes in. This driver allows you to enter in infra red HEX codes into the driver to integrate your infra red based multi speed fan. This provides a cheap solution to integrating multi speed fans which are widely available in most countries around the world.

Features

- Multiple Modes
 - Off
 - Low
 - Medium
 - Medium High
 - High
- Definable Hex IR codes in properties
 - Easy to manage
 - Can have multiple copies of the same driver with different IR codes
 - Definable IR repeat counts.
- Optional On code can be sent before any speed change to ensure the fan is on (not required by most IR fans)
- IR Binding
 - You can bind it to any infra red output in your Control4 system.
- Definable Preset Level
 - Can be configured to Low, Medium, Medium High or High. This is used for when a toggle or on command is issued (usually by the Control4 SR-250).

Change Log

Version #20141118- 18-NOV-2014

- Converted from C4I to C4Z filetype

Version #20140430 - 30-APR-2014

- Initial Driver Release

Important Notice

This driver has been developed for Control4 OS version 2.5.3. This utilises a new Control4 proxy which was recently introduced. As such It will not work for older versions of OS.

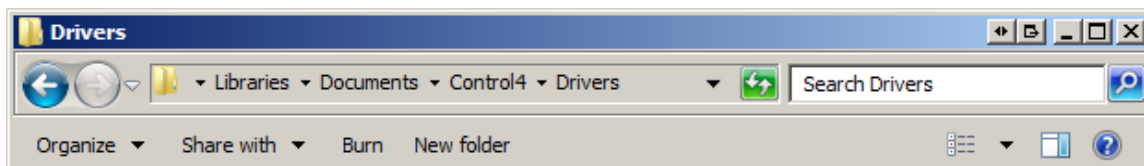
At the time of release this driver is effected by a defect (#48991) which effects the Control4 MyHome iphone/ipod touch. This defect causes any iphone/ipod touch with a fan proxy on it to crash if you try to bring up the device under the lighting page. This defect does not effect any other device and has been tested on iPad, Android, MyHome, Onscreen and 7" touchscreens.

Driver Installation

1. The driver you have downloaded will be in a zip file. Double click on this file to open it in your preferred zip program (WinZip, WinRar, etc.).



2. Extract the c4i file to the My Documents\Control4\Drivers directory. If you are using Windows 7 or 8 this will be extracted to the Libraries\Documents\Control4\Drivers directory.

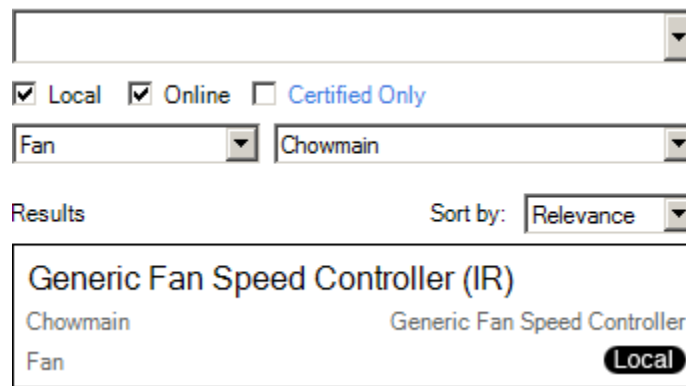


3. You are now ready to add and configure the driver via the Composer Pro software.

Adding the driver to your project

IMPORTANT – Before undertaking the installation of the driver please follow the licencing steps outlined at the end of this document.

1. Launch the Composer Pro application and connect to your project
2. In the **'System Design'** page select the **'Search'** tab on the right hand side.
3. Select **'Fan'** as the device type and **'Chowmain'** as the manufacturer.



The screenshot shows a search interface with a top search bar. Below it are three checkboxes: ☒ Local, ☒ Online, and ☐ Certified Only. Underneath are two dropdown menus: the first is set to 'Fan' and the second is set to 'Chowmain'. Below these is a 'Results' section with a 'Sort by:' dropdown set to 'Relevance'. The search results list one item: 'Generic Fan Speed Controller (IR)' by Chowmain. Below the item name, it says 'Generic Fan Speed Controller' and 'Fan'. A 'Local' tag is visible in the bottom right corner of the result box.

4. Double click on the **'Generic Fan Speed Controller (IR)'** driver to add it to your project
5. Highlight the **'Fan'** driver on the left hand side. Rename it to a meaningful name if required.
6. If your fan requires an **'ON'** command be sent prior to a mode change:
 - a. Set the **'Send On Before Speed'** property to **'True'**. Otherwise leave it as **'False'**.



The screenshot shows a property label 'Send On Before Speed' followed by a dropdown menu currently set to 'False'.

- b. Enter in the IR Code for the **'ON'** command along with repeat count.

- Enter in the IR Codes along with repeat counts for each mode


Note: The infra red codes will need to be obtained from the manufacturer or learnt using the an infra red learner. Control4's controllers have infra red learners inbuilt and can be used during the driver wizard process. See the installation manual for more details on how to use the driver wizard

Off IR Code	0000 006f 0000 0020 0009 001e 0009 001e 0009
Off Repeat Count	0
Low IR Code	0000 006f 0000 0020 0009 001e 0009 001e 0009
Low Repeat Count	0
Medium IR Code	0000 006f 0000 0020 0009 001e 0009 001e 0009
Medium Repeat Count	0
Medium High IR Code	0000 006f 0000 0020 0009 001e 0009 001e 0009
Medium High Repeat Count	0
High IR Code	0000 006f 0000 0020 0009 001e 0009 001e 0009
High Repeat Count	0

- Click on the Connections tab.



- Highlight driver on the left hand side.
- Bind the IR Sensor to the IR output to be used.

Name	Type	Connection	Input/Output	Connected To
Control Inputs				
 IR Sensor	Control	IR_OUT	Input	

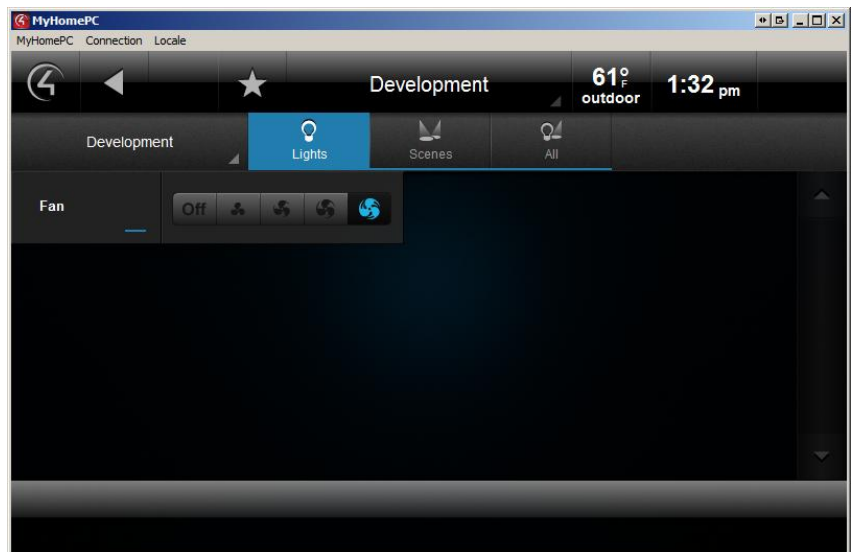
- Click on the File and Refresh Navigators. Congratulations you have set up Generic Fan Speed Controller driver.

FAQ

How do I use the driver?

For some reason Control4 has added the Fan proxy to the lighting page. As such on your navigator device you will need to browse to lighting for that room (or all rooms). You will be able to control it by touching the speed (if it is a touchscreen) or by clicking on the Select button if it is a SR-250. Alternatively on the SR-250 you can also press numbers whilst highlighting the Fan proxy to perform mode changes.

- 0 – Off
- 1 – Low
- 2 – Medium
- 3 – Medium High
- 4 – High



My device doesn't have 4 different speeds!

We understand that many fans have 3 speeds. Unfortunately though Control4's proxy requires 4 speeds and cannot be changed (at the time of writing this document). As such it is recommended that you enter the same infra red code for medium for medium high.

I have a fan but its only got one speed button!

Not all fans have discrete codes. We recommend that you contact the manufacturer to see if they can provide discrete IR codes for your device.

Licencing

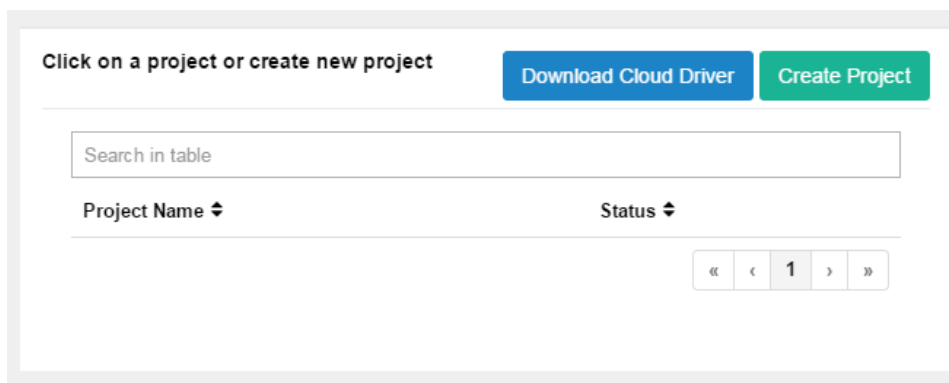
Chowmain drivers require a valid licence to use the driver. Drivers can be purchased from our distributor [driverCentral](#) however all Chowmain drivers come with a 7 day trial. We recommend that prior to purchasing a driver that you test the driver out to ensure that it will work with your hardware and will meet your requirements. The licencing procedure is broken down into 4 steps. A summary of the steps are below along however we have also provided detailed steps if the summary is not sufficient.

Summary

1. Create your project on the driverCentral.io website (This will generate a specific token which you will use in the next step)
2. Download, install and activate the driverCentral cloud driver in your project (Only once per project. Use the token generated in step 1)
3. (Optional) To try a driver, simply download it and install it in your project
4. To purchase a driver:
 - a. On driverCentral, purchase a license and register it to your project
 - b. If the driver is not already installed in your project, download it and install it
 - c. If necessary, use the cloud driver's Action: "Check Drivers" to force licence download to the project.

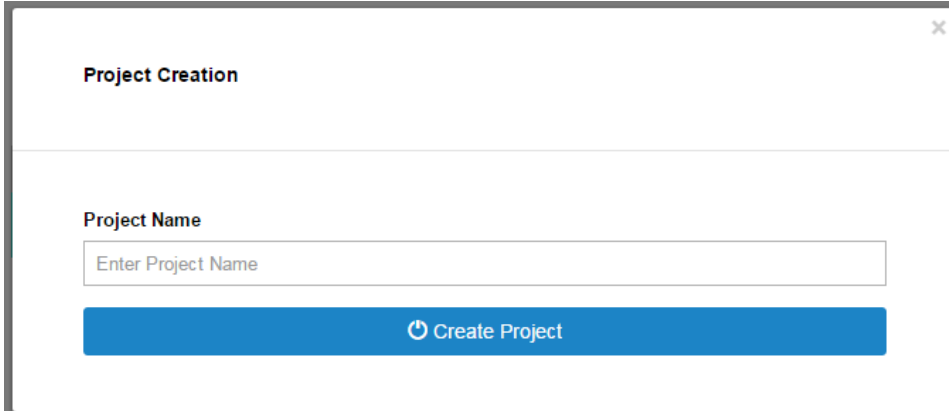
STEP 1 - Creating your project on driverCentral

1. Visit <http://www.drivercentral.io>
2. Log into your driver Central dealer account.
3. Visit the Project Portal
4. Click on Create Project



The screenshot shows the driverCentral Project Portal interface. At the top, there is a header with the text "Click on a project or create new project" and two buttons: "Download Cloud Driver" (blue) and "Create Project" (green). Below the header is a search bar with the placeholder text "Search in table". Under the search bar, there are two columns: "Project Name" and "Status", both with a dropdown arrow. At the bottom right, there is a pagination control showing "1" in a box, with arrows for navigation.

- It will prompt you for a project name. Type in a meaningful name for your customer's project



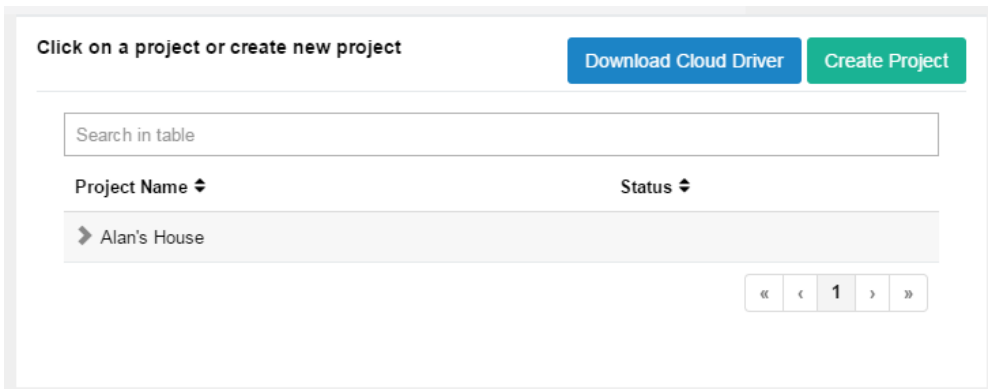
Project Creation

Project Name

Enter Project Name

Create Project

- Click on Create Project
- Click on the project we just created to expand the project



Click on a project or create new project

Download Cloud Driver Create Project

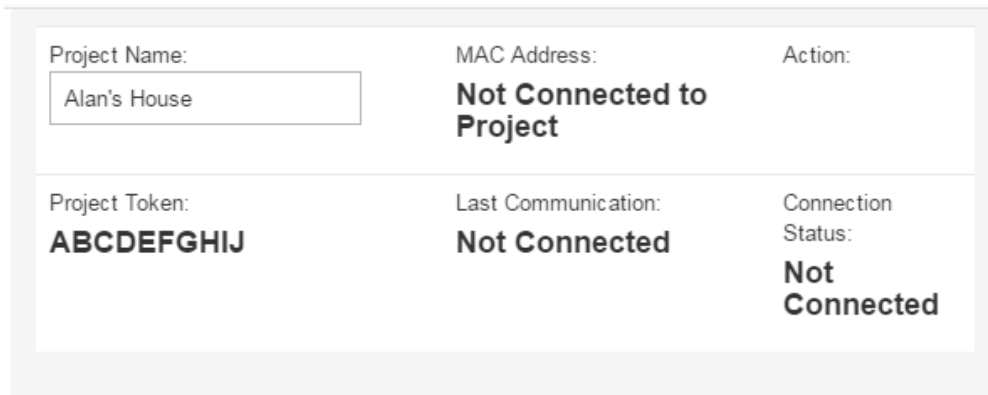
Search in table

Project Name Status

Alan's House

« < 1 > »

- Take note of the Project Token as this will be used in STEP 3 when we install the driverCentral cloud driver.



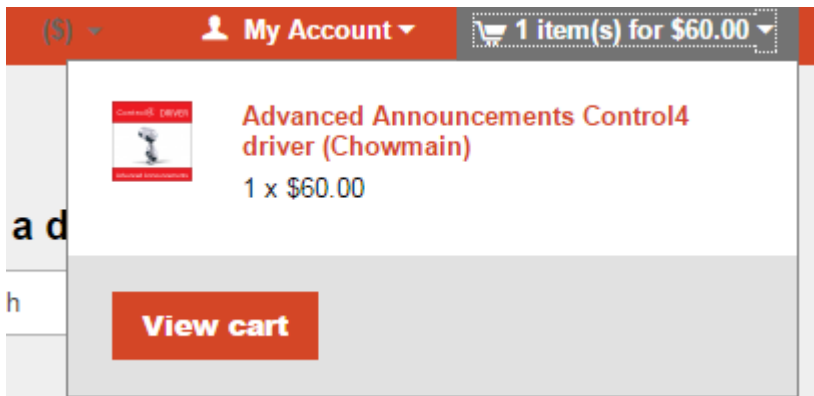
Project Name: Alan's House	MAC Address: Not Connected to Project	Action:
Project Token: ABCDEFGHIJ	Last Communication: Not Connected	Connection Status: Not Connected

STEP 2 –Purchase driver licence

1. Visit <https://www.drivercentral.io/chowmain-ltd/> and find the product/driver you want to purchase a licence for.
2. Click on the Add to Cart button



3. Click on the Shopping Cart icon in the top right corner and click on View cart




4. Confirm that your order is correct and click on Proceed to checkout



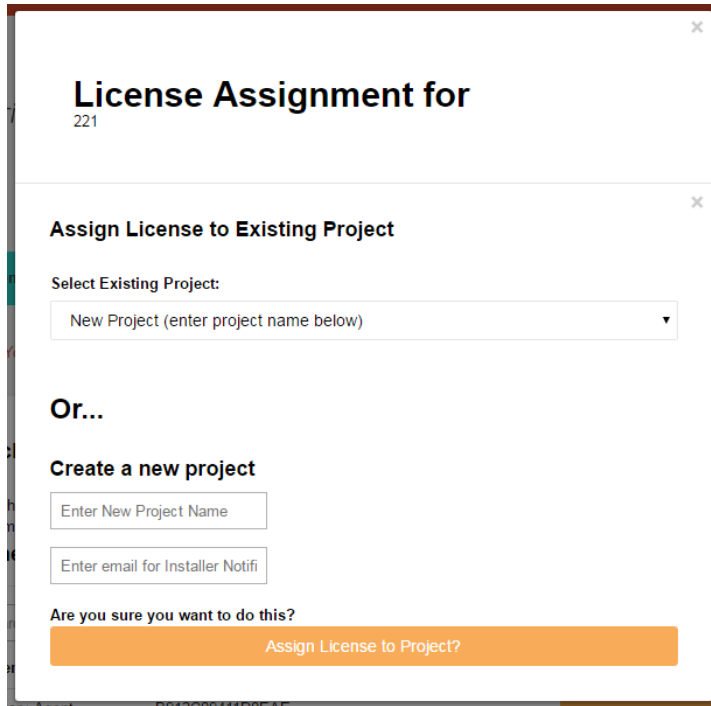
5. Follow the prompts and click on Submit my order



6. This will take you to PayPal for payment.
7. Pay via PayPal. It will automatically return to the marketplace when confirmed.
8. You will now be at a page where you can see your purchased licence.

License Name ↕	License Key ↕	Project Assigned ↕	Action ↕
			<button>Assign to Project</button>

- From here assign the licence to the project we created or if you did not follow that step create a new project



License Assignment for
221

Assign License to Existing Project

Select Existing Project:
New Project (enter project name below) ▼

Or...

Create a new project

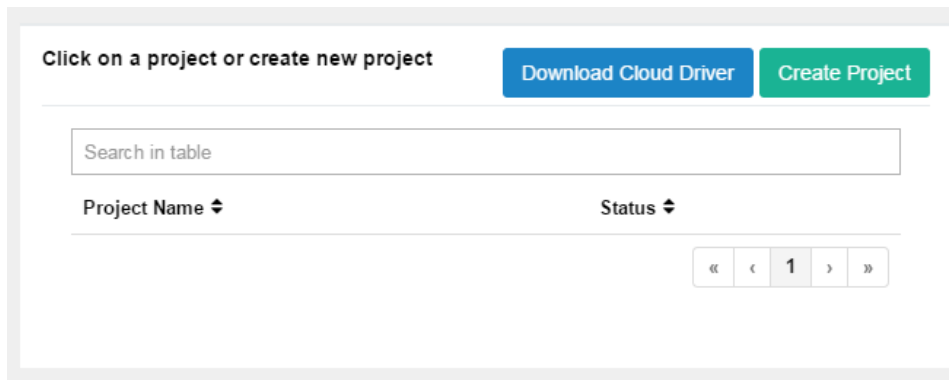
Enter New Project Name
Enter email for Installer Notifi

Are you sure you want to do this?
Assign License to Project?

STEP 3 – Install and activate the driverCentral cloud driver

NOTE: Only one instance of the driverCentral cloud driver installed per project. Do not install additional cloud drivers.

- Visit <http://www.drivercentral.io>
- Log into your driver Central dealer account.
- Visit the Project Portal
- Click on Download Cloud Driver



Click on a project or create new project

Download Cloud Driver Create Project

Search in table

Project Name ↕	Status ↕
« < 1 > »	

- Copy the C4Z driver to My Documents\Control4\Drivers directory.
- Add the driver to your project.

- Click on the driver to view it's properties

Cloud Status	Please enter cloud project token below...
Project Information	(1) Total, (0) Licensed, (0) Trials, (1) Expired, (0) Updates.
Driver Version	1001
Project Token	<input type="text"/>
	Project token from driverCentral.io project portal
Driver Actions	<input type="button" value="v"/>
Debug Mode	Off <input type="button" value="v"/>

- Type in the project token we took note of in STEP 1.
- Click on the Actions tab
- Click on Check Drivers

STEP 4 – Install Chowmain driver

- Install the Chowmain driver
- You will notice that the Activation Status reflects a Licence Activated state.
- Any driver that does not have a purchased licence will have a trial licence activated via the marketplace. Note that there is no way to reactivate the trial so please use wisely.
- If you do not then press the Check Drivers action in the driverCentral Cloud driver again.

Activation Status	Update Available!!! License Activated
Driver Version	1002
Driver Information	Navigate to connections tab and make serial binding
Automatic Updates	Off <input type="button" value="v"/>