

Apple TV Installation and Usage Guide



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Contents

Overview.....	6
Features.....	8
Setup Driver.....	10
Requirements.....	10
Before You Start.....	10
Quick Setup.....	10
Devices in the Room.....	11
Pairing.....	11
When the Apple TV's Address Changes.....	12
Pairing from the Apple TV Page.....	13
Power and Waking the Apple TV.....	13
Auto Room On and Off.....	14
IR Fallback.....	14
Opening Apps.....	15
Control4 Mini Apps (Apple TV App 1 to 50).....	15
Custom Apps (Apple TV App 51 to 75).....	15
Selecting a Mini App.....	16
Launch Commands and Deep Links.....	16
Touchscreens and the Control4 App.....	16
Navigator Remote.....	17
Programming Examples.....	17
Driver Configuration.....	18
Actions.....	18
Commands.....	18
Properties.....	19
Events.....	22
Conditionals.....	22
Variables.....	23
Custom App Driver Configuration.....	23
Actions.....	23
Commands.....	23

Properties.....	24
Status Messages.....	24
Using the Apple TV Pages.....	24
Controls.....	25
Apps.....	25
Search.....	25
Now Playing.....	26
Volume, Mute and Room Off.....	26
Typing and Voice.....	26
When the Apple TV Is Offline.....	26
When the Apple TV Isn't Paired.....	26
Troubleshooting.....	28
Discover Device finds no Apple TVs ("No Apple TVs answered").....	28
"This Apple TV only allows pairing from people in its Home"	28
No code appears on the TV, or "No pairing is waiting for a code"	28
"The ... pairing code on the TV timed out"	28
"The ... pairing code was not accepted"	28
"The Apple TV asked to wait ... seconds before pairing again"	29
"Rejected - re-pair", or the Pairing Required event fires.....	29
"A different Apple TV ('..') now answers at ...", or "Another device ('..') now answers at ..."	29
"... is a different Apple TV ('..') from the one this driver is paired with", or "... is another device ('..'), not the Apple TV this driver is paired with"	29
"Nothing answers at The paired Apple TV ... answers at ..."	29
"The Apple TV has a self-assigned address (169.254...)"	29
The Apple TV page says "This Apple TV is already paired"	30
The Apple TV page says "The driver doesn't know this Apple TV's address yet"	30
Companion Connection shows Unreachable or Disconnected.....	30
"The Apple TV did not wake within 3 minutes"	30
No titles, artwork, play state or current app.....	30
An app shows as the Home screen.....	31
"... did not open on the Apple TV within 10 seconds", or "... isn't installed on this Apple TV"	31
"Could not launch ...: no Apple TV app matches the mini app ..."	31
"Could not launch ...: ... matches both ... and ..."	31
A deep link opens the app but not the content.....	31

"Setting an exact volume needs the Apple TV to control the volume itself"	31
"... is not available on Apple TV"	31
"Number keys type into a text field on the Apple TV; none is selected right now"	32
Text is not typed on the Apple TV	32
Keys are refused with "... needs the network connection to the Apple TV; it is on IR fallback"	32
Keys are refused with "... the Apple TV is not connected and IR Fallback is ..."	32
The IR traffic light is orange.....	32
IR does nothing.....	32
"Room Off could not put the Apple TV to sleep"	32
"... was blocked: the driver licence is not valid"	32
The Apple TV pages are out of date after a driver update.....	33
The Apple TV page says "The Apple TV page couldn't start" or "The Apple TV page stopped"	33
The page shows "Choose a room for volume"	33
A room is missing from the room list on the Apple TV page.....	33
Search says "The catalogue could not be reached from this screen"	33
Search the App Store opens the App Store without searching.....	33
A Custom App's Status isn't Ready.....	33
FAQ.....	34
What are the Requirements for this driver?.....	34
Why is this product so exciting?.....	34
What devices work with this driver?.....	34
Do I need to pair both Companion and AirPlay?.....	34
Does the driver need the internet or a cloud service?.....	34
Where does the driver appear on the Apple TV?.....	35
Can I use more than one Apple TV in a project?.....	35
Does it work with an Apple TV on Wi-Fi?.....	35
How do I open apps from Control4?.....	35
Why use the Custom App instead of a Control4 mini app?.....	35
Can I launch content directly?.....	35
Can Control4 control the volume through the Apple TV?.....	35
Does mute work?.....	35
What is IR fallback, and do I need it?.....	36
Can I use Siri?.....	36
Do I need to pair again after a driver update or a controller replacement?.....	36

I'm replacing another Apple TV driver. Can I keep my programming?.....	36
How do I remove the driver's pairing from the Apple TV?.....	36
Do you offer any other cool drivers?.....	36
I want to try this driver out before buying it?.....	36
Licensing.....	37
Marketplace.....	37
To Purchase drivers.....	37
Create Chowmain Project and obtain Project Code.....	37
To Assign purchased drivers to Project.....	38
Control4.....	40
To Download and install Chowmain drivers:.....	40
Install Chowmain Agent.....	41
Link Project Code to Control4 Project.....	42
LICENCING FAQ.....	42
What are the Requirements for Chowmain licencing?.....	42
How do I know if the deployed driver is using Chowmain Licencing?.....	42
How does the trial period work?.....	43
What benefits does Chowmain Project Agent provide?.....	43
Where do I buy a Licence from?.....	44
Can I upgrade old versions of drivers from other marketplaces to Chowmain?.....	44
Developer Information.....	45
Support.....	46
Ticket / Live Chat Support.....	46
Phone Support.....	46
Driver Documentation.....	46
Change Log.....	47
20261026 - 26-OCT-2026.....	47

Overview

The Chowmain Apple TV driver for Control4 delivers a powerful, feature-rich integration for Apple TV 4K and Apple TV HD, bringing seamless control, real-time feedback, intelligent automation and an enhanced user experience to your Control4 system.

Unlike traditional one-way integrations, our driver communicates directly with Apple TV using Apple's native protocols, providing fast, reliable bi-directional IP control without requiring additional hardware, bridges, third-party applications or cloud services. With real-time feedback for power, playback status, currently running applications and media information, Control4 can respond intelligently to what is happening on your Apple TV, regardless of whether it is being controlled through Control4, the Apple Siri Remote, an iPhone or AirPlay.

Take your entertainment experience to the next level with intelligent automation. Automatically dim the lights when a movie starts playing, brighten them when playback is paused, or trigger custom programming based on the application being used. With Auto Room On functionality, Control4 can even automatically turn on the room and select the correct source when someone wakes the Apple TV or starts streaming content via AirPlay. Auto Room Off can also turn the room off after the Apple TV has been asleep for a configurable period.

The integration goes well beyond traditional remote control with a beautifully designed, custom user interface available on Control4 T4 and T5 touchscreens and the Control4 app for iOS and Android. Users can navigate their Apple TV using a full-featured remote interface, browse and launch installed applications, switch between Apple TV user profiles, search for movies and television shows, view content artwork and discover where content is available to watch. Additional functionality includes access to playback queues, chapters, audio tracks and subtitle options where supported.

Enjoy seamless access to your favourite streaming services directly from the Control4 interface. The driver supports Control4 mini apps, allowing users to launch their favourite applications directly from Navigator without navigating through the Apple TV home screen. Our included Apple TV Custom App driver takes this even further, allowing integrators to launch virtually any installed application or deep link directly into supported content, including specific movies, television shows and channels.

The driver also replicates the functionality of Apple's Siri Remote, including genuine press-and-hold functionality for navigation, scrolling, scrubbing and accessing additional menus. Smart Play intelligently wakes the screensaver or resumes playback, while text entry capabilities allow Control4 to enter search queries and other text directly into Apple TV applications.

Designed with reliability and ease of installation in mind, the driver features automatic network discovery, simple pairing through Composer Pro or the Control4 user interface, automatic reconnection and intelligent IP address recovery. Optional IR fallback provides additional reliability by allowing Control4 to wake an Apple TV from deep sleep or continue controlling it during network connectivity issues.

With extensive programming events, commands, conditionals and variables, the Chowmain Apple TV driver provides integrators with the flexibility to create sophisticated entertainment experiences that integrate seamlessly with lighting, shading, audio, climate and other Control4 subsystems.

Compatible with Apple TV 4K (all generations) and Apple TV HD running tvOS 16 or later. Requires Control4 OS 4.0 or newer.

Features

- Compatible with Apple TV 4K (all generations) and Apple TV HD running tvOS 16 or later.
- Native bi-directional IP control using Apple's own remote protocols. No bridge, additional hardware, third-party software or cloud service required.
- Finds Apple TVs on the network and pairs from Composer Pro, or from a touchscreen or the Control4 app in the room, using the codes shown on the TV.
- Real-time feedback directly from the Apple TV, including changes made with the Siri Remote, an iPhone or AirPlay:
 - Power and display state (asleep, screensaver, Home screen or an app)
 - Play, Pause and Stop
 - The app currently on screen
 - Title, artist, album, series and episode, with artwork
- Remote control that works like the Siri Remote, with real press and hold from Navigator long presses and keypad buttons. Held buttons are released automatically if no release arrives.
- Smart Play wakes the screensaver or resumes playback with one button.
- Number keys and programming commands type into text fields on the Apple TV.
- Red, green, yellow, blue, DVR, Input, Guide and Info buttons can each send an Apple TV key of your choice, or be left to programming with their own events.
- Three touchscreen pages for each room, styled to match Control4's own interface, on T4 and T5 touchscreens and the Control4 app for iOS and Android:
 - Controls: a full Apple TV remote with a D-pad or touch surface, transport and colour buttons, and the room's volume
 - Apps: every installed app, tap to open, switch Apple TV user profiles, and search the App Store for apps that aren't installed
 - Search: search the Apple TV app's catalogue with posters and where to watch, and type (or dictate with the keyboard) into the Apple TV's own search
 - Now Playing: the play queue, chapters, and audio and subtitle choices when the app shares them
- Room volume, mute and Room Off on the touchscreen pages, through the room's own AV receiver, amplifier or TV, for the rooms that can play the Apple TV's sound. Room Off asks first.
- Control4 mini app support on 50 App Switcher inputs, matched to installed apps by name.
- Includes the Apple TV App - Custom App driver, which opens any installed app, or a deep link to content inside it, from 25 more App Switcher inputs.
- Launch App, Launch App ID and Launch Deep Link commands. With AirPlay paired, the driver confirms that the app actually opened.
- Configurable power on and power off behaviour, including Wake On LAN, power on and power off delays, and an optional Home, Play or mini app after power on.
- Auto Room On when the Apple TV wakes or starts playing, and Auto Room Off after it has been asleep for a set time.
- IR fallback through a Control4 IR emitter wakes the Apple TV from deep sleep and keeps the remote working if the network connection is lost.

- Automatic reconnection, and the driver repairs its own address: if the Apple TV gets a new IP address it finds it again by itself, on this subnet, through the sleep proxy when it is asleep, and across a routed network within its old address range. It only ever connects to the Apple TV it was paired with, so two Apple TVs that swap addresses each stay with their own driver.
- Programming:
 - Events: playback, power, display state, app changes, now playing changes, keyboard, colour and programmable buttons, touchscreen tabs, pairing, network and IR fallback
 - Events: also Address Changed when the driver follows the Apple TV to a new address
 - Commands: send any Siri Remote key as a tap, long press, or separate press and release, skip, seek, shuffle, repeat, launch apps and deep links, type text, set volume, wake, sleep, switch user and send IR codes
 - Conditionals: playing, paused, asleep, connected, keyboard active, IR fallback and current app
 - Variables: power, display and play state, current app, title, artist, album, series, season, episode, media type, duration, position, volume, keyboard text and connection state
- Traffic light diagnostics, extended diagnostics and plain-English error messages in the Last Error property.

Setup Driver

Requirements

- Control4 OS 4.0 or newer. Earlier Control4 OS versions are not supported (the driver needs the controller's built-in OpenSSL library).
- Control4 HC-XXX series controllers are not supported.
- Apple TV 4K (any generation) or Apple TV HD running tvOS 16 or later.
- The Apple TV must be on the same network (subnet) as the Control4 controller for **Discover Device** to find it. On routed networks, type its IP address instead. See [When the Apple TV's Address Changes](#) below.
- The touchscreen pages need Control4 T4 or T5 touchscreens, or the Control4 app for iOS or Android.

Before You Start

- Check that the Apple TV can be controlled with the Apple TV Remote in Control Center on an iPhone or iPad.
- Give the Apple TV a static IP address or a DHCP reservation. The driver follows the Apple TV if its address changes, but a fixed address is more reliable.
- Connect the Apple TV by Ethernet where possible. Wake On LAN only works over Ethernet.
- On the Apple TV, open **Settings > AirPlay and Apple Home > Allow Access** (called **AirPlay and HomeKit** on older tvOS versions) and choose **Anyone on the Same Network** or **Everyone**. The driver cannot pair while this is set to **Only People Sharing This Home**.
- Recommended: on the Apple TV, set **Settings > General > Sleep After** to **Never**, so the Apple TV is not in deep sleep when Control4 needs it.
- Make sure you can see the TV connected to the Apple TV. Pairing shows two codes on the screen.
- Optional but recommended: an IR emitter from a controller IR port, placed over the IR receiver on the front of the Apple TV. It is used for IR fallback and to wake the Apple TV from deep sleep.
- Install both drivers from the download at the same time: **Apple TV (Chowmain)** and **Apple TV App - Custom App (Chowmain)**.

Quick Setup

1. Launch **Composer Pro** and connect to the Control4 project.
2. Open **System Design**.
3. Select the **Search** tab on the right-hand side.
4. Enter **Apple TV** into the search field and press **Enter**.
5. Double-click **Apple TV (Chowmain)** to add the driver to the room with the Apple TV.
6. Highlight **Apple TV (Traditional)** in the project tree. The driver's properties and actions are on its **Advanced Properties** tab.
7. Click on **Actions**, then on **Discover Device**.
8. Pick your Apple TV in the **Apple TV** list and click **OK**. The driver looks for Apple TVs each time the list opens and shows each one as *name - IP address - model - tvOS version*. If your Apple TV isn't listed,

type its address into the **Apple TV IP Address** property, then run the **Pair (Companion + AirPlay)** action.

9. Pairing starts by itself and the TV shows a 4-digit code. Click on **Enter Pairing Code**, type the code and click **OK**. You can also type the codes on a touchscreen or in the Control4 app in the room, on the Apple TV page (see Pairing from the Apple TV Page).
10. A few seconds later the TV shows a second code, for AirPlay. Click on **Enter Pairing Code** again and type the new code.
11. **Pairing Status** now reads *Done*. **Companion Paired** and **AirPlay Paired** read *Paired*, and **Companion Connection** and **AirPlay Connection** read *Connected*.
12. Open **Connections**.
13. Expand the **Apple TV (Chowmain)** driver and click on **App Switcher**.
14. Bind the **Audio/Video Outputs** to the inputs of the TV or AV receiver the Apple TV is connected to.
15. Optional but recommended: bind the driver's **IR Sensor** connection to the controller IR port with the emitter on the Apple TV. If you will not use an emitter, set the **IR Fallback** property to *Disabled*. See IR Fallback below.
16. Optional: set **After Power On**, **Auto Power On Room**, **Auto Room(s) Select** and **Auto Room Off**. See Power and Waking the Apple TV, and Auto Room On and Off below.
17. Optional: bind mini apps to the App Switcher. See Opening Apps below.
18. Refresh Navigators.

Devices in the Room

Adding the driver adds these devices to the room. You can rename them; the names below are the defaults.

Device	What it is
Apple TV (Traditional)	The Apple TV as a Control4 Watch source, with the standard Control4 remote and now playing
Apple TV (Advanced)	A tab that opens the Apple TV page at Controls
Apple TV Apps	A tab that opens the Apple TV page at Apps
Apple TV Search	A tab that opens the Apple TV page at Search
App Switcher	Carries the audio and video outputs and the mini app inputs. It is not shown to users

All three tabs open the same page, and Controls, Apps, Search and Now Playing can be reached from each of them. Hide the tabs a room doesn't need in that room's Navigator settings. The tabs can also be added to Favorites.

Pairing

The driver pairs with two Apple protocols, each with its own 4-digit code:

- **Companion** is required. It carries the remote, power, apps, text entry and user profiles.

- **AirPlay** is optional but recommended. It carries now playing: titles, artwork, play state, the current app, the Now Playing tab, and Seek, Shuffle and Repeat. Without it everything else works.

Pair (Companion + AirPlay) pairs both, one after the other. **Pair Companion Only** and **Pair AirPlay Only** pair one of them again, for example after the pairing was removed on the Apple TV.

Pairing Status shows each step, for example *Companion: enter the code shown on the TV*, *Companion: checking the code*, *Companion: paired*, then the same for AirPlay, and finally *Done*. A pairing cancelled on the Apple TV page reads *Cancelled*, and one whose second code was skipped there reads *Done (AirPlay skipped)*. A pairing that gets no code within 5 minutes is cancelled.

Once paired, the driver appears on the Apple TV under **Settings > Remotes and Devices > Remote App and Devices** as **Control4** followed by the room name. A new pairing replaces the stored one. Pairings are kept through driver updates, reboots and a project restore onto a replacement controller.

If the pairing is removed on the Apple TV, or the Apple TV is reset, **Companion Paired** or **AirPlay Paired** reads *Rejected - re-pair* and the **Pairing Required** event fires. Run **Pair Companion Only** or **Pair AirPlay Only** as Last Error says, or tap **Pair** on the Apple TV page.

When the Apple TV's Address Changes

The driver keeps the Apple TV's address up to date by itself. The pairing is what identifies the Apple TV, so the driver only ever connects to the Apple TV it was paired with, wherever it is on the network. It never takes over another room's Apple TV.

- When the Apple TV stops answering at its address, the driver looks for it on the network straight away, then after 30 seconds, 1 minute and 2 minutes, then every 5 minutes. **Companion Connection** ends with *looking for it on the network* meanwhile.
- When it finds the Apple TV at a new address, it connects there first. Only once that works does it update **Apple TV IP Address**, set Last Error to *The Apple TV moved from ... to ...; the driver followed it.* and fire **Address Changed**.
- An Apple TV in deep sleep is found through the network's sleep proxy and woken at its new address.
- If a different Apple TV now answers at the old address (for example two Apple TVs swapped addresses), Last Error says so while the driver looks for its own. The pairing is not marked as rejected.
- If the Apple TV at the address is the same one but no longer accepts the pairing, it was most likely reset. **Companion Paired** reads *Rejected - re-pair* and **Pairing Required** fires.
- An address you typed that has never worked is never changed. If the paired Apple TV answers somewhere else, Last Error gives its address.
- **Address Repair** sets how far the driver looks:
 - *Automatic* (default): this subnet, and if the Apple TV was on another subnet, every address in its old /24 range, at most every 30 minutes. That check tries one port on each address, then asks the ones that answer whether they are the paired Apple TV.
 - *This Subnet Only*: never tries addresses on other subnets.
 - *Off*: never follows the Apple TV to a new address.

- A DHCP reservation for the Apple TV is still the most reliable setup.

Pairing from the Apple TV Page

The codes show on the TV, so the easiest place to type them is often a touchscreen or phone in the same room:

- While the Apple TV isn't paired, every tab of the Apple TV page shows **This Apple TV isn't paired with Control4 yet** with **Pair**, and the **Controls** tab shows a pairing panel. Tapping **Pair** asks the Apple TV for the first code.
- Type each code on the page's number pad. It is sent as the fourth digit is typed. The page shows *1 of 2* (the remote, Companion) and then *2 of 2* (now playing, AirPlay). **Skip** on the second code pairs the remote only; pair now playing later from **MORE › Setup**.
- A pairing started in Composer (Discover Device or a Pair action) can be finished on the page: every open page shows **The TV is showing a pairing code** with **Enter code**. A code typed in either place counts.
- If a code doesn't match, the page says so, and **Try again** asks the Apple TV for a new code for that step only. If the Apple TV asks to wait after several wrong codes, the page counts down.
- **Cancel** stops the pairing, and the driver reconnects with whatever was already paired.
- Once paired, **MORE › Setup** on the **Controls** tab has **Pair again** (it asks first, because the remote stops working until both codes are typed) and, while AirPlay isn't paired, **Pair now playing**.
- Pairing from the page works even when the licence isn't valid, like the pairing actions.
- The page can't set the Apple TV's address. On a new install, run **Discover Device** in Composer first.

Power and Waking the Apple TV

When a room turns on with the Apple TV as its source, the driver:

1. Waits for **Power On Delay**.
2. Sends the **Power On Command**: *Wake* (default) wakes the Apple TV, *Wake + Wake On LAN* also sends a Wake On LAN packet, and *Do Nothing* sends nothing.
3. Runs **After Power On** 1.5 seconds later: *Do Nothing* (default), *Home* (go to the Home screen), *Play*, or *Mini App* (open the App Switcher input chosen in **Power On Mini App**).

If the Apple TV is not connected when the room turns on, the driver wakes it over the network, and over IR when IR fallback is set up. It keeps trying for 3 minutes and finishes the power on once the Apple TV reconnects. After Power On never runs when the room was turned on by selecting a mini app, so it never opens something over the app the user chose.

When the room turns off, the driver waits for **Power Off Delay** and sends the **Power Off Command**: *Sleep* (default), *Home* or *Do Nothing*.

Power Feedback set to *Ignore Feedback* makes Power Status follow Control4's on and off commands only, instead of the Apple TV's own power state.

When one Apple TV is shared by several rooms (through a matrix switch, for example), one room turning off would put it to sleep under the others, and *Home* or *Play* after power on would interrupt what they are watching. For a shared Apple TV, set **Power Off Command** to *Do Nothing* and **After Power On** to *Do Nothing*.

An Apple TV in deep sleep stops answering on the network. Over Ethernet, Wake On LAN wakes it. Over Wi-Fi, set **Sleep After** on the Apple TV to **Never**, or bind an IR emitter: IR fallback set to *Power On Only* is enough to wake it.

Auto Room On and Off

- **Auto Power On Room** selects the Apple TV as the source in each room chosen in **Auto Room(s) Select** that isn't already on it:
 - *Power Status On*: when the Apple TV wakes, for example from the Siri Remote or an iPhone.
 - *Playback Playing*: when something starts playing, for example AirPlay from a phone.
- **Auto Room Off** turns off the chosen rooms that are still on the Apple TV once it has been asleep for *30 seconds, 1 minute or 5 minutes*.

A room on one of the Apple TV's mini apps counts as being on the Apple TV: Auto Room On leaves it on the mini app, and Auto Room Off turns it off.

IR Fallback

IR fallback sends remote keys through a Control4 IR emitter when the driver can't reach the Apple TV over the network, and wakes an Apple TV from deep sleep. It uses the Apple TV's built-in Apple Remote codes, so nothing needs to be set up on the Apple TV.

1. Place an IR emitter over the IR receiver on the front of the Apple TV and connect it to a controller IR port. Keep it away from other Apple TVs, as they may respond to the same codes.
2. In **Connections**, bind the **Apple TV (Chowmain)** driver's **IR Sensor** connection to that IR port.
3. Set **IR Fallback**:
 - *Power On Only* (default): IR is only used to wake the Apple TV when it doesn't answer over the network.
 - *Enabled*: also sends remote keys over IR once the network connection has been down for **IR Fallback Delay (ms)** (10 seconds by default).
 - *Disabled*: IR is never used.
4. Run the **Send IR Code** action with *Menu* to test the emitter. A sleeping Apple TV wakes up.

While on IR fallback:

- Up, Down, Left, Right, Select, Back, Home, Play/Pause, Info, Top Menu, skip and scan work, including press and hold. Home is sent as Back held for 1 second, and skip and scan use Right and Left.
- Play and Pause both toggle playback, because the driver cannot see the play state over IR.
- Apps, mini apps, deep links, text entry, volume, Stop, Skip By, seek, shuffle, repeat, captions, user profiles, the Now Playing tab, Guide, the page keys, Siri, Screensaver and Channel Up/Down need the

network connection. They are refused and Last Error says why. A mini app selection sends the Apple TV to the Home screen instead.

- Power, display and now playing keep their last known values until the network connection returns.
- Room Off cannot put the Apple TV to sleep over IR, because IR has no sleep command. The Apple TV goes to sleep on its own (Sleep After, or HDMI-CEC when the TV turns off). Power Off Command *Home* works over IR.
- **Control Path** shows the path in use, the **IR Fallback Started** and **IR Fallback Ended** events fire, and the **IS_IR_FALLBACK** conditional and **CONTROL_PATH** variable follow it.

Opening Apps

Control4 Mini Apps (Apple TV App 1 to 50)

1. Add the Control4 mini app drivers for the apps you want, for example Netflix, to the room.
2. In **Connections**, bind each mini app to a free input from **Apple TV App 1** to **Apple TV App 50** on the Apple TV's **App Switcher**.
3. In **System Design**, set **Audio Path** to **Yes** for the App Switcher and each mini app.
4. Refresh Navigators.

Control4 mini apps don't carry Apple TV app IDs, so the driver matches each one to an installed app by name: first from a list of well-known apps, then the exact installed name, then the closest name. If a name matches two installed apps, the driver doesn't guess: Last Error names both, and a Custom App can be used to choose. Run **Display Installed Apps** to see the installed app names.

Custom Apps (Apple TV App 51 to 75)

Apple TV App - Custom App (Chowmain), included in the download, is a mini app that opens exactly the app you pick, or a deep link to content inside it. It works with any app installed on the Apple TV and uses the Apple TV driver's licence.

1. In **System Design**, add **Apple TV App - Custom App (Chowmain)** to the room with the Apple TV. Rename it to the app's name, as this is the name users see.
2. In **Connections**, bind its **Custom App** connection to a free input from **Apple TV App 51** to **Apple TV App 75** on the Apple TV's **App Switcher**. These inputs only accept Custom Apps. Control4 mini apps use Apple TV App 1 to Apple TV App 50.
3. Once the **Apple TV App** property lists the Apple TV's apps, pick the app. This fills in **Bundle ID**, and **App Name** while it still reads *Custom App*. The list needs the Apple TV to be connected. Run **Refresh App List** after installing a new app on the Apple TV.
4. Optional: set **Deep Link** to open something inside the app, such as a channel, show or profile. Keep **Bundle ID** set to the app the link opens.
5. Check that **Status** starts with *Ready*, then refresh Navigators.

Changes are used the next time the Custom App is selected, with no driver restart. To open the app every time the room turns on, set the Apple TV driver's **After Power On** to *Mini App* and **Power On Mini App** to the Custom App's input.

Selecting a Mini App

Selecting a mini app in a room turns the room on and opens its app. The room stays on the mini app, and every button pressed goes to the Apple TV, with press and hold as on the Apple TV source. The mini app source itself shows no titles or artwork.

If the Apple TV is asleep or reconnecting, the app opens once it is connected again, for up to 3 minutes. Turning the room off cancels it.

Launch Commands and Deep Links

- **Launch App** opens an installed app picked from the Apple TV's app list.
- **Launch App ID** opens an app by its bundle ID, for example `com.netflix.Netflix`. **Display Installed Apps** prints every installed app with its bundle ID in the Lua output.
- **Launch Deep Link** opens a link in its app. Web links to YouTube, Netflix titles, Prime Video and Hotstar are converted to open in their apps, and Prime Video links use the country set in the project's location. Other links, including app links such as `nf1x://`, are sent as they are. If a link can't be converted, it is sent unchanged and Last Error says why.
- When the AirPlay connection is up, the driver checks that the app opened within 10 seconds, and Last Error says so if it didn't.

Touchscreens and the Control4 App

- Opening any of the three tabs turns the room on with the Apple TV as its source. A room that is already on the Apple TV, or on one of its mini apps, stays as it is, and a sleeping Apple TV is woken.
- Halo remotes don't show the three tabs, because a Halo can't show web pages. On a Halo, use Apple TV (Traditional).
- **Volume Control** sets what the volume controls on the pages change:
 - *Room* (default): the room's own volume device (AV receiver, amplifier or TV), as Control4's own media pages do. The room's volume limits and linked rooms apply, and volume keeps working when the Apple TV is offline or on IR fallback.
 - *Apple TV*: the Apple TV's own volume, which has no mute.
 - *Off*: no volume controls.
 - Room Off is always shown.
- Search results, posters and app icons load from Apple over the internet on the touchscreen or phone. Without internet, Search still types on the TV.
- Pressing a tab fires its event: **Controls Tab Pressed**, **Apps Tab Pressed** or **Search Tab Pressed**.
- After a driver update, run **Wipe Touchscreen Cache** if a page looks out of date.

See Using the Apple TV Pages below for what users see.

Navigator Remote

The **Apple TV (Traditional)** source works with the standard Control4 remote on touchscreens, the Control4 app and Control4 remotes. Navigator long presses, and keypad buttons that send separate press and release commands, hold the button down on the Apple TV until it is let go. A held button is released automatically after **Max Hold Time** if no release arrives.

Control4 button	Apple TV
Arrows, OK / Select	Arrows and Select, including hold
Back, Cancel, Menu, Exit	Back
Home	Home (the TV button)
Guide	The key set in Guide Button (<i>Guide</i> by default), after firing Guide Button Pressed
Info	The key set in Info Button (<i>Info (hold Select)</i> by default), after firing Info Button Pressed
CC	Captions on or off, where the Apple TV allows it
Play	Smart Play (see Play Behaviour)
Pause	Pause
Stop	Stop, or Pause when the app has no Stop
Skip forward / back	Skip 10 seconds
Fast forward / Rewind	Scrub while held, one step when tapped
Page Up / Down, Channel Up / Down	Page Up / Down, Channel Up / Down
Number keys, *, # and -	Typed into the selected text field
Red, Green, Yellow, Blue, DVR, Input	The key set in the matching Remote Buttons property, after firing its event
Mute, Record, Eject, PIP, Aspect, Presets, direct channel entry	Not available on Apple TV. Last Error says so

Programming Examples

- **Lights for movies:** on the **Playback Started** event dim the lights, on **Playback Paused** raise them to 50%, and on **Playback Stopped** restore them.
- **Open an app from a keypad button:** use the **Launch App** command and pick the app, or **Launch Deep Link** to go straight to a channel or show.

- **Colour buttons:** leave **Red Button** set to *Event Only* and program the **Red Button Pressed** event.
- **App-specific actions:** use the **CURRENT_APP** conditional with the app's name or bundle ID, for example *Netflix* or *com.netflix.Netflix*.
- **Alert when the Apple TV needs pairing:** program the **Pairing Required** event to send a notification.

Driver Configuration

Actions

- **Discover Device:** Looks for Apple TVs each time its **Apple TV** list opens. Running it with an Apple TV picked fills in **Apple TV IP Address** and starts pairing if the driver isn't paired yet. Running it with nothing picked prints the Apple TVs that answered in the Lua output.
- **Pair (Companion + AirPlay):** Pairs both protocols, one after the other.
- **Pair Companion Only:** Pairs the Companion protocol (remote, power, apps and text) again.
- **Pair AirPlay Only:** Pairs the AirPlay protocol (now playing) again.
- **Enter Pairing Code:** Sends the 4-digit code shown on the TV during pairing.
- **Reconnect:** Reconnects both protocols straight away, without waiting for the next retry.
- **Display Installed Apps:** Prints every installed app with its bundle ID in the Lua output.
- **Send IR Code:** Sends an IR code through the IR Sensor connection, whatever IR Fallback is set to. Pick *Menu, Select, Play/Pause, Up, Down, Left, Right* or *Center (white remote)*, or pick *Raw Pronto code* and fill in **Pronto Code**. Use it to test the emitter.
- **Wipe Touchscreen Cache:** Makes touchscreens and the Control4 app reload the Apple TV pages.
- **Display Diagnostics:** Shows core diagnostics for this driver instance.
- **Display Related Diagnostics:** Shows diagnostics for this driver and related drivers.
- **Display Extended Diagnostics:** Runs extended diagnostics for deeper troubleshooting.
- **Submit Diagnostics:** Submits diagnostic data to Chowmain support.

Commands

- **Send Remote Key:** Sends a Siri Remote key or media command: *Up, Down, Left, Right, Select, Back (Menu), Home (TV), Home Hold (Control Center), Control Center, App Switcher, Top Menu, Info (hold Select), Volume Up, Volume Down, Play/Pause, Play/Pause Hold, Play, Pause, Stop, Skip Forward, Skip Back, Next Track, Previous Track, Fast Forward Start, Fast Forward Stop, Rewind Start, Rewind Stop, Channel Up, Channel Down, Guide, Page Up, Page Down, Siri, Screensaver, Sleep* or *Wake*. **State** says how the key is pressed:
 - *Tap* (default): pressed and released.
 - *Long Press*: held for 1 second.
 - *Down*: held until a Send Remote Key with *Up* for the same key, or until **Max Hold Time**. Use *Down* on a keypad button's press and *Up* on its release.
 - *Up*: releases a key held with *Down*.
 - Keys that are already a fixed sequence (*Home Hold (Control Center), Control Center, App Switcher, Top Menu, Info (hold Select), Play/Pause Hold, Sleep, Wake*) and the media commands run once for *Tap, Long Press* and *Down*.

- Skip By: Skips forward (positive) or back (negative) by -600 to 600 seconds.
- Seek To: Jumps to a position, 0 to 36000 seconds. Needs AirPlay.
- Set Shuffle: *Off*, *Albums* or *Songs*. Needs AirPlay.
- Set Repeat: *Off*, *Track* or *All*. Needs AirPlay.
- Launch App: Opens an installed app, picked from the Apple TV's app list.
- Launch App ID: Opens an app by its bundle ID.
- Launch Deep Link: Opens a link (URL) in its app.
- Set Text: Replaces the text in the selected text field on the Apple TV.
- Append Text: Types text at the end of the selected text field.
- Clear Text: Clears the selected text field.
- Set Volume: Sets the Apple TV's volume, 0 to 100. This only works when the Apple TV controls the volume itself. When it only passes volume up and down to the TV, use Volume Up and Volume Down.
- Volume Up: Sends the Apple TV's volume up key, with the same **State** as Send Remote Key.
- Volume Down: Sends the Apple TV's volume down key, with the same **State** as Send Remote Key.
- Next Track: Skips to the next track.
- Toggle Captions: Turns captions on or off, where the Apple TV allows it.
- Wake: Wakes the Apple TV.
- Sleep: Puts the Apple TV to sleep.
- Switch User: Switches the Apple TV to another user profile, picked from its list of users.
- Reconnect: Reconnects both protocols straight away.
- Send IR Code: Sends an IR code or raw Pronto code through the IR Sensor connection.

Properties

- Cloud Status: Read-only cloud connectivity and service state for this driver.
- Driver Version: Read-only driver build/version currently installed.
- Automatic Updates: Enables or disables automatic driver updates.
- Control4 MAC Address: Optional controller MAC reference used by some workflows.
- Debug Mode: Enables or disables debug logging.
- Debug Level: Sets logging verbosity/detail.
- Error Reporting: Controls submission of diagnostic/error telemetry.

Setup:

- Apple TV IP Address: IPv4 address of the Apple TV. Filled in by Discover Device, or type it in. The driver updates it when the Apple TV moves (see Address Repair).
- Address Repair: How the driver finds the Apple TV after its address changes. See When the Apple TV's Address Changes.
 - Automatic: This subnet, and the Apple TV's old /24 range when it is on another subnet (default).
 - This Subnet Only: This subnet only.
 - Off: Never follows a new address.
- Pairing Status: Read-only pairing progress, or how many Apple TVs Discover Device found.

- Volume Control: Selects what the volume controls on the touchscreen pages change.
 - Room: The room's own volume device, with mute (default).
 - Apple TV: The Apple TV's own volume, without mute.
 - Off: No volume controls on the pages.

Device:

- Device Name: Name of the Apple TV.
- Model: Model reported by the Apple TV.
- tvOS Version: tvOS version reported by the Apple TV.
- MAC Address: MAC address of the Apple TV, used for Wake On LAN. Filled in by the driver once it has connected to the Apple TV, from the controller's own network table, because newer tvOS versions advertise a randomised address instead of the real one. Type a MAC address to use that one instead; clear it to go back to the driver's.
- Companion Port: Read-only Companion port in use.
- AirPlay Port: Read-only AirPlay port in use.

Status:

- Companion Paired: Read-only Companion pairing state: *Not Paired*, *Paired* or *Rejected* - *re-pair*.
- AirPlay Paired: Read-only AirPlay pairing state: *Not Paired*, *Paired* or *Rejected* - *re-pair*.
- Companion Connection: Read-only Companion connection state, for example *Connected*, *Connecting*, *Not paired*, *Unreachable* or *Disconnected*, with the reason and the time it changed.
- AirPlay Connection: Read-only AirPlay connection state, as above.
- Control Path: Read-only path remote keys take: over the network, reconnecting, IR fallback, or no control with the reason.
- Power Status: Read-only power state: *On* or *Off*.
- Display State: Read-only display state: *asleep*, *screensaver*, *idle* (Home screen) or *awake* (an app is showing).
- Play State: Read-only play state, for example *playing*, *paused*, *stopped* or *idle*.
- Current App: Read-only name and bundle ID of the app on screen.
- Now Playing: Read-only title and artist of what is playing.
- Volume Status: Read-only Apple TV volume, when it reports one.
- Last Error: Read-only last problem, in plain English, with what to do about it.

Power:

- Power Feedback: Selects how power state feedback is used.
 - Default: Uses the Apple TV's own power state.
 - Ignore Feedback: Power follows Control4's on and off commands only.
- Power On Command: Command sent when the room turns on.
 - Wake: Wakes the Apple TV (default).
 - Wake + Wake On LAN: Also sends a Wake On LAN packet (Ethernet only).
 - Do Nothing: Sends nothing.

- Power On Delay: Delay in milliseconds (0-30000) before the Power On Command.
- After Power On: Action run 1.5 seconds after waking: *Do Nothing* (default), *Home*, *Play* or *Mini App*. It doesn't run when the room was turned on by selecting a mini app.
- Power On Mini App: App Switcher input (Apple TV App 1 to Apple TV App 75) opened when After Power On is *Mini App*. Only shown when After Power On is *Mini App*.
- Power Off Command: Command sent when the room turns off: *Sleep* (default), *Home* or *Do Nothing*.
- Power Off Delay: Delay in milliseconds (0-30000) before the Power Off Command.
- Auto Power On Room: Condition that turns the chosen rooms on with the Apple TV: *Disabled* (default), *Power Status On* or *Playback Playing*.
- Auto Room(s) Select: Rooms used by Auto Power On Room and Auto Room Off.
- Auto Room Off: Turns off the chosen rooms still on the Apple TV after it has been asleep for 30 seconds, 1 minute or 5 minutes. *Disabled* by default.

IR:

- IR Fallback: When IR is used through the IR Sensor connection.
 - Enabled: Wakes the Apple TV and sends remote keys over IR when the network connection is down.
 - Power On Only: Only wakes the Apple TV over IR (default).
 - Disabled: IR is never used.
- IR Fallback Delay (ms): How long the network connection must be down before remote keys go over IR, 2500 to 120000 (default 10000).
- IR Status: Read-only IR state: *Not Bound*, *Bound*, or the last code sent and when.

Remote Buttons:

- Play Behaviour: What the Play button does.
 - Smart: Wakes the screensaver or resumes playback, using the best command for the app on screen (default).
 - Resume only: Always sends Play.
- Max Hold Time: Seconds (1-60, default 5) after which a held button is released if no release arrives.
- Red Button: Apple TV key sent by the red button. *Event Only* by default.
- Green Button: Apple TV key sent by the green button. *Event Only* by default.
- Yellow Button: Apple TV key sent by the yellow button. *Event Only* by default.
- Blue Button: Apple TV key sent by the blue button. *Event Only* by default.
- DVR Button: Apple TV key sent by the DVR button. *Event Only* by default.
- Input Button: Apple TV key sent by the Input button. *Home (TV)* by default.
- Guide Button: Apple TV key sent by the Guide button. *Guide* by default. Choose *Home (TV)* to match Control4's own Apple TV driver.
- Info Button: Apple TV key sent by the Info button. *Info (hold Select)* by default.

Each Remote Buttons key can be *Event Only* (sends nothing, so the button is left to programming), *Up*, *Down*, *Left*, *Right*, *Select*, *Back (Menu)*, *Home (TV)*, *Home Hold (Control Center)*, *Control Center*, *App Switcher*, *Top Menu*, *Info (hold Select)*, *Volume Up*, *Volume Down*, *Play/Pause*, *Play/Pause Hold*, *Channel Up*, *Channel Down*, *Guide*,

Page Up, Page Down, Siri, Screensaver, Sleep or Wake. The button's event fires whatever it is set to. A Navigator long press on Guide or Info holds the key until it is let go.

Events

- Address Changed: The Apple TV moved to a new address and the driver followed it.
- App Changed: The app on screen changed.
- App Shown: An app is showing.
- Apps Tab Pressed: The Apple TV Apps tab was pressed.
- Blue Button Pressed: The blue button was pressed.
- Controls Tab Pressed: The Apple TV (Advanced) tab was pressed.
- Display State Changed: The display state changed.
- DVR Button Pressed: The DVR button was pressed.
- Green Button Pressed: The green button was pressed.
- Guide Button Pressed: The Guide button was pressed.
- Hold Timed Out: A held button was released by Max Hold Time.
- Home Displayed: The Home screen is showing.
- Info Button Pressed: The Info button was pressed.
- Input Button Pressed: The Input button was pressed.
- IR Fallback Ended: Remote keys are going over the network again.
- IR Fallback Started: Remote keys are going over IR.
- Keyboard Hidden: The Apple TV no longer wants text.
- Keyboard Shown: A text field on the Apple TV is selected.
- Network Closed: The Companion connection closed.
- Network Connected: The Companion connection opened.
- Now Playing Changed: The title or artist changed. The same title coming back, for example after the connection to the Apple TV dropped and recovered, doesn't fire it again.
- Pairing Required: The Apple TV rejected the stored pairing, a different Apple TV answers at an address you typed, or the paired Apple TV seems to have been replaced or reset.
- Playback Paused: Playback paused.
- Playback Started: Playback started.
- Playback Stopped: Playback stopped.
- Powered Off: The Apple TV went to sleep.
- Powered On: The Apple TV woke up.
- Red Button Pressed: The red button was pressed.
- Screensaver Started: The screensaver started.
- Search Tab Pressed: The Apple TV Search tab was pressed.
- Yellow Button Pressed: The yellow button was pressed.

Conditionals

- IS_PLAYING: Playback is playing.
- IS_PAUSED: Playback is paused.

- IS_ASLEEP: The Apple TV is asleep.
- IS_CONNECTED: The Companion connection is up.
- KEYBOARD_ACTIVE: A text field on the Apple TV is selected.
- CURRENT_APP: The current app's name or bundle ID equals (or doesn't equal) a value.
- IS_IR_FALLBACK: Remote keys are going over IR.

While on IR fallback, the other conditionals use the last known values.

Variables

- POWER_STATE: *on* or *off*.
- DISPLAY_STATE: *asleep*, *screensaver*, *idle* (Home screen) or *awake* (an app is showing).
- PLAY_STATE: For example *playing*, *paused*, *stopped* or *idle*.
- CURRENT_APP: Name of the app on screen.
- CURRENT_APP_ID: Bundle ID of the app on screen.
- TITLE, ARTIST, ALBUM, SERIES, SEASON, EPISODE: What is playing.
- MEDIA_TYPE: Type of media reported by the app, for example *music* or *video*.
- DURATION: Length of what is playing, in seconds.
- POSITION: Playback position in seconds, updated every 5 seconds while playing.
- KEYBOARD_ACTIVE: True while a text field on the Apple TV is selected.
- KEYBOARD_TEXT: Text in the selected text field.
- VOLUME: Apple TV volume (0-100), when it reports one.
- CONNECTED: True while the Companion connection is up.
- LAST_LAUNCHED_APP: Last app the driver opened.
- CONTROL_PATH: Path remote keys take: *ip*, *waiting* (reconnecting), *ir* or *none*.

Custom App Driver Configuration

These are the actions, commands and properties of **Apple TV App - Custom App (Chowmain)**.

Actions

- Launch App: Opens the app or deep link on the Apple TV it is bound to, without changing the room's source.
- Refresh App List: Asks the Apple TV driver for its installed apps again.
- Display Diagnostics: Shows core diagnostics for this mini app.
- Display Related Diagnostics: Shows diagnostics for this mini app and related drivers.
- Submit Diagnostics: Submits diagnostic data to Chowmain support.

Commands

- Launch App: Opens the app or deep link without changing the room's source. From programming it opens on every Apple TV the Custom App is bound to.

- Passthrough: *Default* and *Enabled* leave the room where it is. *Disabled* selects the Apple TV in the room the command came from.

Properties

- Cloud Status, Driver Version, Automatic Updates, Control4 MAC Address, Debug Mode, Debug Level, Error Reporting: As for the Apple TV driver.
- App Name: Name used in the Apple TV driver's messages and its `LAST_LAUNCHED_APP` variable.
- Apple TV App: Apps installed on the bound Apple TV, as *name - bundle ID*. Picking one fills in Bundle ID. It doesn't open the app.
- Bundle ID: tvOS bundle ID of the app to open, for example `com.netflix.Netflix`.
- Deep Link: Optional link opened instead of the app, for content inside it. Links are converted as for the Launch Deep Link command.
- Connected To: Read-only Apple TV and input the Custom App is bound to, for example *Living Room Apple TV, Apple TV App 53*.
- Status: Read-only *Ready* and what it opens, or why it isn't ready.

Status Messages

Status	What to do
Not bound	Bind the Custom App connection to an input from Apple TV App 51 to Apple TV App 75 on the Apple TV's App Switcher
Not set	Pick an Apple TV App, or enter a Bundle ID or Deep Link
... isn't a bundle ID/ isn't a link	Correct the property. A bundle ID looks like <code>com.netflix.Netflix</code> , and a link starts with a scheme such as <code>https://</code> or <code>nf1x://</code>
... isn't installed on ...	Install the app on that Apple TV from the App Store, then run Refresh App List

While the **Apple TV App** list reads *Waiting for the Apple TV's app list*, the Apple TV driver isn't connected yet. Check its **Companion Connection**.

Problems while opening the app, for example the Apple TV not being connected, appear in the Apple TV driver's **Last Error**.

Using the Apple TV Pages

This section is for the people using the system. It covers the Apple TV pages on Control4 touchscreens and in the Control4 app.

Each room with the Apple TV has three tabs: **Apple TV (Advanced)**, **Apple TV Apps** and **Apple TV Search** (your installer may have renamed or hidden some of them). They all open the same page, at Controls, Apps or Search. Opening the page turns the room on with the Apple TV, and wakes the Apple TV if it is asleep. Halo remotes don't show these tabs: choose the Apple TV under Watch instead.

The tabs along the top are **Controls**, **Apps**, **Search** and **Now Playing**. On tablets and touchscreens, the right end shows the Apple TV's status (for example *On*, *Asleep*, *Offline*, *IR only* or *Not paired*) and the **Room Off** button. On phones, Room Off is the power button at the end of the tabs.

Controls

- The button bar has **HOME**, **BACK**, **GUIDE**, **INFO**, **CC**, **APPS** and **MORE**. On phones **GUIDE** is in **MORE**.
 - **HOME** goes to the Home screen. Hold it for Control Center, or press it twice for the app switcher.
 - **BACK** goes back. Hold it for the app's top menu.
 - **INFO** shows information and options for what is playing.
 - **CC** shows the subtitle and audio choices when the app shares them, and otherwise turns captions on or off.
 - **APPS** opens the Apple TV's app switcher.
 - **MORE** has Top Menu, Control Center, Page Up, Page Down, Screensaver, Stop, Captions on/off, Sleep or Wake Apple TV, the programmable buttons with what each one is set to, and **Setup**: pairing, and which Apple TV this is.
- **D-PAD** and **GESTURE** switch between a D-pad and a touch surface. On the touch surface, swipe to move and tap to select, as on the Siri Remote. Each phone or touchscreen remembers its choice.
- Hold **SELECT** for options and menus, and hold an arrow to scroll quickly.
- **TYPE** lights up when an app on the Apple TV asks for text. Tap it to type.
- **VOL** changes the room's volume, and **CH** changes channel in live TV apps.
- The transport row has rewind, skip back, play/pause, skip forward and fast forward. Hold rewind or fast forward to scrub, and let go to stop. For music, the skip buttons go to the previous and next track.
- Below them are mute, the red, green, yellow and blue buttons, and the room's volume.
- On tablets and touchscreens, what is playing shows beside the controls, with its progress, **Subtitles** and **Audio** buttons, and what is up next. On phones, tap the bar at the bottom to open it full screen.

Apps

- The apps on the room's App Switcher show first, then **All apps**. The app on screen is marked *Now playing*.
- Tap an app to open it on the TV. The page goes back to Controls.
- Type in **Filter apps** to find an app. If no installed app matches, **Search the App Store** opens the App Store on the Apple TV with that name searched. Pick the app on the TV and choose **Get**.
- **Profiles** switches the Apple TV to another user, when it has more than one.

Search

- Type in the search box. To dictate, use the microphone on your phone's keyboard. Results from the Apple TV app show with posters. **All**, **Movies**, **TV Shows** and **Apps** filter them.

- Each result shows where it can be watched. A tick means the app is installed. Tap a result, then **Play** to open it in that app on the TV.
- **Also type on the TV** (**TV too** on phones) types the same text into Search on the Apple TV, with a D-pad to pick a result there. Turn it off to only browse on the page.

Now Playing

Now Playing shows the play queue, chapters, and audio and subtitle choices, when the app shares them. Music, Podcasts and the TV app usually do. Tap an item to play it, if the app allows it.

Volume, Mute and Room Off

- Volume and mute control the room the page is in, through the room's AV receiver, amplifier or TV, so the room's volume limits apply. They keep working when the Apple TV is offline.
- The room's name shows with the volume. Tap it to choose another room. Only rooms that can play the Apple TV's sound are listed, with rooms watching this Apple TV first.
- Drag the volume slider's button to set a level. Tap the line to the left of it to turn the volume down by one, or to the right to turn it up by one.
- Rooms that only step volume up and down show – **VOLUME** + instead of a slider.
- **Room Off** asks first, then turns the whole room off. The Apple TV's own Sleep and Wake are in **MORE**.

Typing and Voice

- When an app on the Apple TV asks for text, every open page offers to type it, with the text already in the field. The page you are using opens the keyboard by itself.
- In the Control4 app on a phone, use the microphone on the phone's keyboard to dictate.
- The number keys on Control4 remotes also type into the selected text field.

When the Apple TV Is Offline

- The status shows *Connecting* or *Offline*, and the page offers **Reconnect**.
- On *IR only*, the keys that work over IR stay available and the rest are greyed out. Apps, typing and Now Playing come back when the Apple TV reconnects.
- Room volume, mute and Room Off keep working.

When the Apple TV Isn't Paired

- The page shows **This Apple TV isn't paired with Control4 yet** with **Pair**, for example after the Apple TV was reset. Room volume, mute and Room Off keep working.
- Make sure the TV is on, then tap **Pair**. The Apple TV shows a 4-digit code: type it on the page's number pad. A second code follows, for now playing. **Skip** leaves now playing for later.
- If pairing was started somewhere else, tap **Enter code** on the banner and type the code shown on the TV.

- To pair again later, open **MORE** on the **Controls** tab and tap **Pair again**.

Troubleshooting

When troubleshooting, start with the **Last Error** property. It explains the last problem in plain English and what to do about it. Then run **Display Diagnostics** to see the traffic lights, or **Display Extended Diagnostics** for deeper checks. **Submit Diagnostics** sends the details to Chowmain support.

For the latest troubleshooting tips, known issues and fixes, see our Knowledge Base:

<https://help.chowmain.software/portal/en/kb>. It is updated regularly with troubleshooting guides, tips and resolutions for Chowmainsoft drivers and integrations.

Discover Device finds no Apple TVs ("No Apple TVs answered")

- Check the Apple TV is powered on and connected to the same network (subnet) as the Control4 controller. Discover Device can't find Apple TVs on other subnets or VLANs: type the address instead. Once it has connected, the driver can still follow it to a new address in the same /24 range (Address Repair).
- Make sure multicast (mDNS) traffic is allowed between the controller and the Apple TV.
- Type the Apple TV's IP address into **Apple TV IP Address**, then run **Pair (Companion + AirPlay)**.

"This Apple TV only allows pairing from people in its Home"

- On the Apple TV, open **Settings > AirPlay and Apple Home > Allow Access (AirPlay and HomeKit on older tvOS versions)** and choose **Anyone on the Same Network** or **Everyone**.
- Then pick the Apple TV in **Discover Device** again, or run **Pair (Companion + AirPlay)**.

No code appears on the TV, or "No pairing is waiting for a code"

- Run a pairing action first, or pick the Apple TV in **Discover Device**, then enter the code while the TV is showing it.
- If the TV shows no code, check the Allow Access setting above, and that the Apple TV is awake and showing on the TV.
- Enter only the 4 digits shown on the TV.
- A pairing is cancelled if no code is entered within 5 minutes. Run the pairing action again.

"The ... pairing code on the TV timed out"

- Nobody typed the code within 5 minutes, so the Apple TV's code expired. Start pairing again (a pairing action, or **Pair** or **Try again** on the Apple TV page) and type the new code while the TV shows it.

"The ... pairing code was not accepted"

- Run the pairing action again, or tap **Try again** on the Apple TV page, and type the new code shown on the TV. Each code can only be used once.

- On the page, **Try again** asks only for the code that failed. A remote already paired isn't asked for again.

"The Apple TV asked to wait ... seconds before pairing again"

- After several wrong codes the Apple TV blocks pairing for a while. Wait for the time shown, then pair again.

"Rejected - re-pair", or the Pairing Required event fires

- The pairing was removed on the Apple TV (under **Settings > Remotes and Devices**), or the Apple TV was reset. Last Error says ... *its pairing identity has changed (was it reset?)* when the Apple TV is the same one but no longer knows the pairing.
- Run **Pair Companion Only** or **Pair AirPlay Only**, as Last Error says, or tap **Pair** on the Apple TV page.

"A different Apple TV ('..') now answers at ...", or "Another device ('..') now answers at ..."

- Another Apple TV, or another device such as a TV or speaker, now has the address this one used, for example after two Apple TVs swapped DHCP addresses. The driver doesn't treat this as a rejected pairing: it looks for its own Apple TV on the network and follows it when found.
- If it isn't found within 10 minutes, Last Error says *The paired Apple TV ... hasn't been seen for 10 minutes ...* and **Pairing Required** fires. Check the Apple TV is on and connected. If it was replaced, pair the new one.
- Give each Apple TV a DHCP reservation so this can't happen.

"... is a different Apple TV ('..') from the one this driver is paired with", or "... is another device ('..'), not the Apple TV this driver is paired with"

- The address typed into **Apple TV IP Address** belongs to another Apple TV, or to another device. Type the paired Apple TV's address (Last Error gives it when the driver can see it), or, if it is an Apple TV, pair it with **Pair (Companion + AirPlay)**.

"Nothing answers at The paired Apple TV ... answers at ..."

- The typed address is wrong or out of date, and the driver can see the paired Apple TV at another address. A typed address that has never worked is never changed by the driver: type the address it gives, or pick the Apple TV in **Discover Device**.

"The Apple TV has a self-assigned address (169.254...)"

- The Apple TV isn't getting an address from the router. Check its network cable or Wi-Fi, and the router's DHCP.

The Apple TV page says "This Apple TV is already paired"

- **Pair** on the page only pairs an Apple TV that isn't paired. To pair a working Apple TV again, open **MORE** on the **Controls** tab and tap **Pair again**.

The Apple TV page says "The driver doesn't know this Apple TV's address yet"

- The page can't set the address. Run **Discover Device** in Composer, or type the address into **Apple TV IP Address**.

Companion Connection shows Unreachable or Disconnected

- Check the Apple TV is powered on and connected to the network, and that **Apple TV IP Address** is correct.
- The driver retries by itself, waiting longer between attempts (up to 5 minutes). Run **Reconnect** to try again straight away.
- If the Apple TV's address changes, the driver finds it again and Last Error says *The Apple TV moved from ... to ...; the driver followed it*. While it is looking, **Companion Connection** ends with *looking for it on the network*. A typed address is only followed once the driver has connected to it, so correct a wrong address or use **Discover Device**. See When the Apple TV's Address Changes in Setup.
- An Apple TV in deep sleep stops answering on the network. See the next section.

"The Apple TV did not wake within 3 minutes"

- Check the Apple TV is powered on and connected to the network.
- Wake On LAN only works over Ethernet. Check that **MAC Address** is filled in. The driver fills it in with the Apple TV's real MAC address once it has connected on the controller's own network; on a routed network, type it in.
- Over Wi-Fi, set **Settings > General > Sleep After** to **Never** on the Apple TV, or bind the **IR Sensor** connection to an emitter on the Apple TV. IR Fallback set to *Power On Only* wakes it from deep sleep.

No titles, artwork, play state or current app

- These come from the AirPlay connection. Check that **AirPlay Paired** reads *Paired* and **AirPlay Connection** reads *Connected*. If AirPlay isn't paired, run **Pair AirPlay Only**.
- Commands that need AirPlay, such as Seek To, Set Shuffle and Set Repeat, say *... needs the AirPlay (now playing) connection* in Last Error.
- Some apps don't share what they are playing.
- Artwork shows when the app shares a link to it, as the Apple TV and Music apps do, and for Spotify, where the driver finds it online. Other apps show their app icon instead.

An app shows as the Home screen

- The Apple TV reports the Home screen and an open app the same way, so the driver uses the AirPlay now playing information to tell them apart. An app that shares no now playing information, such as Settings, shows as the Home screen (Display State *idle*).

"... did not open on the Apple TV within 10 seconds", or "... isn't installed on this Apple TV"

- Check the app is installed and signed in on the Apple TV. Run **Display Installed Apps** to see what is installed.
- Install a missing app from the App Store on the Apple TV.

"Could not launch ...: no Apple TV app matches the mini app ..."

- The Control4 mini app's name doesn't match an installed app. Check the app is installed with **Display Installed Apps**.
- To choose the app exactly, use a Custom App on Apple TV App 51 to Apple TV App 75 instead.

"Could not launch ...: ... matches both ... and ..."

- The mini app's name matches two installed apps, so the driver doesn't guess. Use a Custom App to choose the app.

A deep link opens the app but not the content

- Not every app supports links to content on Apple TV.
- If Last Error says ... *rewrite skipped: ...; the link was sent unchanged*, the web link couldn't be converted. For example, Netflix links need a title number, and Prime Video links need a `gti=` value.

"Setting an exact volume needs the Apple TV to control the volume itself"

- The Apple TV only passes volume up and down on to the TV or AV receiver, so an exact level can't be set. Use **Volume Up** and **Volume Down**, or control the room's volume device.
- The touchscreen pages control the room's volume by default (**Volume Control** set to *Room*).

"... is not available on Apple TV"

- Mute, Record, Eject, Picture in picture, Aspect ratio, Presets and direct channel entry have no Apple TV equivalent. Use the room's AV receiver or TV for mute.

"Number keys type into a text field on the Apple TV; none is selected right now"

- Select a text field on the Apple TV first, for example a search box.

Text is not typed on the Apple TV

- Text entry needs the Companion connection. Check **Companion Connection** reads *Connected*.
- A text field must be selected on the Apple TV. The **KEYBOARD_ACTIVE** variable is true while one is.

Keys are refused with "... needs the network connection to the Apple TV; it is on IR fallback"

- The driver is on IR fallback and that key or command can't be sent over IR. It works again when the network connection returns.

Keys are refused with "... the Apple TV is not connected and IR Fallback is ..."

- The Apple TV isn't connected over the network, and IR fallback isn't set up to send keys. Check the Apple TV's network connection.
- To keep the remote working during network problems, set **IR Fallback** to *Enabled* and bind the **IR Sensor** connection.

The IR traffic light is orange

- **IR Fallback** is *Enabled* or *Power On Only*, but the **IR Sensor** connection isn't bound. Bind it to a controller IR port with an emitter on the front of the Apple TV, or set **IR Fallback** to *Disabled*.

IR does nothing

- Run **Send IR Code** with *Menu*. A sleeping Apple TV should wake up.
- Check the emitter is over the IR receiver on the front of the Apple TV, and that the **IR Sensor** connection is bound to that IR port. **IR Status** shows the last code sent.

"Room Off could not put the Apple TV to sleep"

- There is no network connection, and IR has no sleep command. The Apple TV goes to sleep on its own (Sleep After, or HDMI-CEC when the TV turns off).

"... was blocked: the driver licence is not valid"

- The trial has ended or the licence isn't valid. Discovery, pairing and status keep working, but control is blocked. See the Licensing section.

The Apple TV pages are out of date after a driver update

- Run the **Wipe Touchscreen Cache** action, or close and reopen the page.

The Apple TV page says "The Apple TV page couldn't start" or "The Apple TV page stopped"

- Tap **Reload**. If the message comes back, run the **Wipe Touchscreen Cache** action and open the page again.
- If it still shows, run **Display Extended Diagnostics** and send Chowmain support the **pages that didn't start** result under Webview. It lists what the page reported on each kind of touchscreen and phone.

The page shows "Choose a room for volume"

- The page couldn't tell which room it is in, for example when it was opened from Favorites. Tap it and pick the room. The page remembers the room on that touchscreen or phone.

A room is missing from the room list on the Apple TV page

- The list only shows rooms that can play the Apple TV's sound: rooms where the Apple TV appears in Watch or Listen, plus any room watching it now. Check the room's audio path to the Apple TV in Composer's Connections.

Search says "The catalogue could not be reached from this screen"

- The touchscreen or phone couldn't reach Apple over the internet. Check its internet connection. Search still types on the TV.

Search the App Store opens the App Store without searching

- Open the App Store on the Apple TV once and finish any sign-in or terms prompt, then try again.

A Custom App's Status isn't Ready

- See Status Messages under Custom App Driver Configuration in the Setup section.

What are the Requirements for this driver?

- Control4 OS 4.0 or newer. Earlier Control4 OS versions are not supported.
- Control4 HC-XXX Series controllers are not supported.
- Apple TV 4K (any generation) or Apple TV HD running tvOS 16 or later, on the network and reachable by the Control4 controller.
- The touchscreen pages need Control4 T4 or T5 touchscreens, or the Control4 app for iOS or Android.

Why is this product so exciting?

- Fast and reliable bi-directional IP control of the Apple TV, with no bridges, third-party apps or cloud services required.
- The remote works like the Siri Remote, with real press and hold, so holding Select, Home or the arrows does exactly what it does on the Siri Remote.
- Real-time feedback of power, playback, the current app and what is playing, with artwork, on Control4 touchscreens, remotes and the Control4 app. Feedback can be used for automation. For example, lights can dim when playback starts and raise when it is paused.
- Auto Room On turns the room on and selects the Apple TV when someone picks up the Siri Remote or starts AirPlay from their phone.
- Touchscreen pages that match Control4's own interface, with a full remote, every installed app, search across the Apple TV app's catalogue and typing straight onto the Apple TV.
- Apps open from Navigator through Control4 mini apps or the included Custom App driver, which can also open a deep link straight to a channel or show.
- IR fallback keeps the Apple TV usable during network problems and wakes it from deep sleep.

What devices work with this driver?

Apple TV 4K (all generations) and Apple TV HD running tvOS 16 or later. Older Apple TV models that don't run tvOS are not supported.

Do I need to pair both Companion and AirPlay?

Companion is required. It carries the remote, power, apps and text entry. AirPlay is optional but recommended: without it, titles, artwork, play state, the current app, the Now Playing tab, and the Seek, Shuffle and Repeat commands are not available.

Does the driver need the internet or a cloud service?

No. Control and feedback run locally between the controller and the Apple TV. Internet access is only used for licensing, for app icons, and for the catalogue search and posters on the touchscreen pages. Without internet, Search still types on the TV.

Where does the driver appear on the Apple TV?

Under **Settings > Remotes and Devices > Remote App and Devices**, as **Control4** followed by the room name.

Can I use more than one Apple TV in a project?

Yes. Add one Apple TV driver for each Apple TV and pair each one.

Does it work with an Apple TV on Wi-Fi?

Yes. Ethernet is recommended, because Wake On LAN only works over Ethernet. Over Wi-Fi, set **Sleep After** on the Apple TV to **Never**, or use an IR emitter to wake it from deep sleep.

How do I open apps from Control4?

- Bind Control4 mini apps to Apple TV App 1 to Apple TV App 50 on the App Switcher. They are matched to installed apps by name.
- Bind the included **Apple TV App - Custom App (Chowmain)** to Apple TV App 51 to Apple TV App 75 to open an exact app, or a deep link inside it.
- Use the **Launch App**, **Launch App ID** and **Launch Deep Link** commands in programming.
- Users can open any installed app from the **Apple TV Apps** page.

Why use the Custom App instead of a Control4 mini app?

Control4 mini apps carry no Apple TV app IDs, so the driver has to match them by name, and they only exist for apps in Control4's catalogue. A Custom App opens exactly the app you pick from the Apple TV's installed apps, works with any app, and can open a deep link to a channel, show or profile inside the app.

Can I launch content directly?

Yes. Use the **Launch Deep Link** command, or set **Deep Link** on a Custom App. Web links to YouTube, Netflix titles, Prime Video and Hotstar are converted to open in their apps. Content links only work in apps that support them.

Can Control4 control the volume through the Apple TV?

The Apple TV passes volume up and down on to the TV or AV receiver over HDMI-CEC or IR, and the driver can send those keys. An exact level can only be set when the Apple TV controls the volume itself. The touchscreen pages control the room's own volume device by default, so the room's volume limits and linked rooms apply.

Does mute work?

The Apple TV has no mute. The mute button on the touchscreen pages mutes the room's AV receiver, amplifier or TV.

What is IR fallback, and do I need it?

IR fallback uses a Control4 IR emitter on the Apple TV when the driver can't reach it over the network. Set to *Power On Only* (the default), it wakes the Apple TV from deep sleep. Set to *Enabled*, it also keeps the remote working during network problems. It is optional but recommended, especially for Apple TVs on Wi-Fi. Set **IR Fallback** to *Disabled* if you don't use an emitter.

Can I use Siri?

Control4 can't pass voice to Siri. Instead, on the Search page in the Control4 app, users can dictate with the microphone on the phone's keyboard, and the words are typed into the Apple TV's search.

Do I need to pair again after a driver update or a controller replacement?

No. Pairings are kept through driver updates and reboots, and when a project backup is restored onto a replacement controller.

I'm replacing another Apple TV driver. Can I keep my programming?

No. This driver's events, commands and connections are different, so recreate the programming, rebind the mini apps to the App Switcher, and pair the Apple TV with this driver.

How do I remove the driver's pairing from the Apple TV?

On the Apple TV, open **Settings > Remotes and Devices > Remote App and Devices**, select the Control4 entry and remove it. To pair again, run **Pair (Companion + AirPlay)**.

Do you offer any other cool drivers?

Control4 is a major part of our business. We develop new drivers all the time. You can see all of our drivers on our website (<https://chowmain.software>). Sign up to our newsletter to get notified when new drivers are released.

I want to try this driver out before buying it?

- All Chowmain drivers for Control4 come with a 90 day trial.

Licensing

Marketplace

To Purchase drivers

Chowmain Drivers are only available to authorized dealers. Integrators can sign up to a Chowmain account via the [Chowmain Website](#). Authorization of dealers can take up to 48 hours; however, you can trial the drivers without an account.

1. Navigate to the login page of Chowmain website: [Chowmain - Login](#)
2. Sign in using credentials provided after sign up request approval
3. Ensure you are logged into the website using website's header: registration and sign up buttons are replaced with cart icon and user icon



4. Navigate to the drivers page: [Chowmain - Drivers](#)
5. Alternatively, you can use the global search input in the header to find the driver



6. Search for and locate the driver you are interested. Click *Add To Cart*



7. Once you have added all drivers to your cart, navigate to the shopping cart: [Chowmain - Cart](#)
8. Click *Checkout & Pay*. Follow the directions



9. Purchase confirmation will be sent to your email, all orders can be viewed in the [Chowmain - Orders](#)
10. Once the payment is processed, the driver will be available in your account: [Chowmain - My Drivers](#)

Create Chowmain Project and obtain Project Code

Note:

- Showroom Projects contain all drivers of its Control System
- Paid licenses cannot be assigned to Showroom Projects
- Only 1 Project is required per home
- If the Project has already been created, do not create a second one
- If controller already has a Project code created by another installer, please contact the original installer for access. If the original installer is unavailable, contact [Chowmain - Support](#)

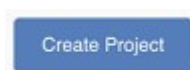
- If the controller has been replaced and the license needs to be transferred to a new controller you can do so yourself via the website

1. Ensure you are signed into the [Chowmain Website](#)

2. Navigate to [Dashboard => Projects](#)



3. Click *Create Project*:



4. Complete the details for the Project (*Project Name, Customer Name, Control System*)

5. Upon completion, take note of the **Project Code**. This is required to link the Control System to the newly created project

To Assign purchased drivers to Project

NOTE: Driver must already be purchased and a Project Code must be created as per above 'Create Chowmain Project and obtain Project Code' section

1. Navigate to [Chowmain Software - Projects](#). Click the *Project Name* you wish to assign the driver to

Project Name	Project Code	Licensed	Showroom	Platform ↑
101	XXXXXX	0	✓	
102	XXXXXX	0	✗	

Rows per page: 15 1-2 of 2 < >

2. Click the *Add License(s)*:



3. Select Drivers you wish to assign to the project, and click *Add Selected Drivers*:

×

Add Drivers to Project

Project #XXXXXX:
Project Name Example

☒

1 available

☒

1 available

☐

1 available

☐

1 available

☐

1 available

Add Selected Drivers

4. Alternatively you can add in drivers via the [Chowmain - Drivers](#)

5. The driver will be added to the project with the license status *Licensed*

	Driver Name	Version	License	Health	Autoupdate	Logging Approved	Log Level
☐ ▾			licensed	-	false	-	-
☐ ▾			licensed	-	false	-	-

Control4

To Download and install Chowmain drivers:

NOTE: Licensed Chowmain drivers come with a complimentary 90-day trial period. To license the driver, installation of the Chowmain Project Agent is required. The Project Agent is also required for automatic driver updates. Throughout the 90-day trial period, Chowmain Drivers operate without any limitations. After this period, the driver will be disabled unless properly licensed.

All Chowmain Licensed drivers require a minimum of OS 3.1.3 to operate correctly unless specified.

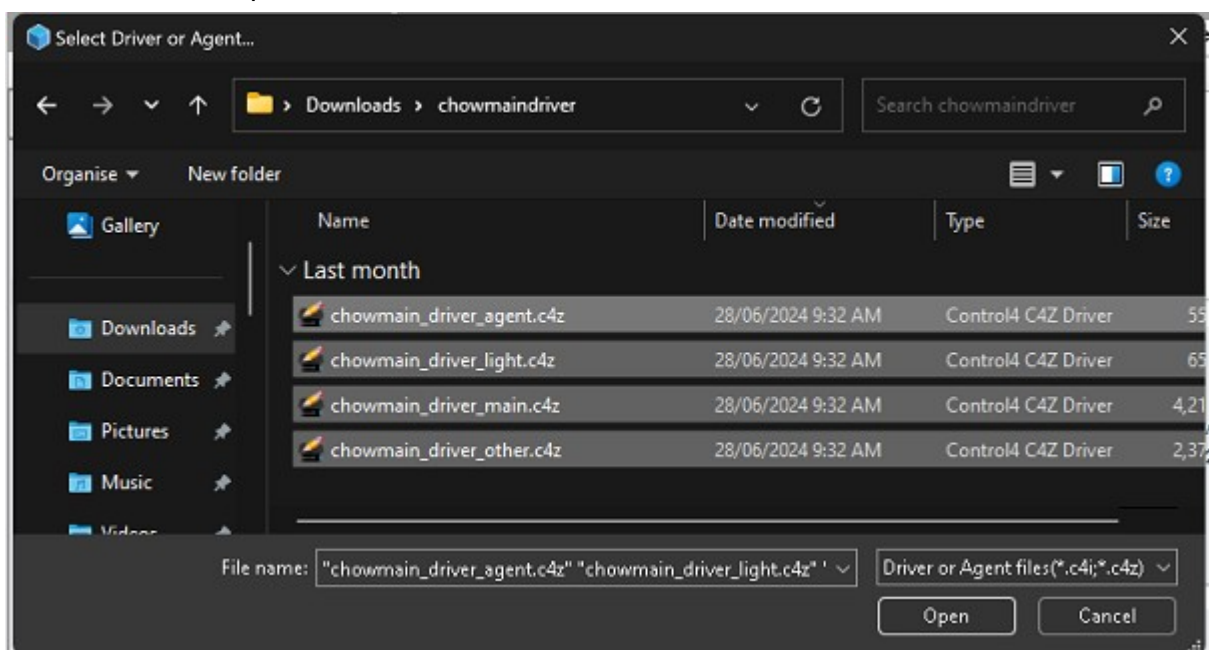
1. Visit: <https://chowmain.software>
2. Search and locate your driver, and click into the details by clicking the picture or heading.
3. Select Download. And extract the contents of the downloaded Zip file to a temporary directory



4. **Please note: For many drivers, it is no longer recommended to copy the contents of most modern drivers directly to your Control4/drivers directory.** The recommended method of updating drivers or installing drivers is in Composer Pro, navigate to the Driver=>Add Or Update Driver Or Agent menu item.



5. Locate the temporary directory containing your C4Z files. You can select and install/update all drivers simultaneously by selecting one and using Ctrl+A. Alternatively, click the top driver+shift+click the bottom. Click the open button. You will be alerted when drivers are installed



6. Install drivers as per normal. Please note, some drivers may be agents, and you must use the Agents tab in Control4 to install the driver. Composer Express does not support Agents, and Composer pro is recommended for all installers.

Install Chowmain Agent

Installation of the Chowmain Agent is required to licence drivers

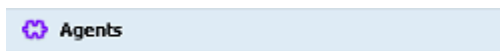
1. Download Chowmain Project Agent From the [Chowmain Project Agent Page](#)
2. Open Project In Composer Pro. Composer Express does not Support Agents and cannot be used
3. Navigate to the *Driver=>Add Or Update Driver Or Agent* menu item



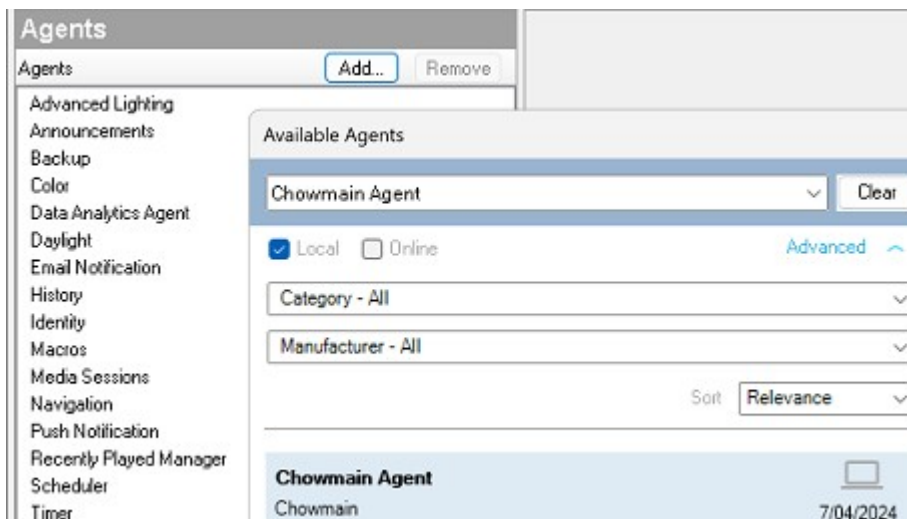
4. Add the *agent_chowmain.c4z* file



5. Navigate to the Agents View in Composer Pro



6. If *Chowmain Agent* is not already added to project, select the *Add* button in Agents and add the *Chowmain Agent* to Project

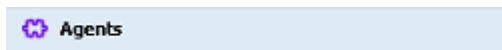


7. *Chowmain Agent* should be listed in the project.



Link Project Code to Control4 Project

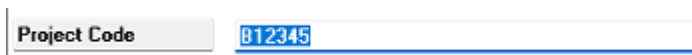
1. Ensure *Chowmain Agent* is installed on primary Control4 Controller. If not, follow the previous information
2. Navigate to the Agents View in Composer Pro



3. Select *Chowmain Agent* in the project



4. Enter the Project Code into the Project Code Property. You would have previously set this up on the *Chowmain* website as outlined in the Website portion of this document. If you have not set up a project you can do so via the [Chowmainsoft - Projects](#) webpage.



5. The status property will provide feedback on driver licencing status



6. **Please note:** If project code has been used previously on another controller you can revoke the licence for use again.

LICENCING FAQ

What are the Requirements for Chowmain licencing?

- Driver trials do not require Agent to be installed.
- To activate licenced drivers, *Chowmain Project Agent* must be installed.
- Composer Pro 3.1.3 or later is required to install and configure *Chowmain Project Agent*
- Internet is required during the licence registration process.
- If Internet is lost then the licence will persist the last state.
- If the *Chowmain Project Agent* is removed then licencing will be invalidated. Do not remove the *Chowmain Project Agent* once installed.

How do I know if the deployed driver is using Chowmain Licencing?

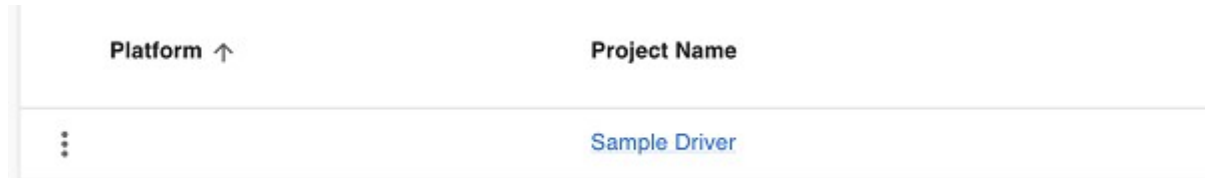
- There are multiple ways:

1. Chowmain licensed drivers have CM: in their cloud status property

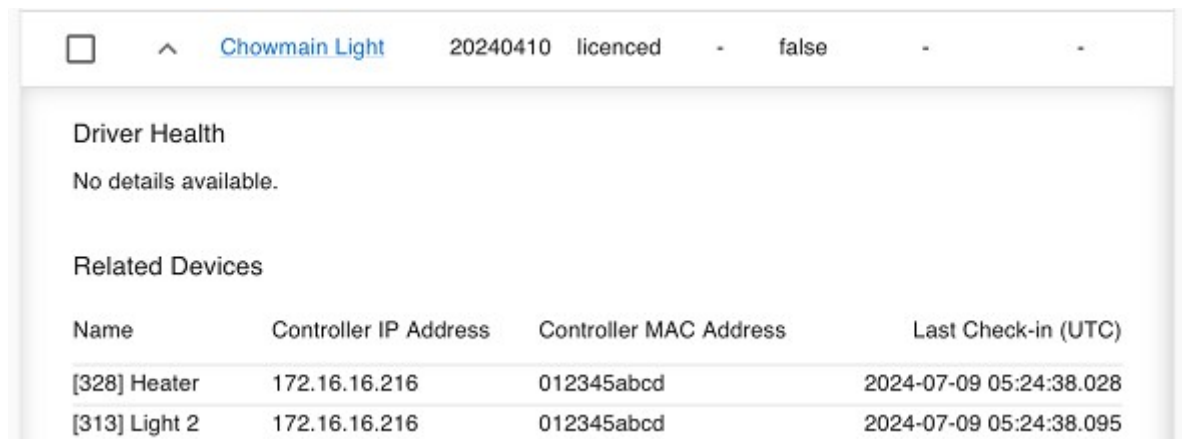


2. If the *Project Code* has been correctly entered in Chowmain Project Agent and the project is registered, you can find the list of Chowmain-licensed drivers deployed on your controller using the Chowmain website.

1. Navigate to [Chowmainsoft Website - Projects](#)
2. Select your Project Code



3. Known Chowmain Drivers will be listed, and if you select the driver, it will list which drivers in the project are known to be CM Licenced. Please note, this list may not update immediately



How does the trial period work?

All Chowmain drivers are free to use for 90 days. When the trial expires the driver will cease to function until you purchase a licence and apply it to the project.

What benefits does Chowmain Project Agent provide?

Chowmain Project Agent provides a number of benefits for projects

- Required for activation of driver licences. Enables the linking of Control4 Projects to Chowmain Project Codes.
- Required for Auto Updates of Chowmain Licenced drivers
- Provides local access to all Diagnostics for all known licenced Chowmain drivers on Control4 system in 1-click
- Bulk Enable and Disable of Automatic Updates of drivers
- Display local licencing information for all known driver
- Update All Drivers in 1 click to latest versions available for that driver

Where do I buy a Licence from?

- Chowmain Control4 Drivers are only available to Control4 installers. Installers can sign up to a Chowmain account using: <https://chowmain.software/signup>. If you are a home owner you should contact your automation installer for support, purchase and installation of drivers
- This driver is developed by Chowmainsoft and can be purchased from the [Chowmain Software Website](#).
- All licences are site licences. This means the one licence can be used to unlock as many instances of the same driver in the same project.

Can I upgrade old versions of drivers from other marketplaces to Chowmain?

- This process is mostly automated.
 1. Install Chowmain Project Agent, and assign a Project Agent as required
 2. Ensure all drivers are up to date, and replace obsolete drivers with updated builds.
 3. Wait 10 mins.

Developer Information



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Information stated in this document is current as of January 2026 and may change. For latest information please visit <https://www.chowmainsoft.com>

Support

Ticket / Live Chat Support

We provide ticket based support and live chat support for those who can't contact us via phone. Click the button below to visit our online helpdesk.

Support Centre	Hours of Operation	URL
Australia / New Zealand / United Kingdom	Monday - Friday - See website for hours of operation	https://chowmain.software/for-integrators/ technical-support

Phone Support

Region	Hours of Operation	Phone Number
Australia	Monday - Friday - See website for hours of operation	[+61 3 9028 6999](tel:+61 3 9028 6999)
United Kingdom	Monday - Friday - See website for hours of operation	[+44 29 2000 5551](tel:+44 29 2000 5551)
United States	Monday - Friday - See website for hours of operation	[+1 206 944 5444](tel:+1 206 944 5444)

Driver Documentation

All of our drivers come with detailed instructions on how to install and configure the driver for use in different projects. Please refer to the documentation included with the driver you downloaded, or [contact us](#) if you are unable to locate the documentation for your driver.

Change Log

20261026 - 26-OCT-2026

- Initial release