Tesla Platform For Crestron Home

Revision: 2.0.0
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Supported Installation

This is a platform driver for Crestron Home processors on OS 4 and above only. It needs an Internet connection, because it reaches Tesla through Ultamation's cloud service.

Module Description

The driver brings the homeowner's Tesla cars and Powerwalls into Crestron Home. Each car and each Powerwall gets its own tile and pages, with programmable actions and events for sequences.

Car

- A tile showing charge, range and what the car is doing: charging, driving, parked, locked, asleep or offline.
- Pages for security, climate, tyres, Tesla's alerts and recent activity.
- Controls for climate, Sentry Mode, locks, windows, boot and frunk, with an optional PIN.
- An action bar of up to five quick buttons, chosen by the user.
- Last known data while the car sleeps, without waking it just to read it.
- Sequence actions such as Lock and Start Climate, and events such as Charging Started and Car Arrived At Home.
- Settings for battery and home/away event thresholds, alerts and gauge colours.

Powerwall

- A tile showing charge and whether the home is on battery, solar or the grid.
- Solar, home and grid power, power cuts, Storm Watch, operating mode and backup reserve.
- Energy used and produced over the last day, 7 days or 30 days.
- Sequence actions to turn Storm Watch on and off, and events such as Power Cut, Power Restored and Powerwall Full.
- Settings for battery event thresholds and gauge colours.

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Evaluation

The Tesla driver has no trial period, because of Tesla's authentication requirements. Instead, its demo mode shows what the driver does before you buy a licence. It needs no Tesla account and no licence, and it never connects to a real car or Powerwall.

1. Add the Tesla platform. Leave **"Portal Authorisation Code"** blank and tick **"Demo Mode"**.
2. A **Demo Car** and a **Demo Home** appear under **"Managed Platforms"**. Add them to a room.
3. Open either tile and use the **Back** and **Next** buttons to step through real-life examples, from a car charging overnight to a power cut.

The buttons on the demo pages work as they would on a real car or Powerwall, so you can try the controls, the action bar and the settings. Untick **"Demo Mode"** to remove the demo devices. See "Demo Mode" in the User Guide for the full list of examples.

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Before You Start

Please check the following before installing the driver.

Tesla Account and App

- The homeowner must be able to see and control the car or Powerwall remotely in the Tesla app.
- Connect the **owner's** Tesla account where possible. A **driver's** account (a car shared through Tesla's "Add Driver") also works, including commands once the virtual key is added.
- You can connect more than one Tesla account for each product. An active licence is required for each one.
- Tesla accounts in Europe and North America are supported. Accounts in China are not.

Tesla Virtual Key (for Car Commands)

Tesla requires every third-party app to be given a **virtual key** on each car before it can send commands such as lock or climate. Without it, the car's data still shows, but commands are refused.

The car's owner or a driver adds the key in the Tesla app, following Tesla's own steps. To start, open this link on the phone with the Tesla app:

https://www.tesla.com/_ak/portal.ultamation.com

Tesla changes these steps from time to time, so please follow the instructions the Tesla app shows. The key is needed once per car. Powerwalls don't need it.

Licences

Each car and each Powerwall that the driver uses takes one licence on the Crestron Home processor. Licences are checked through Ultamation's cloud service, so there is no key to enter.

You choose which devices use a licence. See "Choosing Which Devices Use a Licence".

Processor Location (for Home and Away)

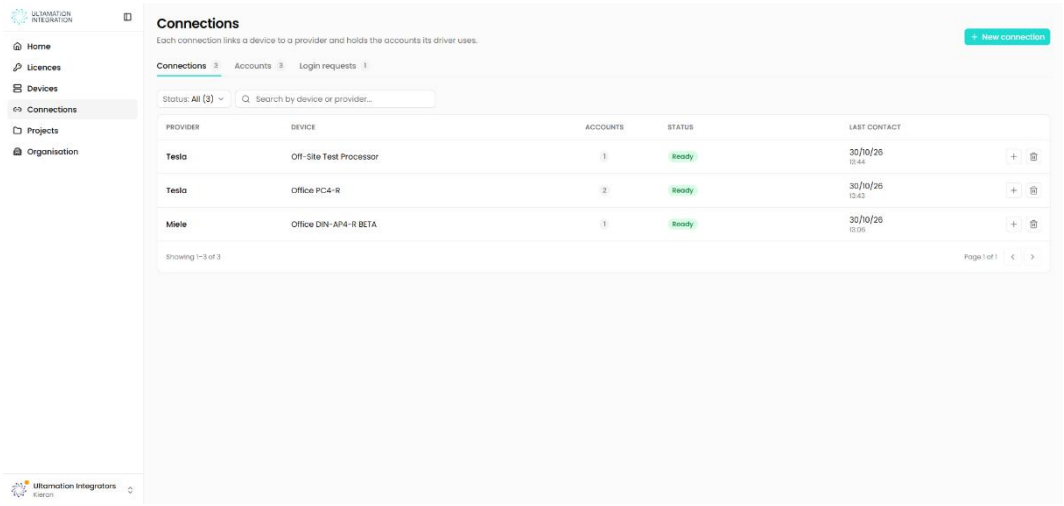
The "Car Arrived At Home" and "Car Left Home" events compare the car's position with the processor's location. Set the processor's location in Crestron Home before using them. A change of location needs a processor reboot.

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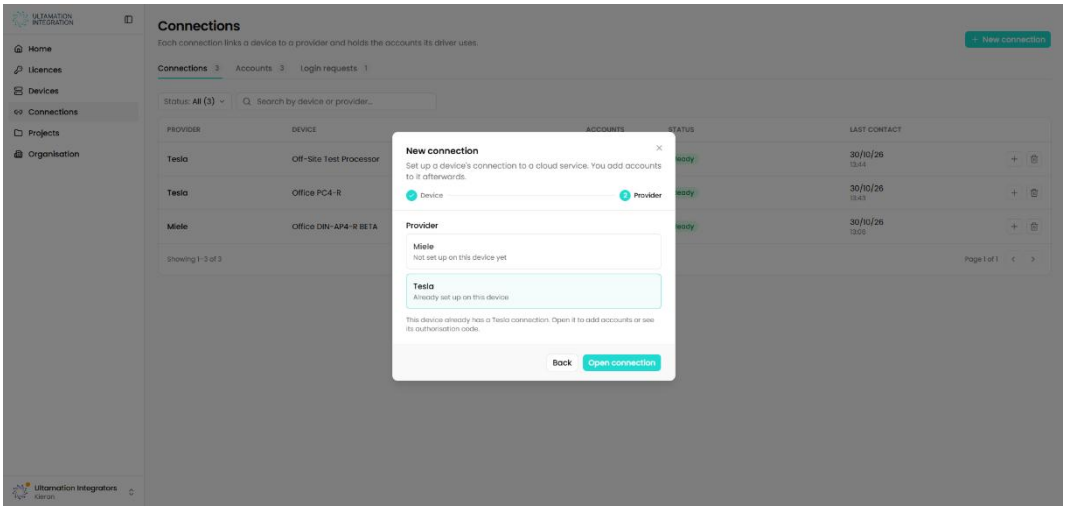
Connecting a Tesla Account

Tesla accounts are linked to the processor through the Ultamation portal using secure OAuth 2.0. The service refreshes tokens automatically.

1. Sign in at portal.ultamation.com with the Ultamation account that has an active Tesla Vehicle or Tesla Powerwall subscription.
2. Go to **Connections** and create one for the processor.
3. Select **Add an account** to sign in or send the homeowner a login request link. Devices will appear once they complete the login. If the driver is already installed, you may need to restart the processor so it finds the new devices.
4. Copy the authorisation code into the platform's installer settings. The final **Set-Up** step will show when the driver has reached the service using the code.
5. Add or remove accounts at any time during or after installation. If done after installation, the devices must already be added to a room and configured.

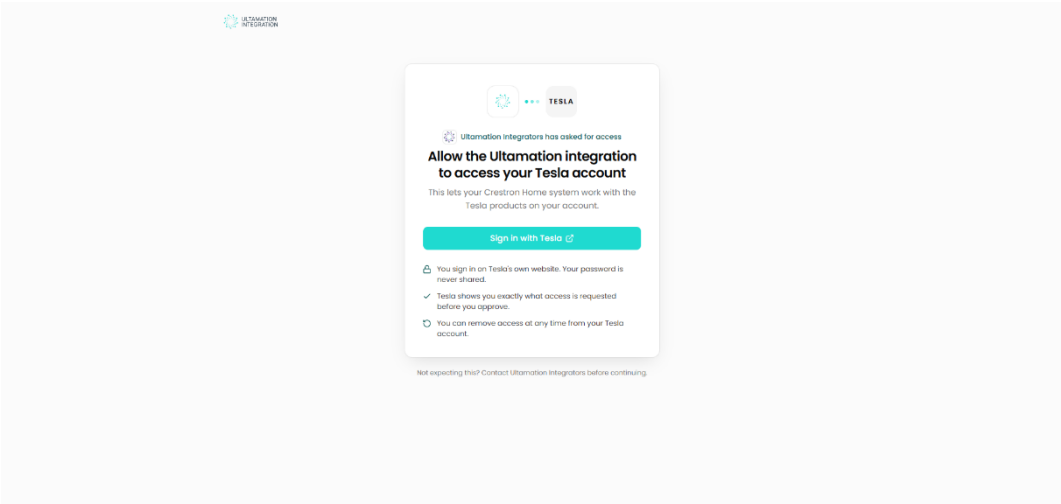


Screenshot 1: The connections page at portal.ultamation.com.

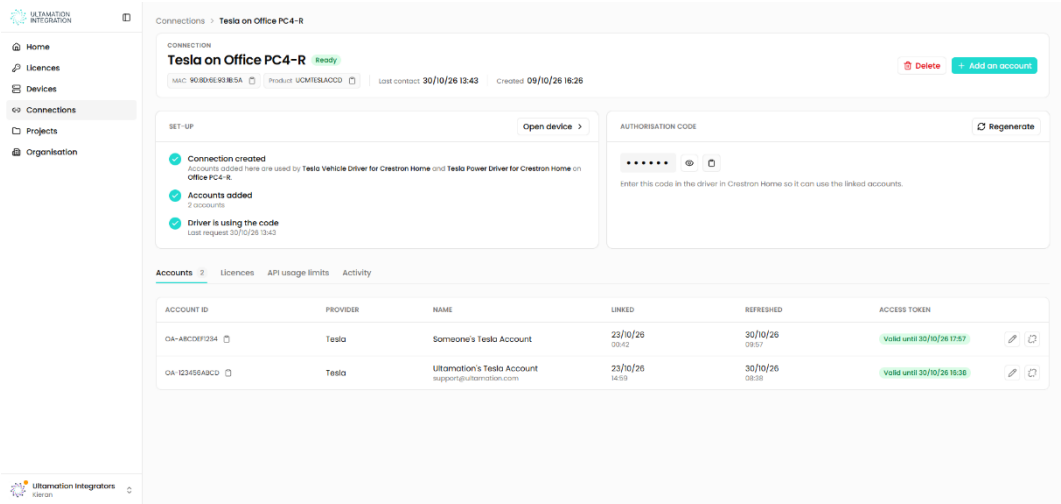


Screenshot 2: Creating a new connection with Tesla as the provider.

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Screenshot 3: What the end-user sees from the login request link.



Screenshot 4: The connection details page, with two accounts, after all set-up steps are completed.

More Than One Tesla Account

Repeat these steps for each Tesla account to link to the same processor. The driver finds the cars and Powerwalls on every linked account. If the same car is on two accounts, such as the owner's and a driver's, it is added once, using the owner's account.

Removing Access

The homeowner can withdraw access at any time from their Tesla account. See Tesla's guidance:

https://www.tesla.com/support/access-third-party-apps

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Installation

The driver can be found under:

Drivers > Platform > Tesla > **Tesla Platform (Ultamation Limited).**

Platform Device

The platform finds the cars and Powerwalls on the linked Tesla accounts and adds each one as a device. Add it to a hidden "Equipment" room, and only add one Tesla platform to the system.



Screenshot 5: The Tesla platform in Crestron Home Setup.

Portal Authorisation Code

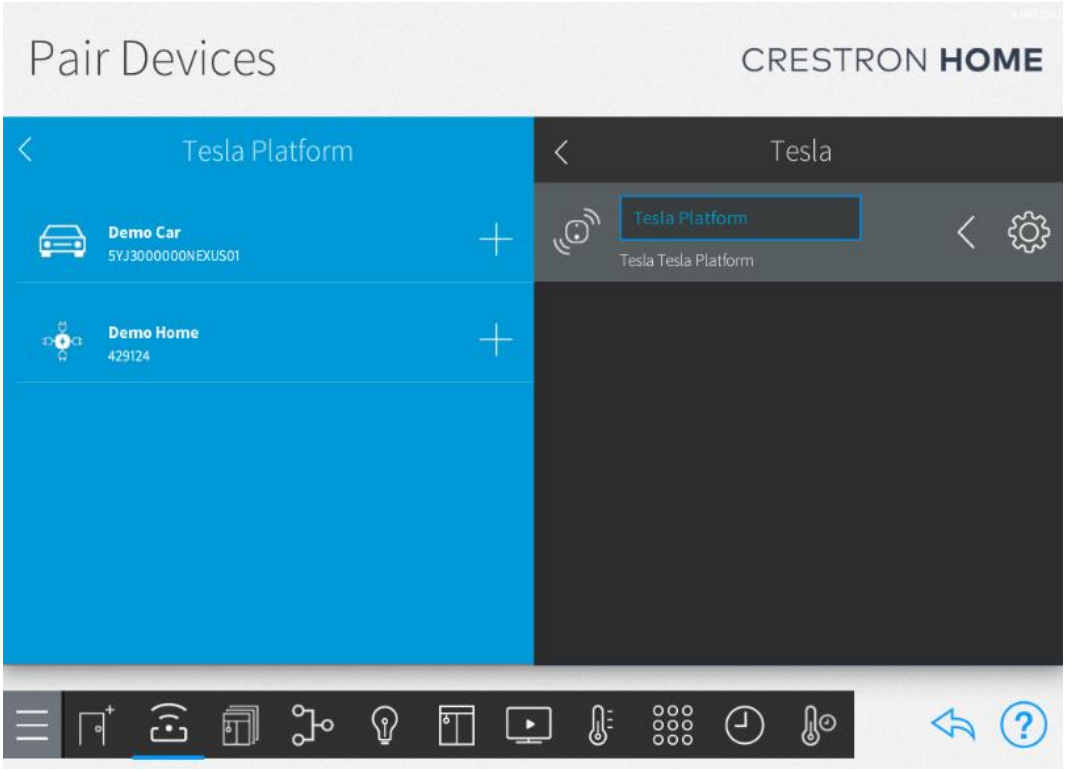
Enter the authorisation code from the Ultamation portal. Shortly after, the platform adds the linked accounts' cars and Powerwalls under **"Managed Platforms"**. If something can't be added, the reason is written to the processor's error log.

> Cars or Powerwalls added to a Tesla account later appear after a processor restart, or after a different authorisation code is entered.

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Demo Mode

Tick **Demo Mode** to add a **Demo Car** and a **Demo Home** with sample data, beside any real devices. They use no licence and send nothing to Tesla. Demo Mode needs no authorisation code, so you can leave **"Portal Authorisation Code"** blank. Real cars and Powerwalls still need the code.



*Screenshot 6: The demo devices under "**Managed Platforms**" after ticking "**Demo Mode**".*

Car Device

Each car appears under **"Managed Platforms"** with its name from the Tesla app. Add it to a room as you would any device.

Configure Commands

The car's settings decide which controls appear on its tile.

- **Climate and Sentry Mode Controls (on by default):** climate, cabin temperature, seats, steering wheel, defrost, Keep, Dog and Camp modes, Sentry Mode and flashing the lights.
- **Security Controls (off by default):** adds lock and unlock, windows, boot and frunk. Turn on Climate and Sentry Mode Controls first.
- **PIN (Optional):** asked for on the tile before a command is sent. We strongly recommend one when security controls are on. Sequences never ask for it.

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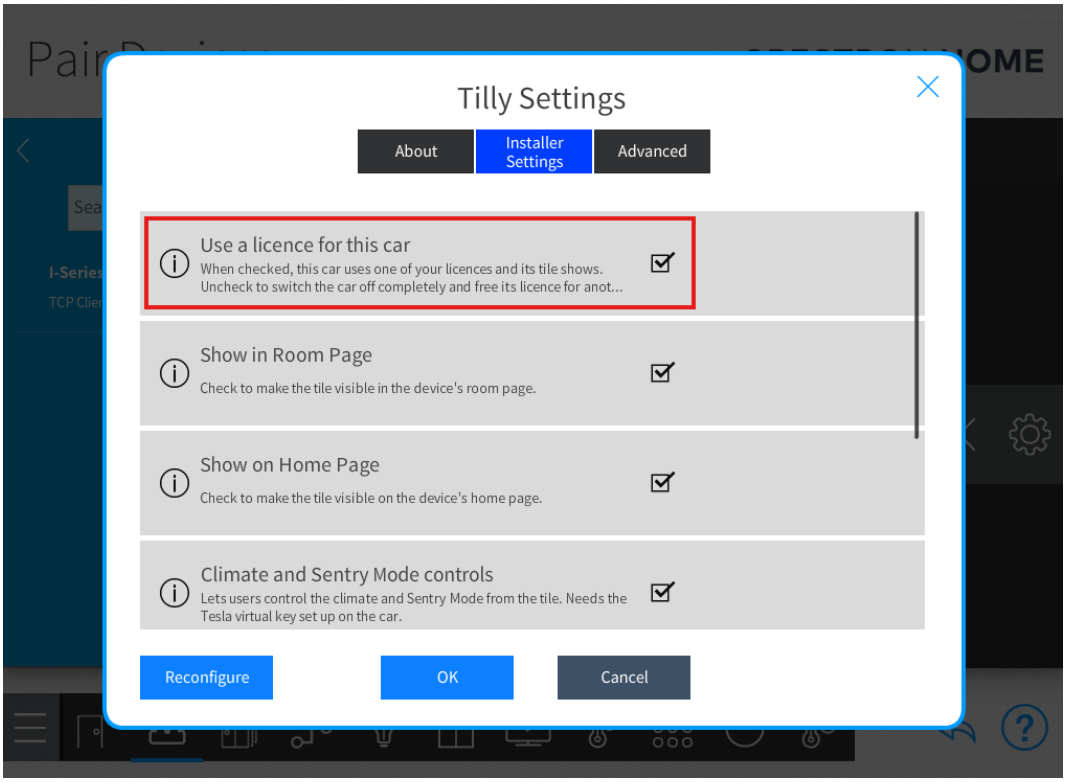
Commands need the Tesla virtual key on the car. See "Before You Start".

Powerwall Device

Each Powerwall appears under **"Managed Platforms"** with its site name from the Tesla app, or "Powerwall" if the site has none. Its settings are the licence, tile visibility and "Storm Watch Control".

Choosing Which Devices Use a Licence

Every car and Powerwall on the linked accounts is added, but only those with **"Use a Licence"** ticked take a licence. Untick it on any device you don't want to use. That device then holds no licence, sends nothing to Tesla and shows no tile, and its licence is free for another.



Screenshot 7: A car device consuming a Tesla Vehicle licence.

For example, a homeowner with two cars and one Powerwall on their account, who has bought one car licence and one Powerwall licence:

1. Leave **"Use a Licence for This Car"** ticked on the car they want in Crestron Home.
2. Untick it on the other car.
3. Leave **"Use a Licence for This Powerwall"** ticked on the Powerwall.

You can change your choice at any time. The change takes effect straight away.

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Installer Settings

Platform

Setting	Default	What it does
Portal Authorisation Code	Blank	Links the processor to the accounts in the portal.
Demo Mode	Off	Adds a Demo Car and a Demo Home.

Car

Setting	Default	What it does
Use a Licence for This Car	On	Unticking it switches the car off and frees its licence.
Show in Room Page	On	Shows the tile on the room page.
Show on Home Page	On	Shows the tile on the home page.
Climate and Sentry Mode Controls	On	Shows the climate, Sentry Mode and lights controls.
Security Controls	Off	Also shows locks, windows, boot and frunk.
PIN (Optional)	Blank	Asked for before a command is sent.
Show User Settings	On	Shows the Settings button to users.

Powerwall

Setting	Default	What it does
Use a Licence for This Powerwall	On	Unticking it switches the Powerwall off and frees its licence.
Show in Room Page	On	Shows the tile on the room page.
Show on Home Page	On	Shows the tile on the home page.
Storm Watch Control	On	Lets users turn Storm Watch on and off. The Storm Watch On and Off actions still work when this is off, so sequences keep running.

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User Settings

Each tile has a Settings button. These settings are designed for users, and they are welcome to change them. They are kept through a processor restart.

Setting	Device	What it does
Action bar	Car	Up to five quick buttons on the main page.
Event thresholds	Car, Powerwall	Battery event levels, 20% and 80% by default.
Use the car's location	Car	Off by default. Needed for home and away.
Home and away distances	Car	100 m for home and 300 m for away by default.
Tesla's alerts	Car	Shows or hides Tesla's alerts.
Gauge colours	Car, Powerwall	The battery gauge colour for each state.

Setting Them Up for the User

You may have a reason to fix these settings, such as a set of action bar buttons agreed with the homeowner. To do this:

1. Open the car's tile and set everything up from its Settings button.
2. In Crestron Home Setup, untick **"Show User Settings"** on the car.

The Settings button disappears, and the settings stay exactly as you left them. Tick **"Show User Settings"** again at any time to change them. The Powerwall's Settings button can't be hidden.

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Creating Translation Files

The labels on the driver's pages come from its translation file, en-US.json. To show them in another language, add a translation file for that language as below.

Connect to the Crestron Home processor using an FTP client and navigate to user/Data/UsedThirdPartyDrivers. Open the Tesla platform's folder, then the version in use, then its translations folder. Copy en-US.json to your PC and translate the text on the right of each line.

For example, to translate the driver to French (France):

1. Open the translations folder and copy en-US.json.
2. Translate each value, such as "Charging Started" to "Recharge commencée". Only change the text on the right of each colon.
3. Save the file with the language code as its name, for example fr.json.

Copy the new file back to the same folder, repeat for each language, then restart the processor.

Language Codes and Region Codes

Filenames must use a standard code, either:

- Language only: fr.json, de.json, es.json
- Language and region: fr-FR.json, fr-CA.json, de-CH.json

If a translation doesn't show while the device is set to that language, check the file's name.

> Text the driver works out as it runs, such as the tile's status, is in English, and Tesla's alerts are shown as Tesla sends them. Translation files are replaced when the driver is upgraded, so keep a copy.

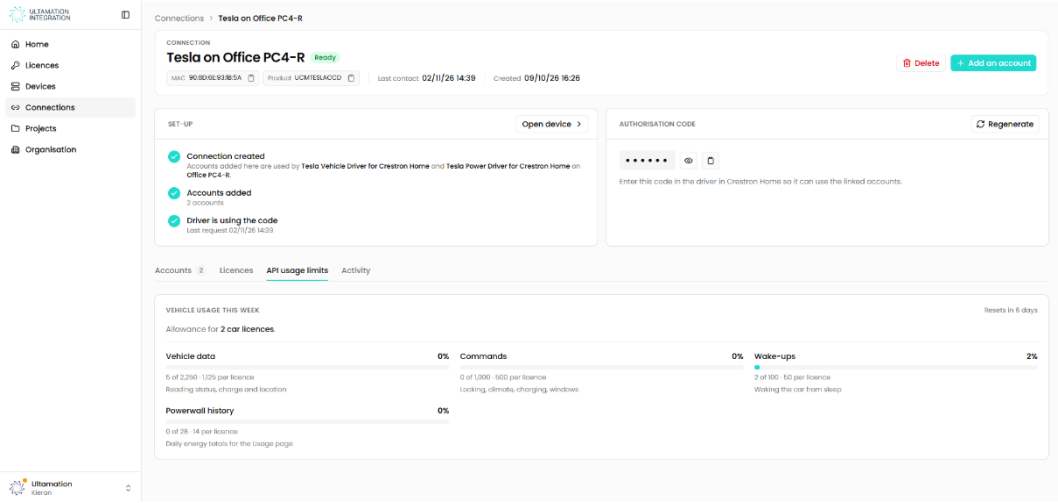
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Usage Limits

Tesla charges for car data, commands and wake-ups, so each licence has a weekly limit for each kind of request. The limits are set so that normal, everyday use stays well within them.

Checking Your Usage

1. Sign in to https://portal.ultamation.com.
2. Open **Connections** (or **Devices**) and choose the processor's Tesla connection.
3. Open the **API usage limits** tab to see this week's usage and when it resets.



Screenshot 8: The API usage limits tab of a connection in the Ultamation portal.

Weekly Limits

Each licence has its own limit for each kind of request, so a connection with two licences has twice the allowance. Usage resets every week. The limits may change over time, so always check the current figures in the portal.

Limit	What counts
Vehicle data	Reading the car's status, charge and location.
Commands	Locking, climate, windows and the rest.
Wake-ups	Waking the car from sleep.
Powerwall history	Daily energy totals for the Powerwall's **Usage** page.

Checking whether the car is awake, Tesla's alerts and the Powerwall's live readings are free. If a limit is reached, those requests are refused until the reset, and a refused command shows **"Weekly limit reached"** in the car's Activity page.

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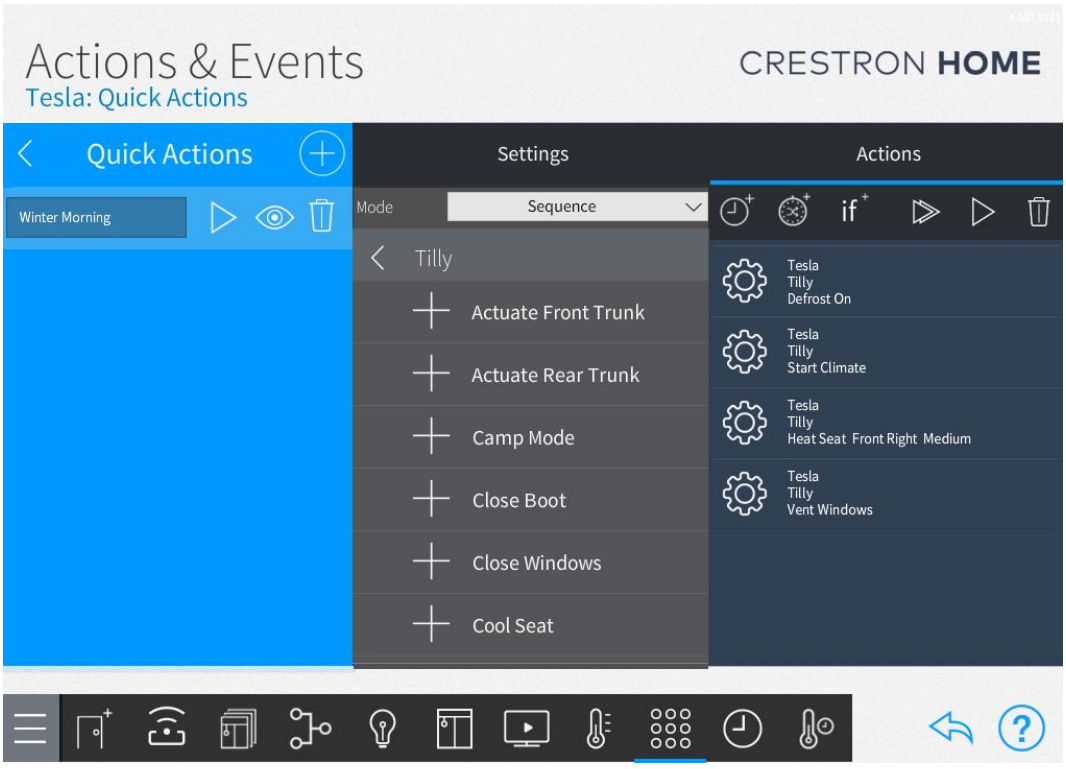
Actions & Events

The driver offers programmable actions and events for sequences and quick actions.

Car Actions

Actions never ask for the PIN, because a sequence can't enter one. A sleeping car is woken first, which can take up to a minute. Actions work even when Climate and Sentry Mode Controls is off. A tick in the table shows what an action needs:

- **Virtual key:** the Tesla virtual key must be added to the car, otherwise Tesla refuses the command. See "Before You Start".
- **Security: "Security Controls"** must be ticked in the car's settings in Crestron Home Setup. These actions open the car, so they are off unless you turn them on. Actuate Rear Trunk and Actuate Front Trunk are version 1 actions, kept so existing sequences keep working. They work whatever the car's settings, so use Open Boot, Close Boot and Open Frunk in new sequences.



Screenshot 9: The car's programmable actions in a climate preconditioning sequence.

Action	What it does	Virtual key	Security
Lock	Locks the car.	✓	
Unlock	Unlocks the car.	✓	✓

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Action	What it does	Virtual key	Security
Vent Windows	Opens the windows slightly.	✓	✓
Close Windows	Closes the windows.	✓	
Open Boot	Opens a powered boot when its state is known.	✓	✓
Close Boot	Closes a powered boot when its state is known.	✓	
Open Frunk	Opens the front boot.	✓	✓
Flash Lights	Flashes the headlights.	✓	
Sentry Mode On	Turns Sentry Mode on.	✓	
Sentry Mode Off	Turns Sentry Mode off.	✓	
Start Climate	Starts the climate.	✓	
Stop Climate	Stops the climate and defrost.	✓	
Defrost On	Turns maximum defrost on.	✓	
Defrost Off	Turns maximum defrost off.	✓	
Keep Climate On	Keeps the climate on after you leave.	✓	
Dog Mode	Keeps the cabin comfortable for a pet.	✓	
Camp Mode	Keeps the climate on for camping.	✓	
Keep, Dog or Camp Mode Off	Ends Keep, Dog or Camp mode.	✓	
Heat Seat	Sets a seat's heat level, including the third row.	✓	
Heat Steering Wheel	Sets the steering wheel heat to Off, Low or High.	✓	
Cool Seat	Sets a seat's cooling, where fitted.	✓	
Wake Vehicle	Wakes the car for fresh data.		

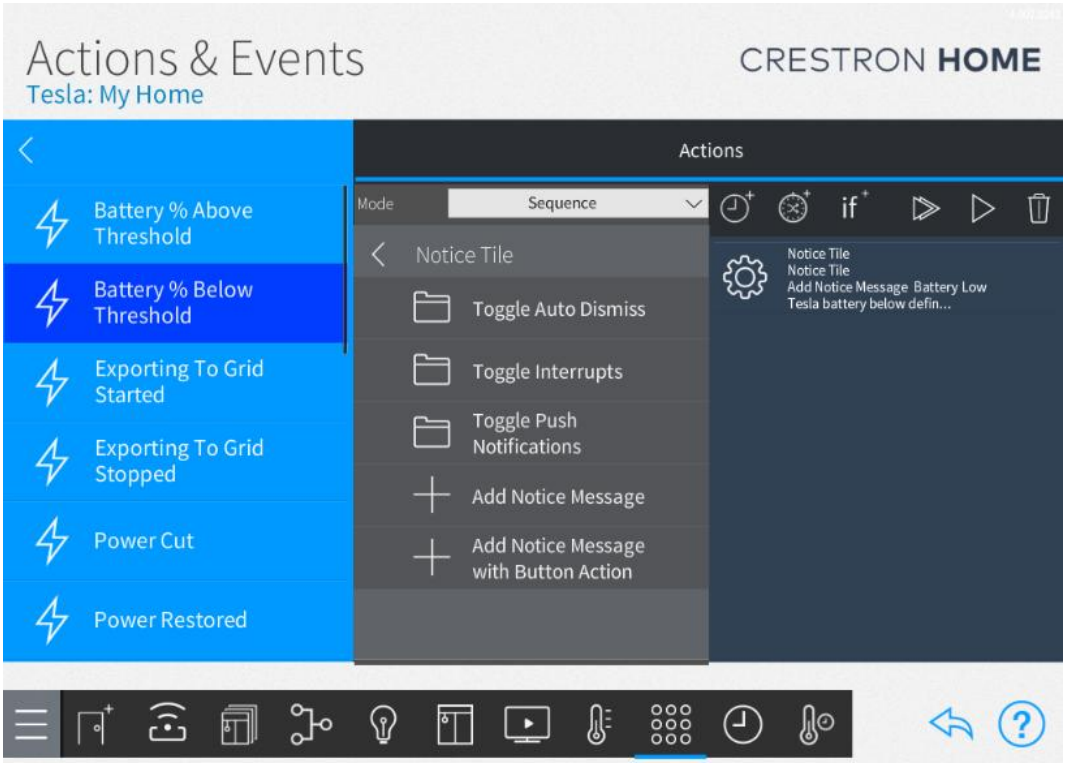
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Powerwall Actions

Action	What it does
Storm Watch On	Turns Storm Watch on.
Storm Watch Off	Turns Storm Watch off.
Refresh	Asks the Powerwall for its latest readings now.

Car Events

Each event fires once when the change is seen. A car reports every 10 minutes while awake, so events can follow the change by up to 10 minutes. Starting the processor never fires an event.



Screenshot 10: The car's programmable events in a sequence that creates a notification within the Ultamation Notice Tile.

Event	When it fires
Battery % Below Threshold	The battery falls below the low level in Settings.
Battery % Above Threshold	The battery rises above the high level in Settings.
Car Arrived At Home	The car comes home. Needs location on.
Car Left Home	The car leaves home. Needs location on.
Charging Started	The car starts charging.

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Event	When it fires
Charging Stopped	The car stops charging.
Charge Complete	Charging reaches the car's charge limit.
Charger Plugged In	A charging cable is connected.
Charger Unplugged	The charging cable is removed.
Car Locked	Anyone locks the car.
Car Unlocked	Anyone unlocks the car.
Sentry Mode Turned On	Sentry Mode is turned on.
Sentry Mode Turned Off	Sentry Mode is turned off.
Climate Turned On	The climate starts.
Climate Turned Off	The climate stops.
Car Woke Up	The car comes online.
Car Went To Sleep	The car goes to sleep.
Car Command Failed	A command sent to the car failed. The reason is in Activity. A command the driver refuses before sending, for example because of the car's settings, shows in Activity and on the tile but doesn't fire this event.
New Tesla Alert	Tesla reports a new alert for the car.

Powerwall Events

Event	When it fires
Battery % Below Threshold	The battery falls below the low level in Settings.
Battery % Above Threshold	The battery rises above the high level in Settings.
Power Cut	The grid goes down and the home runs on battery.
Power Restored	The grid comes back after a power cut.
Exporting To Grid Started	The home starts sending power to the grid.
Exporting To Grid Stopped	The home stops sending power to the grid.
Powerwall Full	The Powerwall reaches full charge. It fires again only after the charge drops below 98%.
Storm Mode Activated	Storm Watch is turned on.
Storm Mode Deactivated	Storm Watch is turned off.

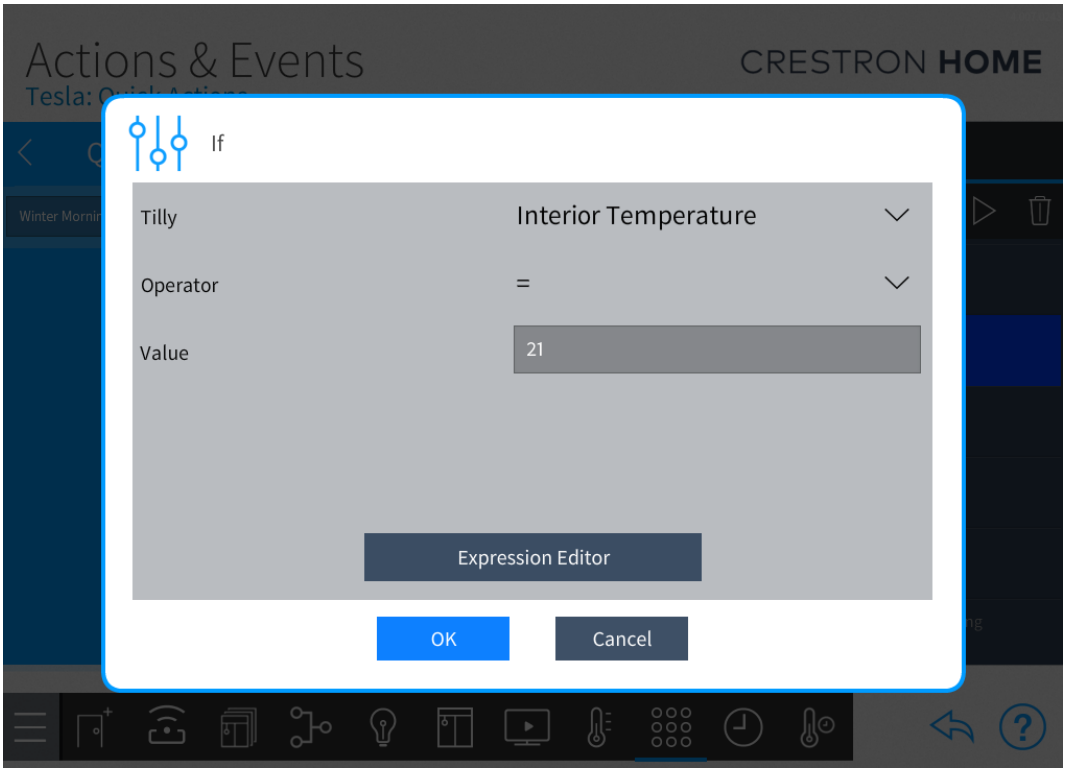
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Properties for Conditions

These values can be tested in a sequence's conditions.

Property	Device	Description
Car Online	Car	The car is awake and reachable.
Car Asleep	Car	The car is asleep.
Car Offline	Car	The car can't be reached.
Battery Level	Car	The charge in percent. 0 until the first data arrives.
Car Charging	Car	The car is charging.
Charger Plugged In	Car	A charging cable is connected.
Doors Locked	Car	The car is locked.
Windows Open	Car	Any window is open.
Sentry Mode On	Car	Sentry Mode is on.
Climate On	Car	The climate, or Keep, Dog or Camp mode, is running.
Car At Home	Car	The car is home. Needs location on.
Interior Temperature	Car	The last cabin temperature as text, for example "Inside: 21.5°C", in the car's unit.
Exterior Temperature	Car	The last outside temperature as text, for example "Outside: 12.5°C", in the car's unit.
Percentage Charged	Powerwall	The Powerwall's charge in percent.
Energy Left	Powerwall	The energy stored in the Powerwall.
Battery Power	Powerwall	The Powerwall's power in watts.
Solar Power (W)	Powerwall	Solar power in watts.
Home Power (W)	Powerwall	The home's use in watts.
Grid Power (W)	Powerwall	Grid power in watts. Positive when importing, negative when exporting.
Exporting To Grid	Powerwall	The home is sending power to the grid.
Off Grid	Powerwall	The home is off the grid.
Storm Expected	Powerwall	Storm Watch is preparing for a storm.

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Screenshot 11: The car's properties used in a conditional sequence.

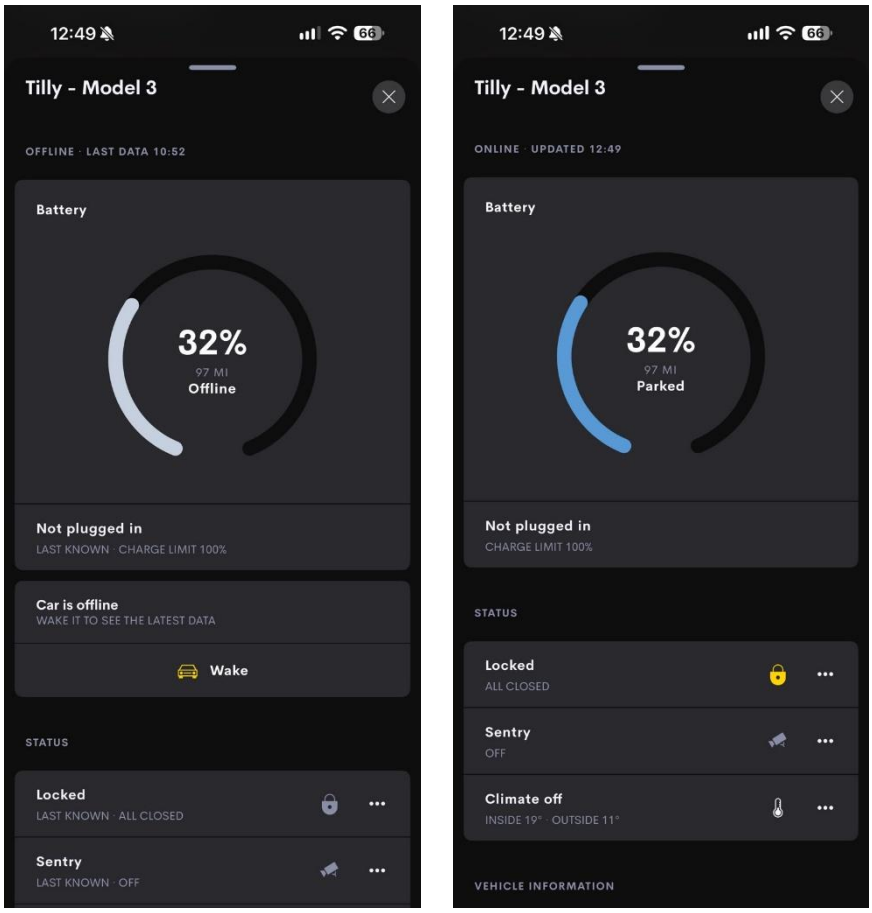
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User Guide

Car

Tile and Main Page

The tile shows the charge and the most important thing about the car now: charging, driving, unlocked, locked, asleep or offline. The main page shows the battery gauge with range and status, the action bar, and rows for Security, Climate, Tyres and Alerts.



Screenshots 12 and 13: The car's main page when the car is offline (left) and online (right).

Wake and Refresh

A car that is asleep shows its last known data, marked as such. The driver never wakes a car just to read it, because each wake uses a little battery and Tesla limits them. The Wake button asks first, and waking can take up to a minute. Once awake, fresh data arrives every 10 minutes.

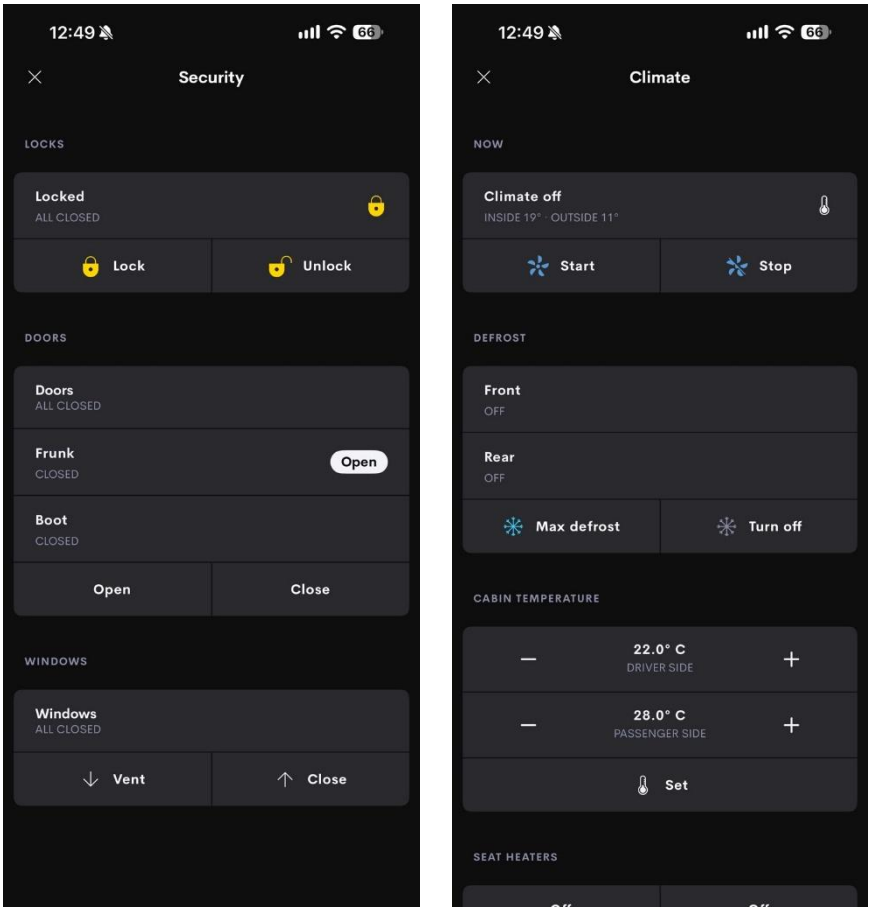
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Commands

A pressed button shows a spinner while sending, then Done or Failed, and the pages update as soon as Tesla accepts the command. A sleeping car is woken first. Risky commands, such as unlock, ask for confirmation, and for the PIN if one is set.

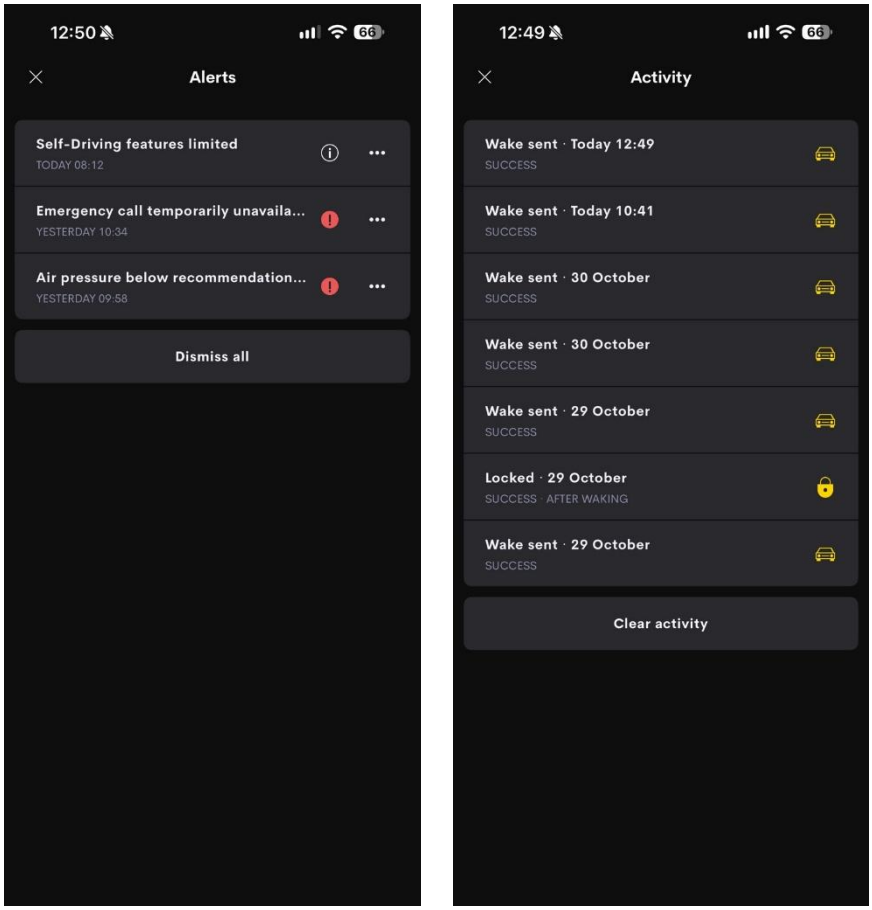
Security, Climate, Alerts and Activity

- **Security:** locks, windows, boot, frunk and Sentry Mode.
- **Climate:** climate, cabin temperature, seats, steering wheel, defrost, Keep, Dog and Camp modes, and overheat protection.
- **Alerts:** Tesla's recent alerts, newest first. Tap one to read it and dismiss it. Dismissed alerts stay dismissed.
- **Activity:** the last 20 commands, whether each worked, and Tesla's reason if not.



Screenshots 14 and 15: The Security page (left), the Climate page (right).

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Screenshots 16 and 17: The Alerts page (left), the Activity page (right).

Location and Privacy

Using the car's location is off by default. When on, it is only used to work out the distance from home. The car's location is never logged or saved.

Action Bar

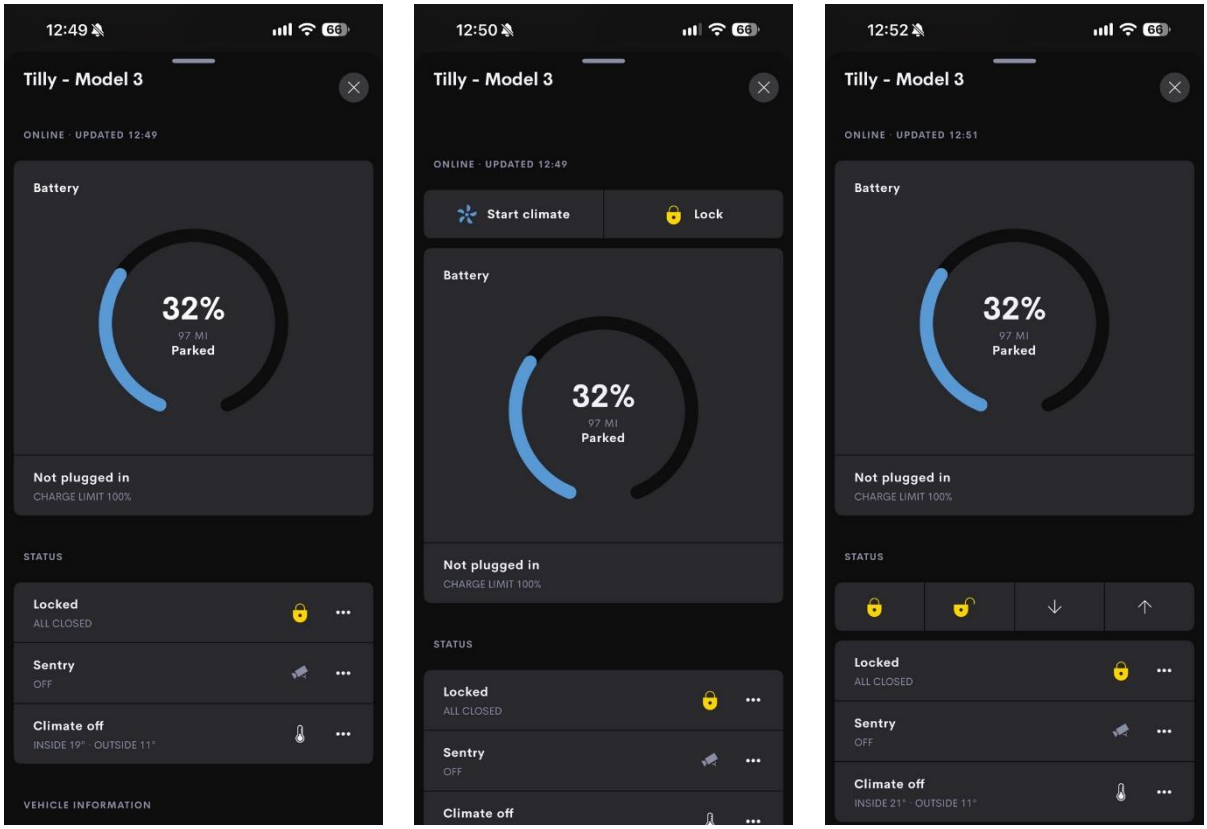
The action bar is a row of up to five quick buttons on the car's main page, such as Climate, Lock and Flash lights. It needs **"Climate and Sentry Mode Controls"** on, and lock, unlock, windows, boot and frunk buttons also need **"Security Controls"**.

To set it up, open the car's tile, then **Settings > Action bar**:

1. Turn **"Show the action bar"** on or off.
2. Choose a button for each of the five slots, or None.
3. Choose where it sits: above or below the gauge, or above or below the status.

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One or two buttons show an icon and text. Three show an icon and short text. Four or five show icons only. By default it shows Climate and Flash lights above the gauge.

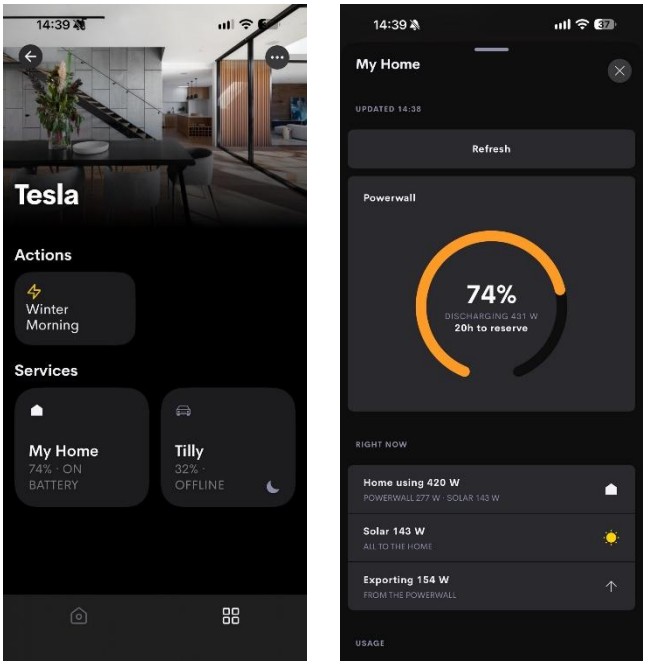


Screenshots 18 to 20: No action bar (left), two buttons above the gauge (middle), four buttons at the top of the status section (right).

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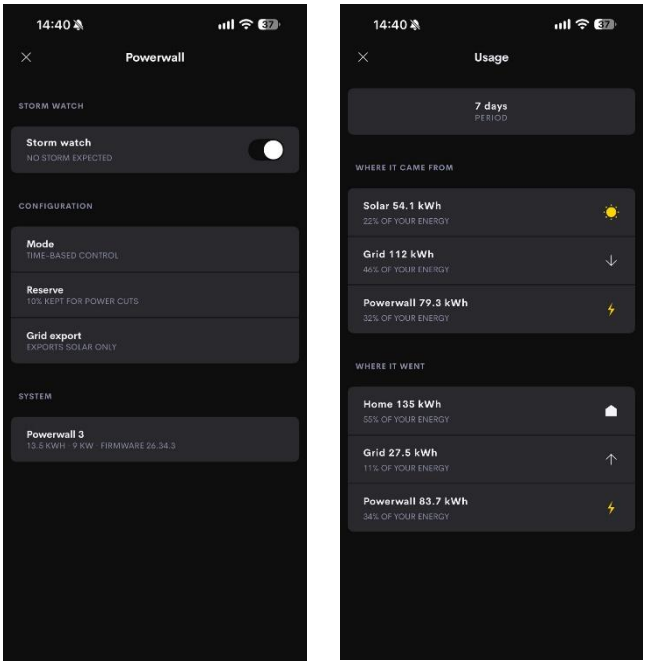
Powerwall

The tile shows charge and what the Powerwall is doing: charging, on battery, exporting, using grid, standby, a power cut or Storm Watch. The main page shows the gauge, the home's use, solar and the grid. Readings update every minute.



Screenshots 21 and 22: The Powerwall tile (left), the Powerwall's main page (right).

The Powerwall page shows Storm Watch, the operating mode, backup reserve and grid export. The Usage page shows energy for yesterday, the last 7 days or the last 30 days, fetched from Tesla once a day.



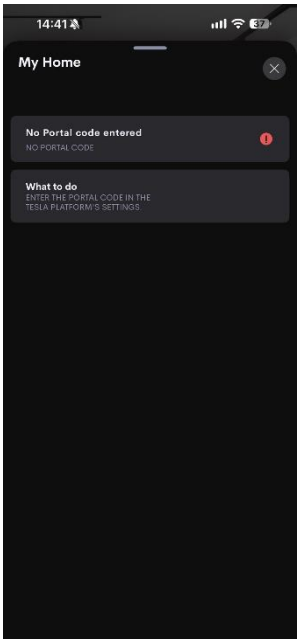
Screenshots 23 and 24: The Powerwall page (left), the Usage page (right).

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When Something Is Wrong

If a car or Powerwall can't work, its tile and page show what is wrong and what to do, instead of the usual pages. It recovers by itself once the problem is fixed, and the problem is also written to the error log.

Tile shows	Cause	What to do
No Portal code	No authorisation code entered.	Enter it in the platform.
No licence	No free licence for this device.	Add one, or untick another.
Licence expired	Expired or cancelled.	A new licence is required.
Licence problem	Not valid for this connection.	Check it in the portal.
Can't check licence	The licence server is unreachable.	Check the Internet, or reboot.
Sign in to Tesla	Tesla refused the linked account.	Connect it again in the portal.



*Screenshot 25: A tile showing the **No Portal code** message.*

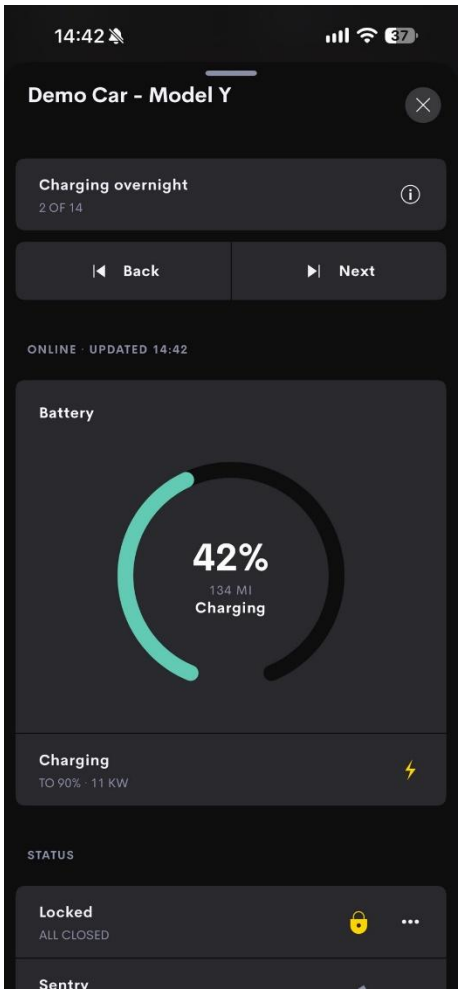
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Demo Mode

With Demo Mode on, the Demo Car and Demo Home each show which example they are on, with **Back** and **Next** buttons to move between them. Use them to show a homeowner what the driver does, or to check the tiles on each type of touch panel.

- **Demo Car:** 14 examples, including charging overnight, out driving, left unlocked, warming up before a trip, Dog mode, Sentry Mode, a tyre warning and asleep.
- **Demo Home:** 14 examples, including charging from solar, exporting, a power cut, Storm Watch, no solar and waiting for data.

The demo devices' commands appear to work but send nothing, and they never fire events or use a licence. The Demo Car starts without an action bar, which you can turn on from its Settings to try it. Untick **Demo Mode** to remove them. Real devices are not affected.



*Screenshot 26: The Demo Car, in the **Charging Overnight** state, showing its Back and Next buttons.*

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How the Driver Talks to Tesla

Every request goes through Ultamation's service, which checks the licence before passing it to Tesla. Tesla charges for car data, commands and wake-ups, so the service sets a weekly limit for each (see "Usage Limits"). The driver keeps to a minimum: it never wakes a car just to read it, and most of what it asks for is free.

What	How often	Notes
Linked Tesla accounts	Every minute until found	From the Ultamation portal, once the authorisation code is entered. Free.
Cars and Powerwalls on each account	Once, after the accounts are found	Again only after a restart or a new code. If something fails, retries slow to once an hour. Free.
Licence check	At start-up, then regularly	Only with Ultamation's licensing server.
Car state	Every 10 minutes	Online, asleep or offline. Never wakes the car. Free.
Tesla's alerts	Every 10 minutes	Free.
Car data	Every 10 minutes, while awake	Never wakes the car. Counts as vehicle data.
Last known data	When the car falls asleep, or at start-up if it is asleep	Tesla's saved copy of the car's last report. Free.
Car data after a command	Once, about 10 seconds later	Checks what changed. Skipped if the car is asleep. Counts as vehicle data.
Wake-up	When Wake is pressed, or before a command if the car is asleep	Counts as a wake-up. The driver then checks the car's state for up to a minute.
Commands	When pressed, or run by a sequence	Counts as a command.
Powerwall readings	Every minute	Free.
Powerwall settings	Every 15 minutes, and shortly after a Storm Watch change	Shown in the driver. Most are changed in the Tesla app. Free.
Storm Watch on or off	When pressed, or run by a sequence	Free.
Powerwall usage	Once a day	The month so far, plus last month when days are missing. Counts as Powerwall history.

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Troubleshooting

In Crestron Toolbox, open the Console Tool, connect to the processor and type **"ERR"** to see the error log. The driver's lines start with "Ultamation".

A Car or Powerwall Doesn't Appear

- Check that the authorisation code in the platform matches the portal.
- Check that the device shows in the Tesla app for the linked account.
- Look in the error log for the reason a product was skipped.
- Devices added to the Tesla account after the driver started need a processor restart.

Commands Don't Work

- Check that the virtual key has been added to the car. See "Before You Start".
- Check **"Climate and Sentry Mode Controls"**, and **"Security Controls"** for locks, windows, boot and frunk.
- The car's Activity page shows Tesla's reason for a failed command.

The Car Shows Old Data

This is expected while the car is asleep or offline. The tile says "Asleep" or "Offline" and shows the last data Tesla reported. Press Wake, or open the Tesla app, for fresh data.

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Upgrading From Version 1

Version 2 is a major update and should be treated as a breaking change. We recommend a clean install:

1. Remove the version 1 Tesla platform and its devices from Crestron Home.
2. Install version 2 and set it up from the start, as described in "Installation".
3. Check your sequences and quick actions that use the car or Powerwall and set them up again where needed.

If the Tesla account was linked through the legacy Ultamation OAuth portal, which did not need you to sign in, please sign in to https://portal.ultamation.com and check that the account is still linked and up to date. If you are unsure, check anyway. See "Connecting a Tesla Account".

Support

If you have any issues with the driver or installation, please contact Ultamation support at support@ultamation.com with as much detail as possible, such as a recent processor error log. Licence messages are written to the error log, so please check it first.

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Licensing

This driver, including its software, images and other assets, is licensed PER DEVICE, PER PROCESSOR as a subscription. Cars and Powerwalls are licensed separately, and each car and Powerwall used on each Crestron Home processor needs an active licence. There is no trial period, because of Tesla's authentication requirements.

Licences are linked at purchase to the details provided then, so please check them carefully. Purchases are non-refundable. The licence lasts for the subscription term, and subscriptions renew automatically until the purchaser cancels them.

The driver relies on services run by Tesla, an independent third party, which may change or end them at any time without notice. This would stop the driver working. Ultamation may also end the service for any reason.

The driver is provided without warranty for the reliability of the controlled device or changes to its protocol. We will use our best efforts to maintain it, and bug fixes are free of charge.

Features that affect the security of the car are off by default. If you turn them on, you do so at your own risk and must inform the end user of any risk. Ultamation accepts no liability for their use. Users should not rely on the driver for safety-critical or security notifications, and should always refer to the car or Powerwall itself.

To the maximum extent permitted by law, neither Ultamation nor the third party will be liable for any use of, interruption to, delay in or inability to use the driver. Ultamation's cloud service holds the Tesla account's sign-in tokens and the processor's MAC address in order to pass requests to Tesla, and keeps counts of usage. It does not store the car's data or location.

Cloud Licence

There is no licence key. Each car and Powerwall checks its licence with Ultamation's licensing server when it starts and regularly after that. Without one, the device shows "No licence" and sends nothing to Tesla.

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