



Daikin SkyFi Driver

Installation and Usage Guide

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Overview

HVAC installation in the United States is easy as thermostats all utilise a universal standard and as such can be replaced easily by a 3rd party thermostat such as Control4’s thermostat. Unfortunately HVAC manufacturers outside of the United States do not always utilise this standard and some countries like Australia and New Zealand have proprietary RS485 based bus’s that are specific to the HVAC manufacturer and model.

This makes it extremely cumbersome for Control4 dealers to source a reliable HVAC product and in many countries Control4 dealers do not even bother with HVAC integration because it is just too hard.

Luckily Daikin has released its SkyFi module for their Daikin Ducted, Sky Air and certain VRV indoor units. Unlike other solutions this unit is manufactured by Daikin and as such will not void the warranty of the HVAC system should you connect it to their bus. It is also extremely cost effective making integration of HVAC to Control4 so affordable that integration of HVAC becomes a no brainer.

The Chowmain Daikin SkyFi driver integrates the SkyFi module and provides full 2 way control over temperature, HVAC mode, setpoint, fan speed, timer functions and zone control. Setup of hardware and driver should take you no more than 30 minutes once you get the hang of it.

Features

- HVAC Modes – OFF, AUTO, HEAT, COOL, DRY
- FAN Speeds – LOW, MEDIUM, HIGH, AUTO
- Temperature Feedback
- Setpoint Control
- Zone Name import *
- Zone On/Off (Open/Shut) *
- Timer Function (Turn on system in x hours and off in x hours).
- Outside Temperature Feedback *
- Filter Clean Notification on Navigator.
- Ability to turn on/off the whole HVAC system via programming tab without changing modes (ie turn on to last mode).
- Ability to control Zones via programming tab.

* If fitted to the HVAC system.

Change Log

Version #20160423 - 23-APR-2016

- Added feature to turn on/off system (without mode change) via programming
- Added customisable HVAC and Fan modes. This is so that you can remove modes that are not available in your system.
- Made some changes to zones

Version #20160415 - 15-APR-2016

- Initial Release

Disclaimer

This driver is used to integrate the Daikin SkyFi module (BRP15A61). Chowmain Ltd is not responsible if the module is not compatible with the HVAC system installed. It is your responsibility to ensure that the module is installed and is working correctly using the official Daikin smart phone application prior to setup of the Chowmain driver.

SkyFi Controller Compatibility

The SKYFi Controller is conveniently compatible with all new Daikin ducted air conditioning systems.

In addition to this, all Daikin ducted heat pumps that have been manufactured after 2003 are likely to have Wi-Fi capability, with the addition of Daikin's BRP15A61 SKYFi Interface.

Note: Daikin's remote control communications support a maximum of two controllers, at any one time. Because the Daikin SKYFi controller interface is recognised as a controller, it cannot be installed onto an existing air conditioning system that already has two remote controllers associated with it – even if that's one upstairs and one downstairs.

Hardware Installation

Thank you to Peninsula Air Conditioning (<http://www.penair.com.au>) for letting us utilise their installation procedure. If you are not a Daikin dealer and need to purchase a module then we recommend you purchase the module from Peninsula Air Conditioning.

Please note that the summary below is intended only for those suitably qualified. Full instructions for the installation, connection and usage of the Daikin SKYFi Controller BRP15A61 are supplied with the product.

Quick summary:

1. Switch off the power to the air conditioner at the mains socket or isolator switch.
2. Write down the device ID number and password of your controller.



3. Once you've done this, remove the cover to the internal electrics on the fancoil. Next, attach the SKYFi Controller cables to the P1 and P2 terminals (see picture example) then replace the cover.



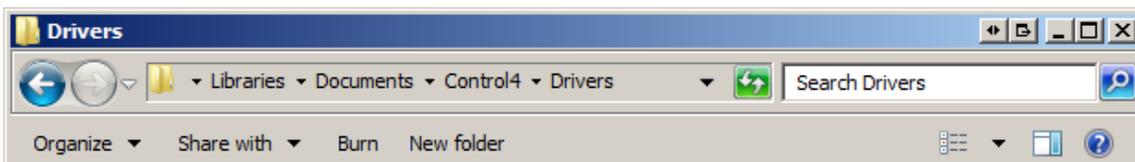
4. Position your SKYFi Controller in a place in close proximity to a nearby router, for easy communication over WiFi.
5. Restore power to the air conditioning system and download the Daikin SKYFi app on your SmartPhone or Tablet.
6. Using the WiFi setting, locate a network called DaikinAC _thenyouridnumber.
7. Connect to that WiFi network using the password you noted down previously.
8. Finally, launch the Daikin SKYFi app and configure the system to suit your requirements.

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.

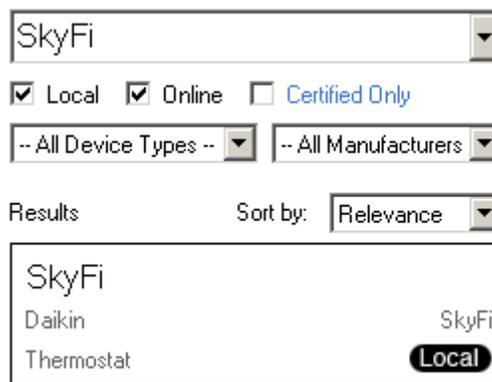


3. You are now ready to add and configure the driver via the Composer Pro software.

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. Type in 'SkyFi' in the search bar and press Enter on the keyboard



SkyFi

Local Online Certified Only

-- All Device Types -- -- All Manufacturers --

Results Sort by: Relevance

SkyFi
Daikin
Thermostat SkyFi
Local

4. Double click on the 'SkyFi' driver to add it to your project
5. Highlight the 'Daikin SkyFi' driver on the left hand side.
6. Enter in the IP Address of the unit, ID Number and Password.
NOTE: You will need to setup the SkyFi on a static IP address or DHCP reservation.

IP Address	
ID Number	
Password	

7. If successful you will see the fields populate.

Current Room Temperature	24
Current Outdoor Temperature	23
Current Mode	HEAT
Current Setpoint	21
Current Scale	CELSIUS
Current Fanspeed	LOW

8. Some HVAC systems do not have certain modes (eg heat only or cool only systems). Remove any modes from the HVAC Modes and Fan modes that do not apply to the HVAC system and click on set.

Note: You cannot add new modes in. You can only remove modes by deleting the comma separated text for that particular mode. Please ensure that there is no comma at the very end of the text field by itself.

HVAC Modes	OFF, AUTO, HEAT, COOL, DRY, FAN
FAN Modes	LOW, MEDIUM, HIGH, AUTO

9. Congratulations you have successfully setup the SkyFi driver.

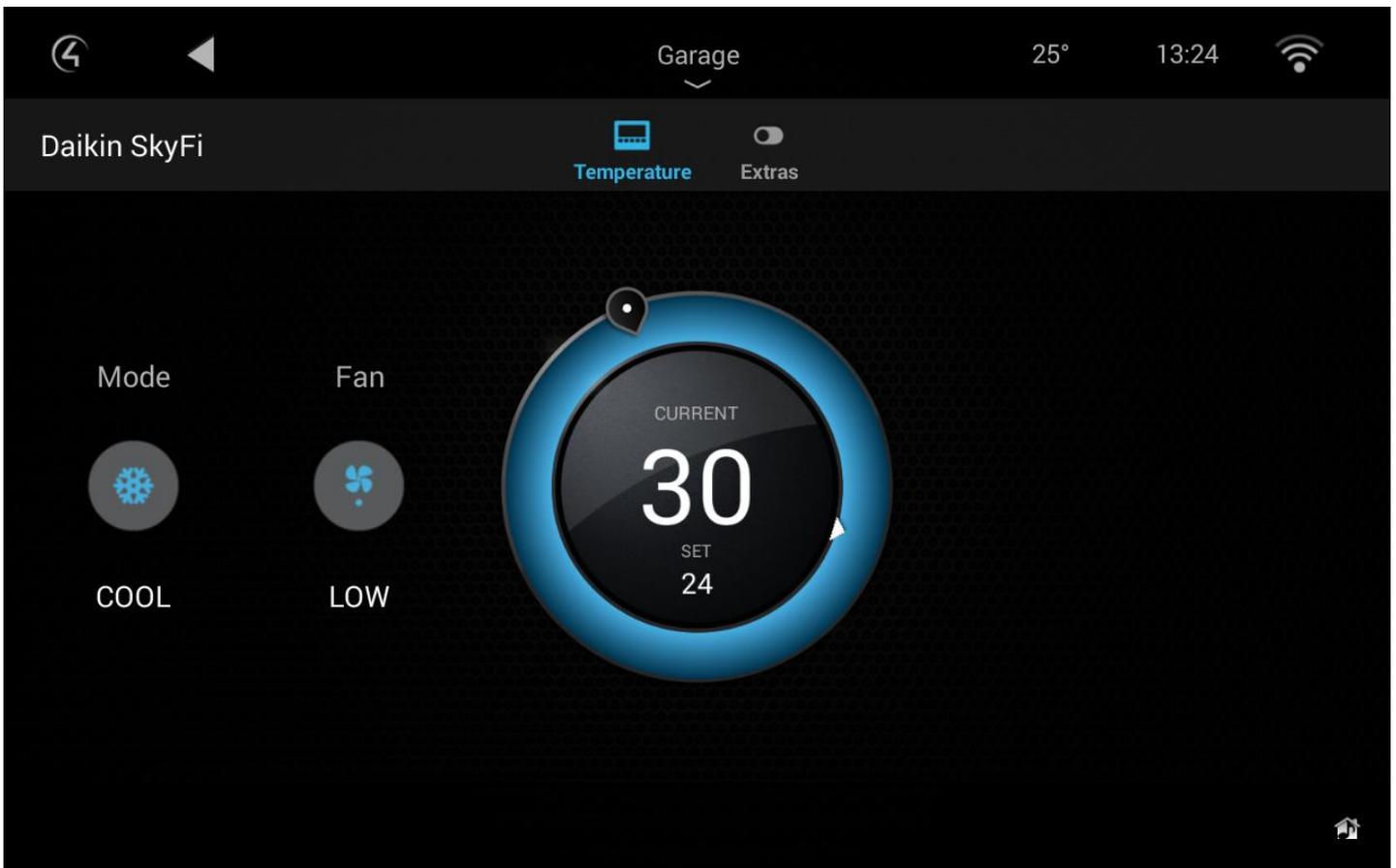
Usage

The SkyFi unit can be controlled through the Comfort icon in Control4's user interface.

Temperature

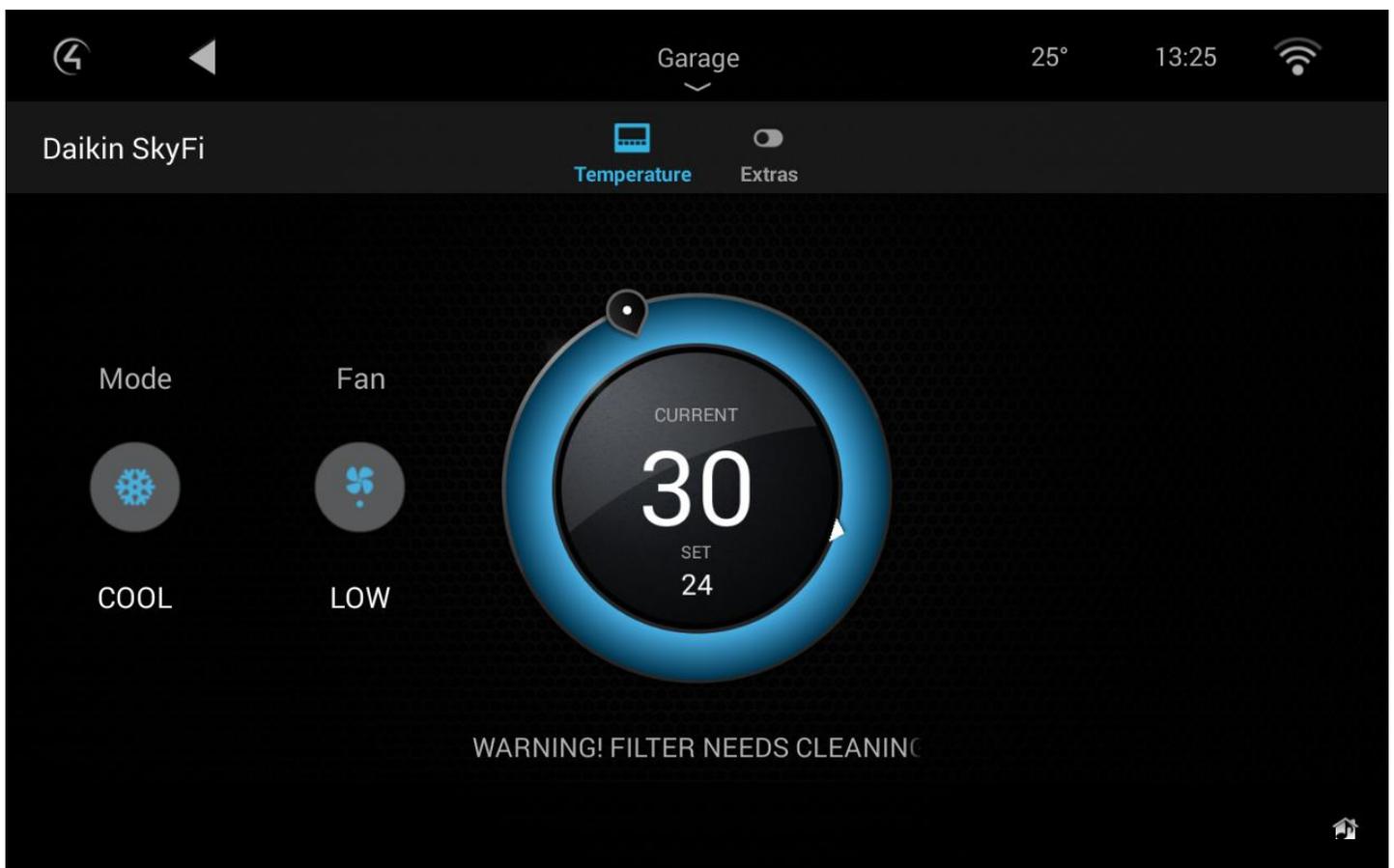
The Temperature tab allows you to control the following.

- **MODE** – Off, Auto, Heat, Cool, Dry, Fan
- **FAN** – Low, Medium, High, Auto
- **SETPOINT** – 18-32 degrees Celcius (single setpoint)



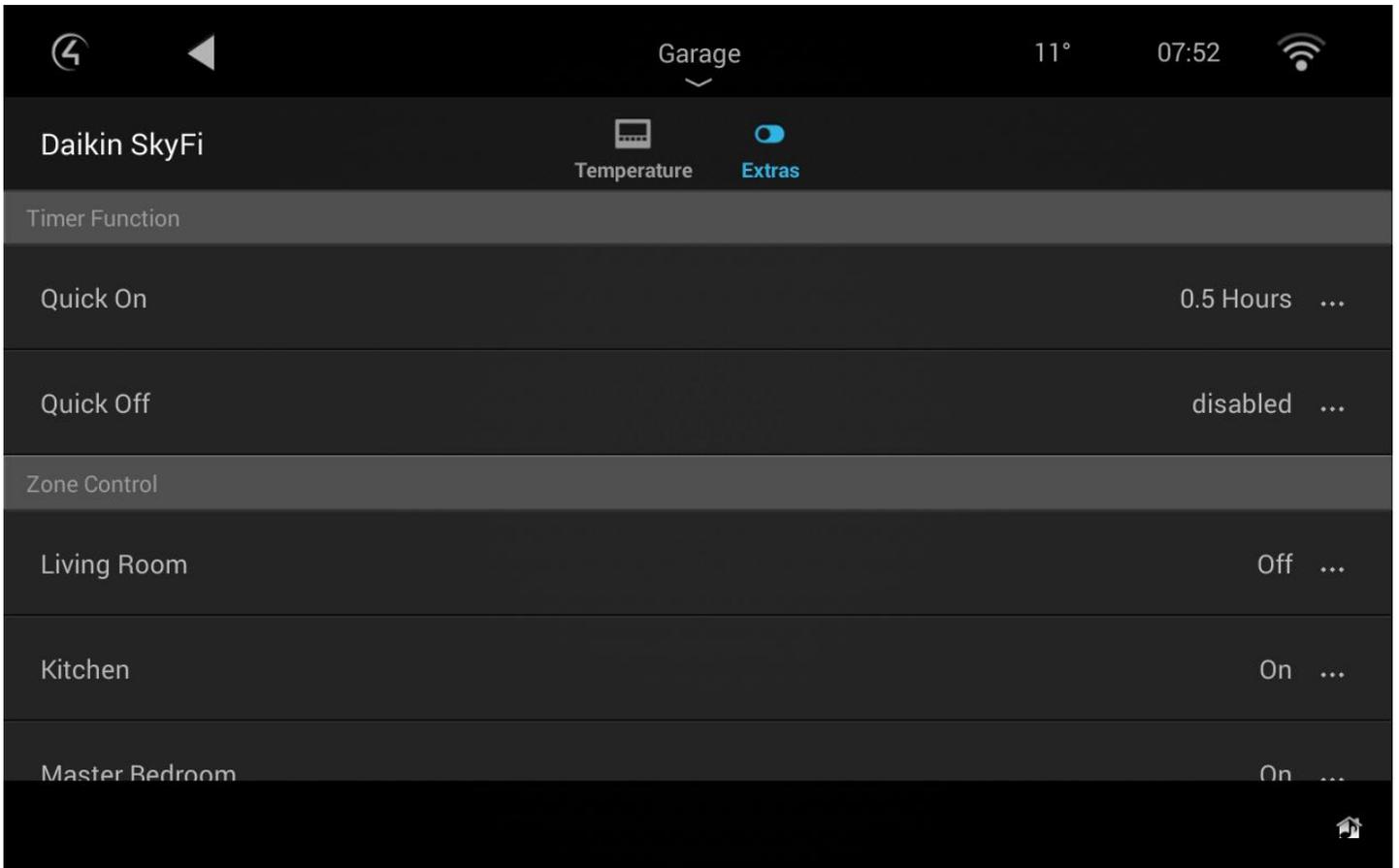
The Temperature tab will also provide the following feedback.

- Filter requires cleaning.
- Timer feedback (when the ON and OFF timer functions are due to fire).
- Current Temperature
- Current Setpoint
- Current Mode
- Current Fan Speed



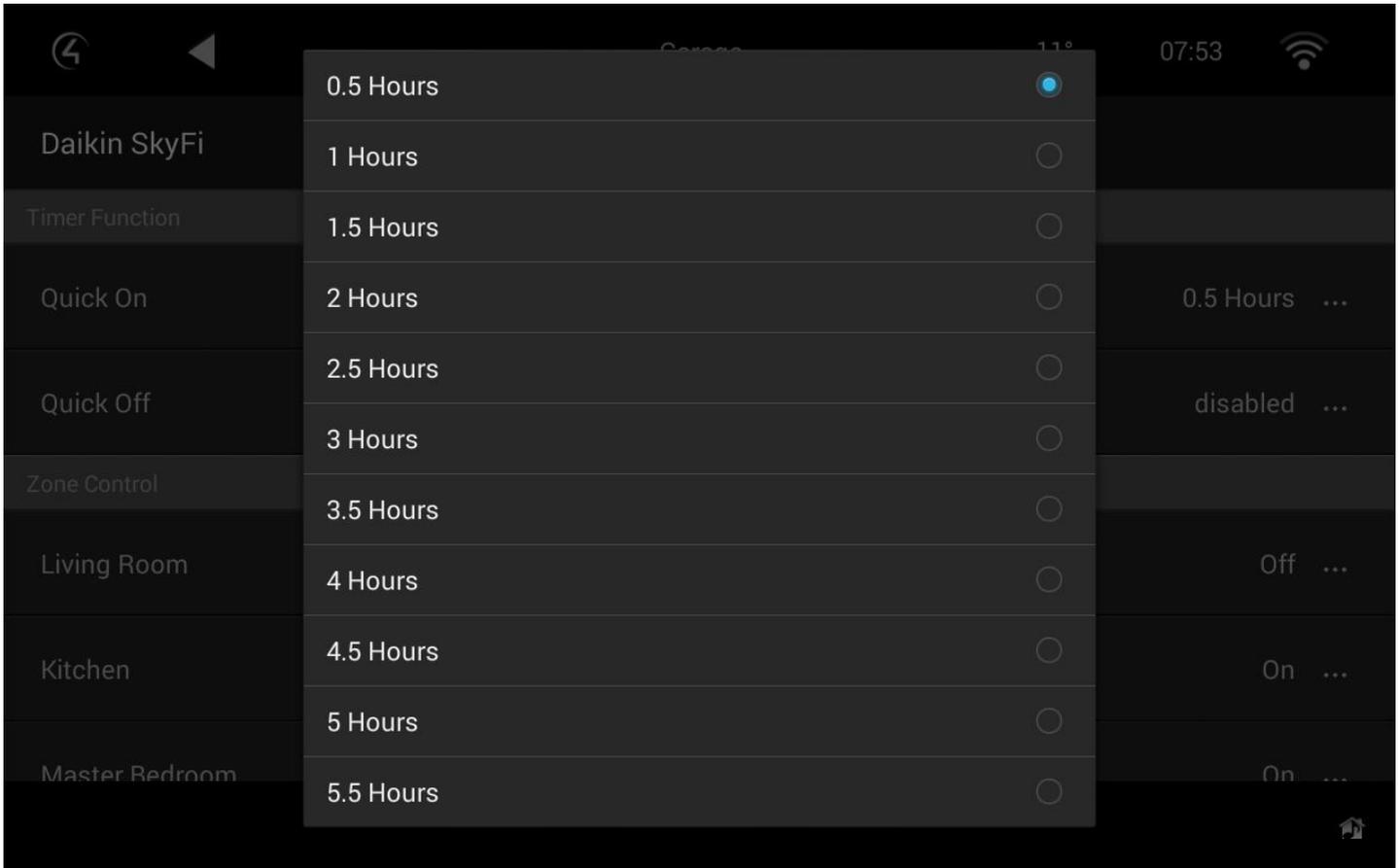
More

The More tab allows for additional functionality.



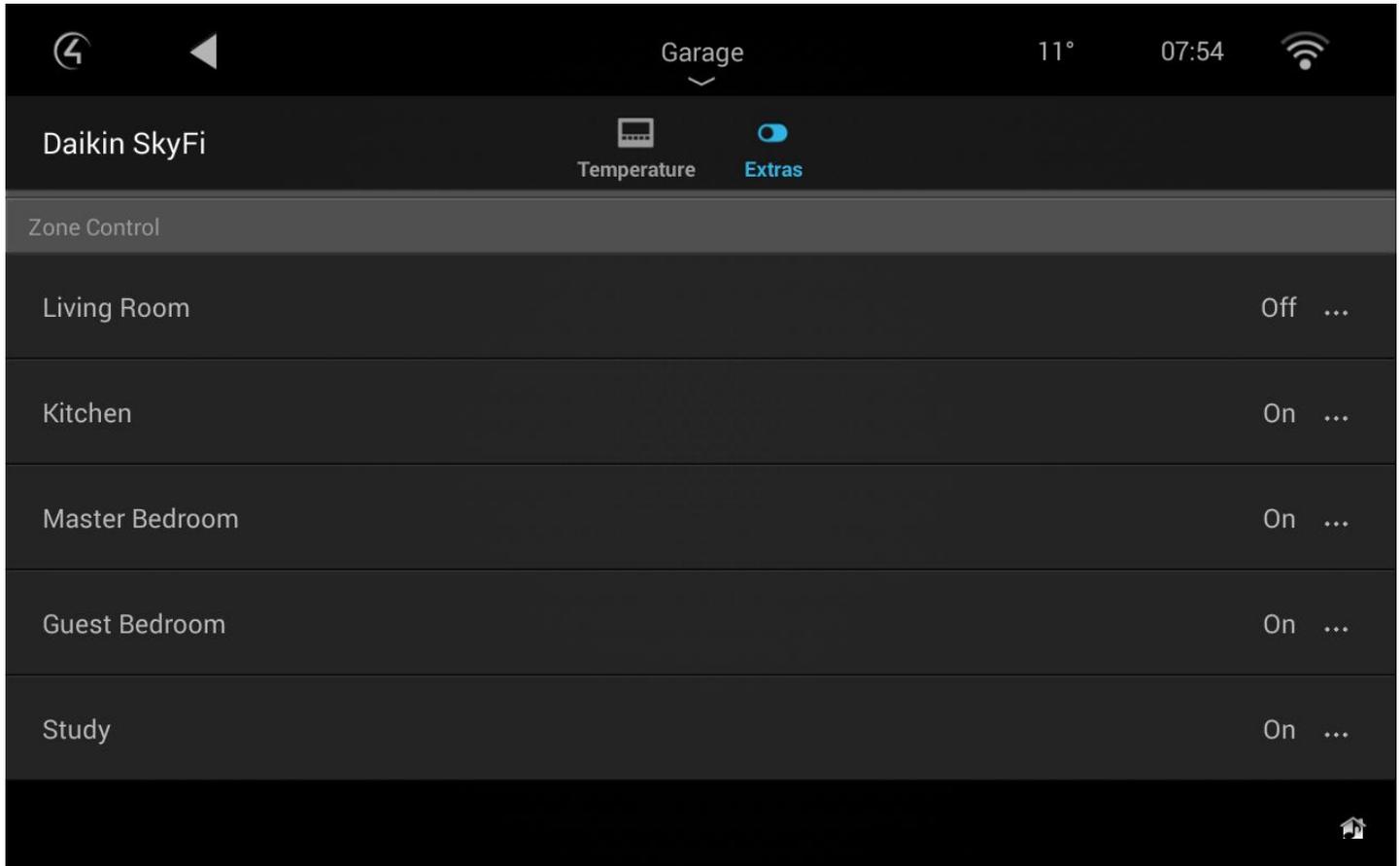
Timer Functions

Controls the quick on and quick off functionality built into the SkyFi. It will allow you to tell the HVAC system to turn on in x hours and off in x hours. This is useful for basic one off scheduling.



Zone Control

Will automatically pull in the names and states of the zones from the SkyFi module. It will allow open (on) and shut (off) control over zone dampers. Selecting the On or Off button will toggle the state.



Licencing

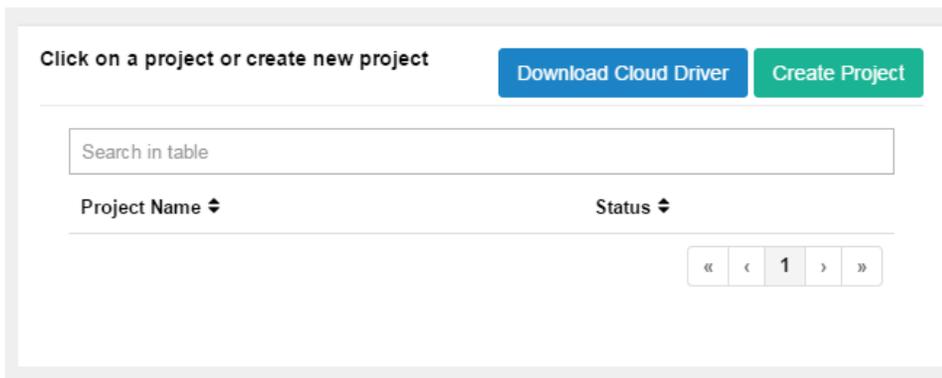
Chowmain drivers require a valid licence to use the driver. Drivers can be purchased from our distributor [driverCentral](#) however all Chowmain drivers come with a 7 day trial. We recommend that prior to purchasing a driver that you test the driver out to ensure that it will work with your hardware 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

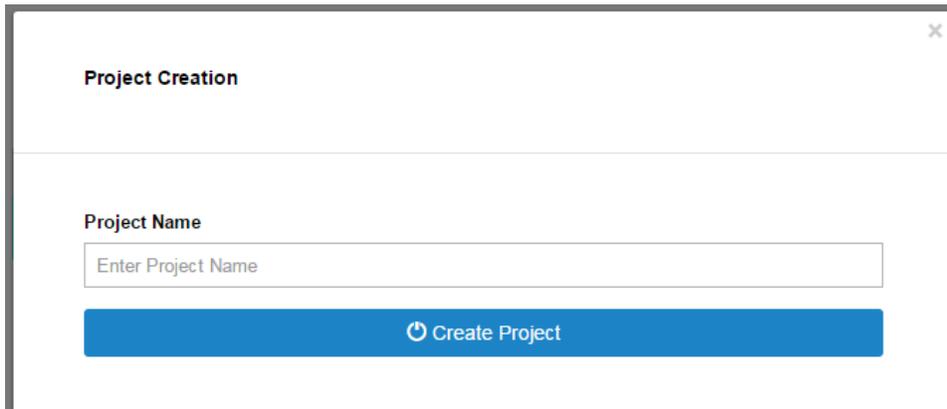
1. Create your project on the driverCentral.io website (This will generate a specific token which you will use in the next step)
2. Download, install and activate the driverCentral cloud driver in your project (Only once per project. Use the token generated in step 1)
3. (Optional) To try a driver, simply 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

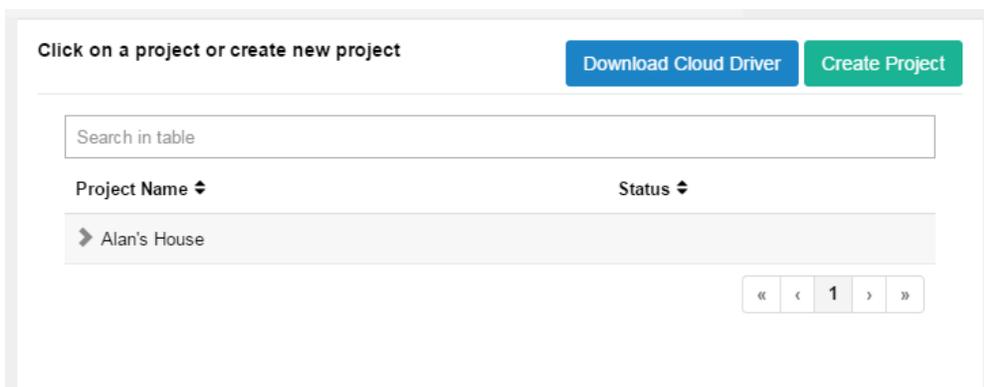
1. Visit <http://www.drivercentral.io>
2. Log into your driver Central dealer account.
3. Visit the Project Portal
4. Click on Create Project



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



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



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

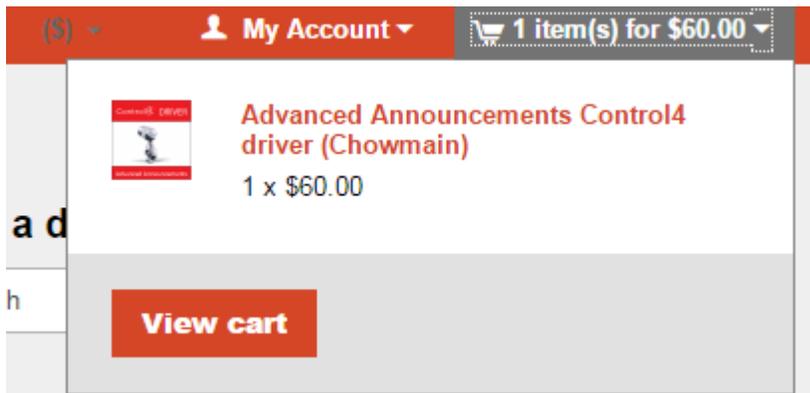
Project Name: <input type="text" value="Alan's House"/>	MAC Address: Not Connected to Project	Action:
Project Token: ABCDEFGHIJ	Last Communication: Not Connected	Connection Status: Not Connected

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



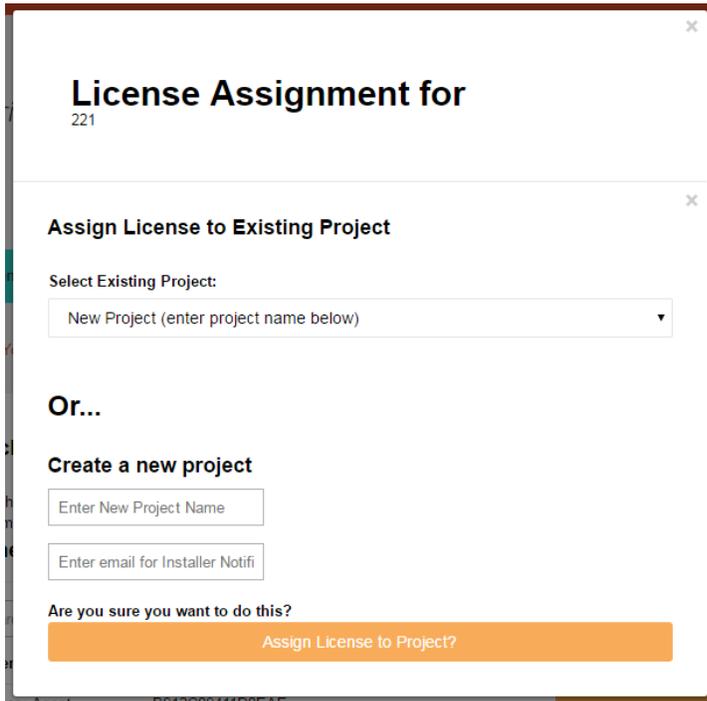
5. Follow the prompts and click on Submit my order



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 ⇅
[REDACTED]			Assign to Project

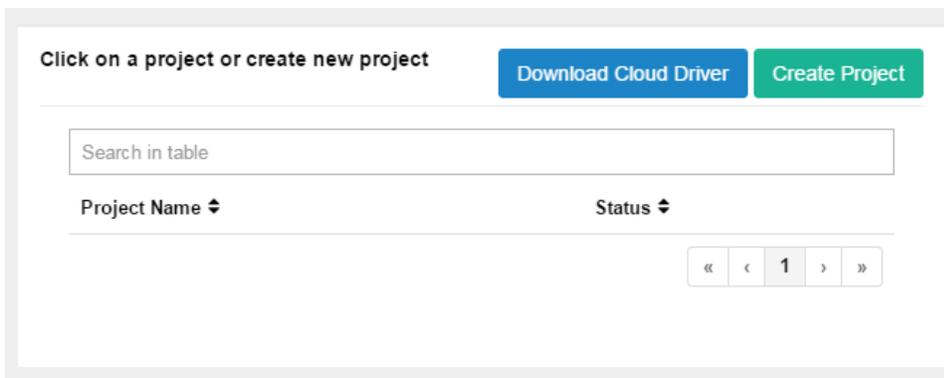
- From here assign the licence to the project we created or if you did not follow that step create a new project



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



- 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"/>