

SMARTCAR PLATFORM DRIVER FOR CRESTRON HOME

Revision: 1.00

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CRESTRON HOME ONLY

This document describes the configuration of the Smartcar Platform Driver for Crestron Home only. Please note that this driver will only work on Crestron Home processors running OS 4 and above.

SUPPORTED INSTALLATION

The driver is compatible with all cars that are supported by the Smartcar API. Some manufacturers may require further payment for access through this API. This payment is independent of Ultamation, and are not Ultamation's responsibility. To check if your car is accessible through the Smartcar API, follow this link, select your manufacturer and model: <https://connectyourcar.com/compatibility/makes/>.

Within the range of cars compatible with the Smartcar API, different vehicles have different capabilities, and therefore supply different data to the Smartcar API. Our driver attempts to show the data listed below under 'Module Description'. We recommend cross-referencing that list with the table at the following link to determine if your vehicle can supply that data: <https://smartcar.com/product/compatible-vehicles>.

Please also note that this driver is licenced on a per-vehicle, per-processor basis. Each licence purchase will allow one vehicle to be displayed with current information at a time on one processor.

MODULE DESCRIPTION

The vehicle device displays data such as:

- Battery/Fuel Percentage
- Charging status
- Tyre Pressure
- Odometer
- Oil Life

DEVICE AUTHENTICATION

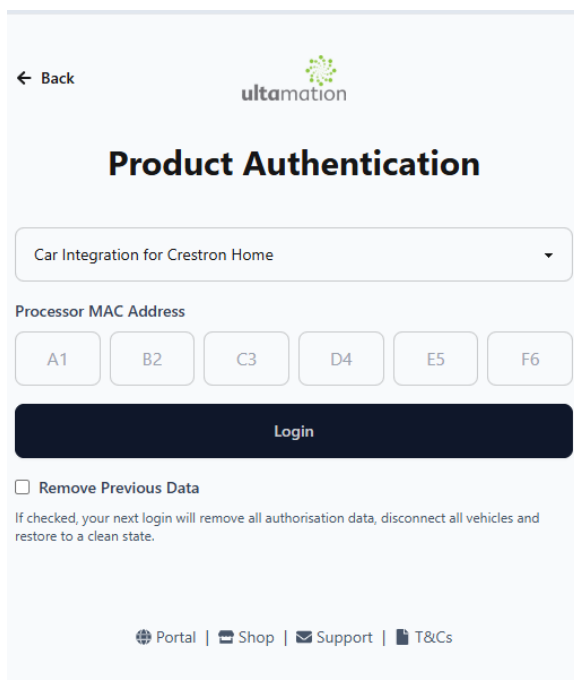
This driver implements Smartcar's secure OAuth framework to access your data. To associate the processor with an account please follow the steps below. For a

configuration with multiple accounts, this process will need to be repeated for each account.

ADDING AN ACCOUNT

1. Navigate to our OAuth portal at <https://portal.ultamation.com> and select 'Product Authentication'. On this page, select 'Car Integration for Crestron Home'.
2. As shown in Figure 1, enter your MAC address into the field.
3. Click "Login", where you will be navigated to Smartcar's login page. Here you will see some information provided by Smartcar. You will be able to add an account from your car manufacturer.
4. Once the account has been authenticated, you will be redirected back to the portal displaying a result message, with a successful result shown in Figure 2.
5. On Figure 2, you will see an Authorisation code. This must be input during installation of the driver for it to function correctly.

In the case that a car is added when there are already the same number of cars as there are licences (for example, you have 3 licences and attempt to add a 4th car) the least recently added car will be removed, and the new one will be added.



The screenshot shows the 'Product Authentication' page for 'Car Integration for Crestron Home'. It features a 'Processor MAC Address' section with six input fields labeled A1 through F6. Below these fields is a prominent 'Login' button. At the bottom, there is a checkbox for 'Remove Previous Data' with a note explaining its function. The page includes a 'Back' link, the 'ultamation' logo, and a footer with links to Portal, Shop, Support, and T&Cs.

Figure 1: OAuth portal product page for Smartcar.

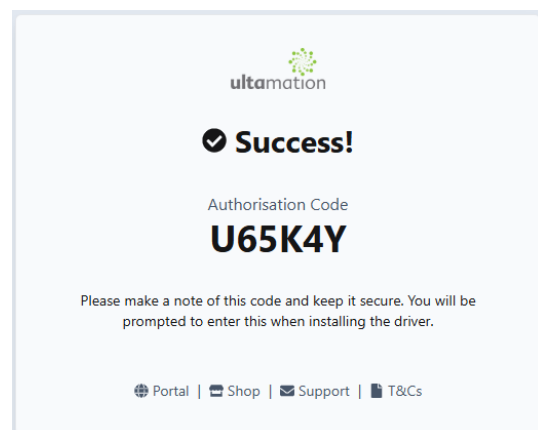
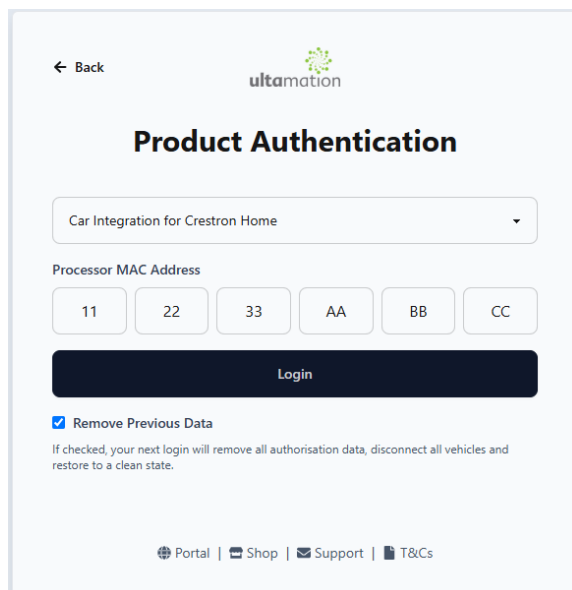


Figure 2: OAuth portal result page.

REMOVING AN ACCOUNT

1. Navigate to our OAuth portal at <https://portal.ultamation.com> and select 'Product Authentication'. On this page, select 'Car Integration for Crestron Home'.
2. As shown in Figure 1, enter your MAC address into the field.
3. Tick the box marked 'Remove Previous Data'
4. Click "Login", where you will be navigated to Smartcar's login page. Here you will see some information provided by Smartcar. You will be able to select an account from your car manufacturer.
5. Once the account has been removed, you will be redirected back to the portal displaying a result message, with a successful removal result shown in Figure 2.



The screenshot shows the 'Product Authentication' page on the ultamation portal. At the top, there is a 'Back' link and the ultamation logo. Below the title, a dropdown menu is set to 'Car Integration for Crestron Home'. Under 'Processor MAC Address', there are input fields for '11', '22', '33', 'AA', 'BB', and 'CC'. A large dark blue 'Login' button is positioned below these fields. A checkbox labeled 'Remove Previous Data' is checked. Below the checkbox, a note states: 'If checked, your next login will remove all authorisation data, disconnect all vehicles and restore to a clean state.' At the bottom, there are links for 'Portal', 'Shop', 'Support', and 'T&Cs'.

Figure 1: OAuth portal product page for Smartcar.

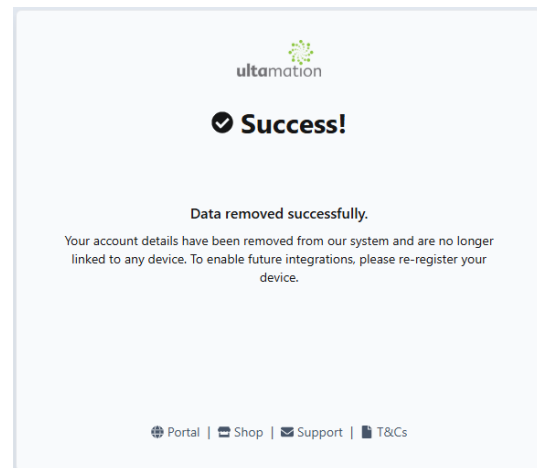


Figure 2: OAuth portal account removal result page.

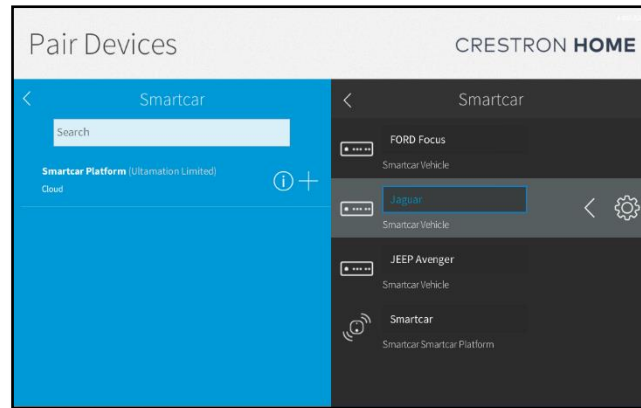
REMOVING ACCESS TO OUR APPLICATION

You can manage your connection to our application through mySmartcar: <https://my.smartcar.com/login>. Here you can revoke access to your data.

INSTALLING THE DRIVER

After importing the driver, it will be found under:

Devices > Platform > Smartcar



Adding the Tile

Ensure a room is selected, and then click on the '+' against the Smartcar Platform.

You will be asked to provide a descriptive name for the tile, this can be anything you like. You will also be asked for an authorisation code – this is provided during the device authentication process described above.

Shortly after the driver is added, it will attempt to retrieve car information from the cloud, and make your vehicles available in Crestron Home. These will be under Managed Platforms > Smartcar. If after a few minutes, there are no vehicles in this menu, check the error log on your Crestron processor.

When adding vehicles, you will be prompted for a name – this can be whatever you like. This is what will be shown on the tile for the car.

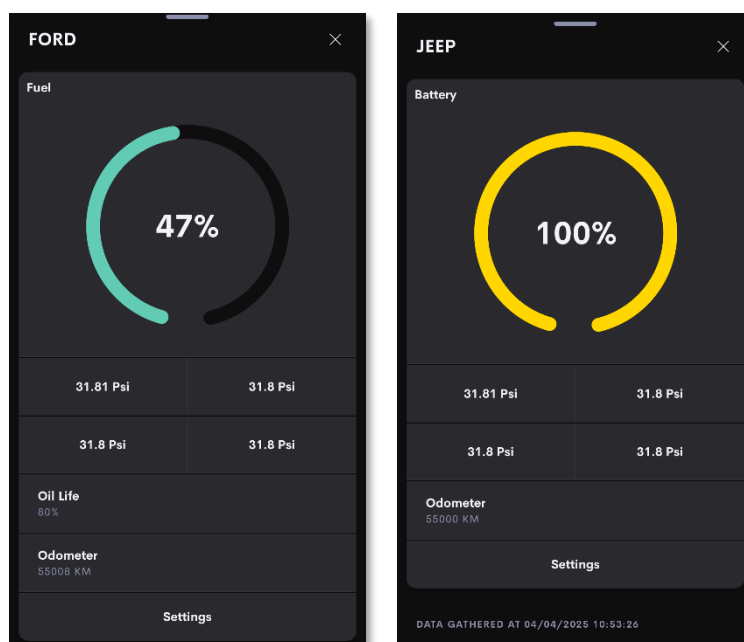
You will then be shown 3 checkboxes:

- Show in room page: Determines if the tile is shown in the page of the room it is placed in.
- Show on home page: Determines if the tile is shown on the processor's home page.

On the next page, a text box is provided to enter the time during which the driver will poll. Due to strict rate limits, we are restricted to 12 hours.

The number provided is the 24-hour clock value of when polling will be enabled from and for the 12 hours following. For example entering "14" will enable polling from 2pm to 2am.

Using the Driver



Above, the driver is shown with an internal-combustion engine vehicle (left) and electric vehicle (right). First is shown fuel/battery capacity, tyre pressure, oil life (if supported), and odometer.

Clicking "Settings" presents a screen to adjust values at which Crestron Home events will be triggered for battery/fuel level. Note: the driver polls once per hour, so this event may be triggered with up to a 1 hour delay.

SUPPORT

If you have any issues with a driver or installation please let us know by contacting Ultamation support on support@ultamation.com and please include as much detail about your issue as possible, such a recent processor error log.

Licence verification messages are posted to the error log, so please ensure you have checked this.

LICENCE

This module (including software, images and any and all other associated assets distributed as part of the purchased download package) is licenced on a PER DEVICE, PER PROCESSOR instance and is purchased as a subscription which is compatible with a third party product/service.

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As the Ultamation product connects with, and is therefore reliant upon, a service which is operated by an independent third party, it is possible that the third party may terminate that service or subscription at any time for any reason, without notice. This would consequently cease operation of the Ultamation driver. Ultamation may also terminate the service for any reason.

There is no licence key for this module. Licencing is done through our cloud service. The module is provided without any warranty with respect to the reliability of the controlled device or changes to device protocol. We will endeavour, through best efforts, to maintain the module's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this module and this will be a separate, purchasable, product.

The driver may include features which affect the security of the controlled device. The driver provides a mechanism to disable these features and these are disabled by default. If you do choose to enable these features you do so at your own risk and it is your responsibility to inform the end user of any potential risk. Ultamation accepts no liability for the use of such functions or loss or damage resulting from their use.

Ultamation or the third party does not guarantee that users will receive any notification about events affecting any status, including safety-critical or security-related events through the driver and should always refer to the controlled device.

To the maximum extent permitted by Law, in no event will Ultamation or the third party, be liable for any use, interruption, delay or inability to use the driver.

Ultamation do not collect, use, store or disclose any personal or device data.