



User manual



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# Introduction

## Foreword

Welcome to the manual of the Crash Recovery System, the mobile vehicle information database for rescue workers all around the world.

The Crash Recovery System (CRS) enables rescue workers to extricate patients quickly and safely from a crashed vehicle. Within a few seconds, the system generates a complete overview of all components of the Supplemental Restraint Systems in the vehicle.

The software also provides important information about the location and deactivation of each safety component.

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## Technical specifications / System requirements

### Microsoft Windows

Hardware:	All hardware
Windows system:	Windows 10 Fall update

### iOS

Hardware:	All hardware (tablets recommended)
iOS-version:	iOS 9 and later versions

### Android

Hardware:	All hardware (tablets recommended)
Android-version:	5.0 and later versions

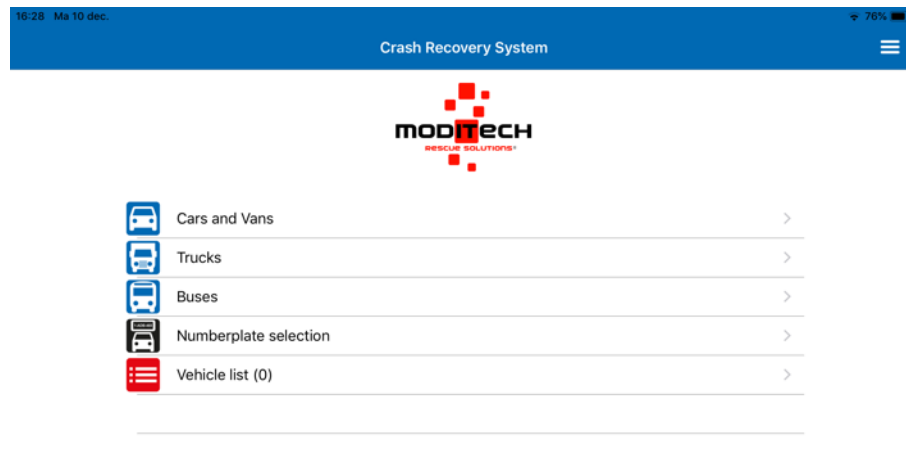
# 1. Operation instruction

## 1.1 Introduction

This chapter explains all operating commands and menus for the iOS.

## 1.2 Main window






After launching the Crash Recovery System (CRS) the main window appears:



**NOTE:** The above screen is the opening screen of a CRS RDW edition. The opening screen may differ depending on the CRS edition. Visit [moditech.com](http://moditech.com) for more information on all available CRS editions.

**NOTE:** Consult the [CRS Installation](#) manual for more information on installing the Crash Recovery System.

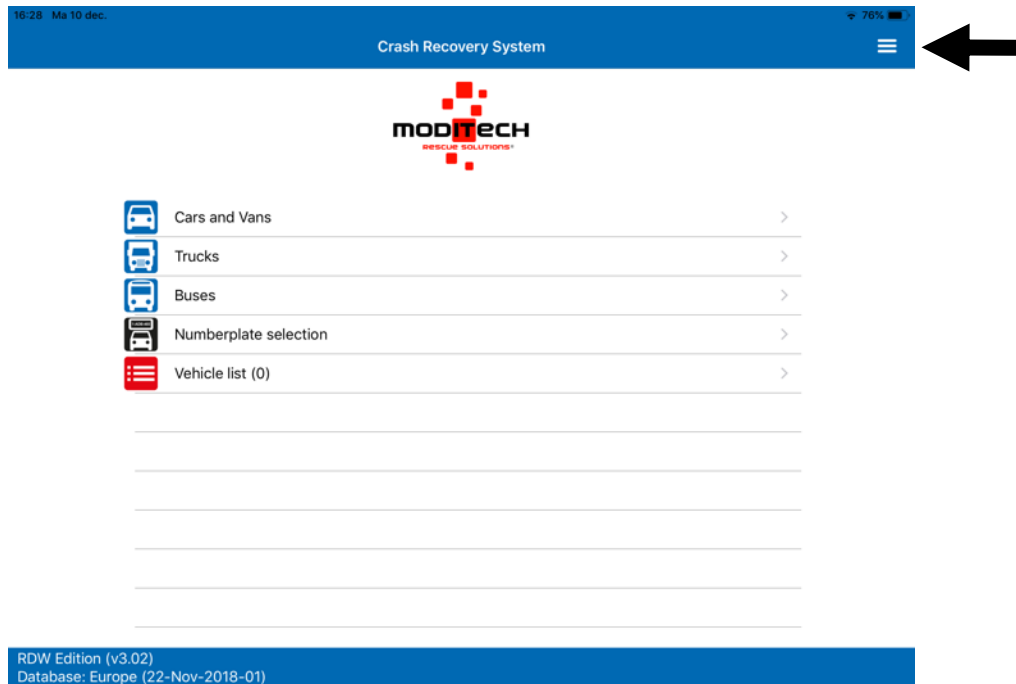
### Explanation buttons:

-  Click the [Cars and Vans](#) button to select a new vehicle (a car or a van). There appears a list with all vehicle makes, linked to the selected database.
-  Click the [Trucks](#) button to select a new vehicle (a truck). There appears a list with all vehicle makes, linked to the selected database.
-  Click the [Buses](#) button to select a new vehicle (a bus). There appears a list with all vehicle makes, linked to the selected database.
-  Click the button [License plate selection](#) to select a vehicle model using the license plate number. This functionality is only available in the RDW editions.
-  Click the [Vehicle list](#) button to switch quickly between the selected vehicles in the Vehicle list. The number in brackets shows the number of selected vehicles in the Vehicle list.

## 1.3 Settings

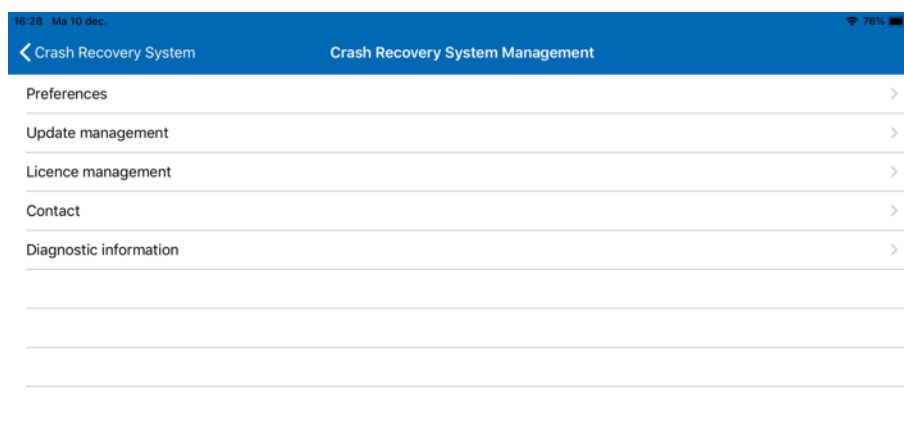
This paragraph explains all options in the [Settings](#) menu.

In the [Settings](#) menu it is possible to change settings such as the language and the database of the CRS. Click the Settings button in the upper right corner to view the options in the CRS.



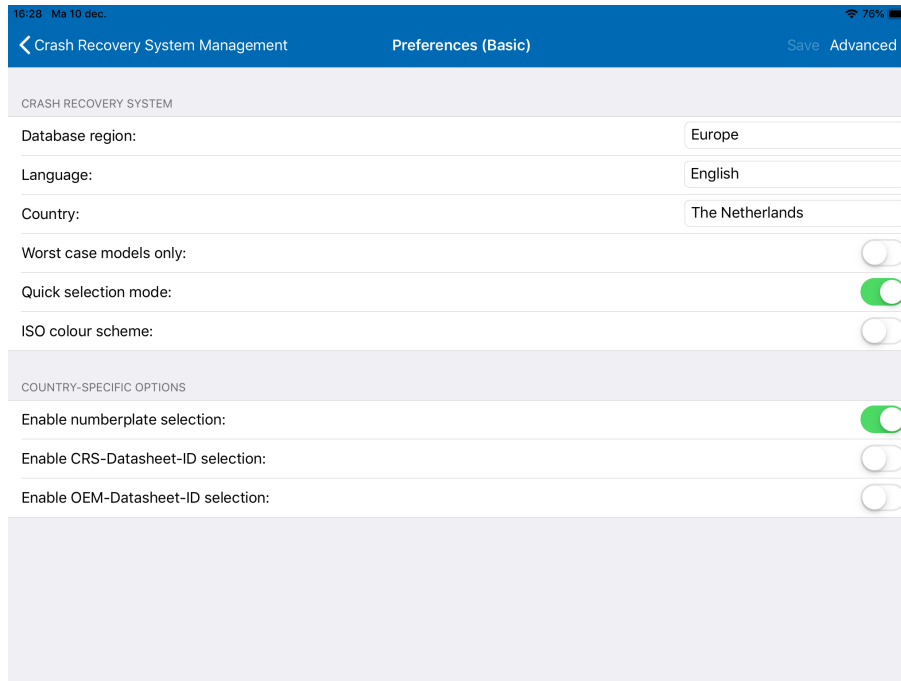
After clicking this button, the Settings menu appears.

The window below displays the [Settings](#) menu.



## Settings > Preferences (Basic)

The **Preferences (Basic)** menu displays all options of the Crash Recovery System, such as the database and the language. The image below shows the Preferences (Basic) menu.



16:28 Ma 10 dec. 76%

< Crash Recovery System Management Preferences (Basic) Save Advanced

CRASH RECOVERY SYSTEM

Database region: Europe

Language: English

Country: The Netherlands

Worst case models only: ☐

Quick selection mode: ☒

ISO colour scheme: ☐

COUNTRY-SPECIFIC OPTIONS

Enable numberplate selection: ☒

Enable CRS-Datasheet-ID selection: ☐

Enable OEM-Datasheet-ID selection: ☐

## Settings > Preferences (Basic) > Crash Recovery System

### Database region

Selects the database that will be used for the vehicle selection procedure.

### Language

Selects the language that will be used in all windows of the CRS.

### Country

The Country option shows an overview of the countries where number plate selection is available. If a vehicle image has to be requested of a Dutch vehicle - via the number plate selection option - Netherlands must be ticked here.

### Worst case models only

Shows the vehicles with all available options only (indicated by question marks). Select the Worst case models only button if the vehicle has no visible type of engine variant.

### Quick selection mode

Automatically jumps to the next selection level if only a single option is available during the manual selection.

### ISO colour scheme

Shows all CRS vehicle graphics in ISO colours (SS-ISO 17840-1:2015).

## Settings > Preferences (Basic) > Country-Specific Options

### Enable Numberplate selection

Enables or disables vehicle selection procedure by entering the license plate number of a vehicle.

### Enable CRS-Datasheet-ID selection:

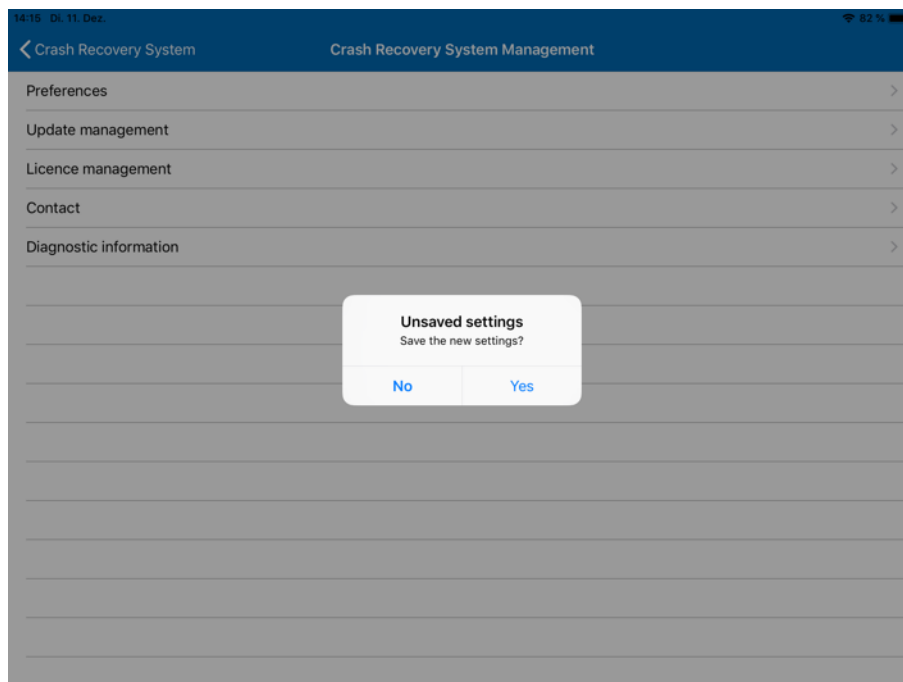
Enables or disables vehicle selection procedure by entering the CRS-Datasheet-ID.

### Enable OEM-Datasheet-ID selection:

Enables or disables vehicle selection procedure by entering the OEM-Datasheet-ID.

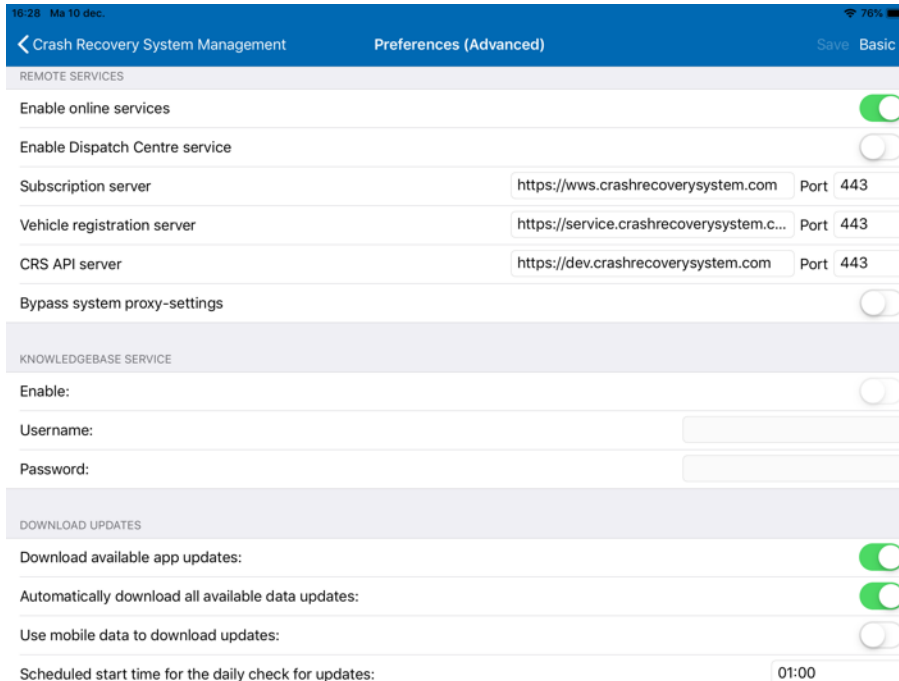
**NOTE:** If a change is made within Preferences, the [Save](#)-button will appear automatically in the top right corner. Click this button to save all changes.

**NOTE:** If the user does not save the changes and leaves the Preferences menu, the CRS will automatically ask whether all the changes should still be saved.



## Settings > Preferences (Advanced)

Select **Advanced** in the upper right corner of the Preferences (Basic) menu and more options appear (as shown below):



16:28 Ma 10 dec. 76%

< Crash Recovery System Management Preferences (Advanced) Save Basic

REMOTE SERVICES

Enable online services ☒

Enable Dispatch Centre service ☐

Subscription server  Port

Vehicle registration server  Port

CRS API server  Port

Bypass system proxy-settings ☐

KNOWLEDGEBASE SERVICE

Enable: ☐

Username:

Password:

DOWNLOAD UPDATES

Download available app updates: ☒

Automatically download all available data updates: ☒

Use mobile data to download updates: ☐

Scheduled start time for the daily check for updates:

## Settings > Preferences (Advanced) > Remote Services

### Enable online services

Select this option to perform online tasks, such as activating the Crash Recovery System, number plate selection, VIN selection and the implementation of data updates.

**NOTE:** All addresses in this section must be available for the Crash Recovery System.

## Settings > Preferences (Advanced) > Knowledgebase Service

### Enable

Enable the option Knowledge Base Server and enter the correct username and password that have been submitted to you by Moditech Rescue Solutions B.V. After entering the correct details, it is possible to download and add extra information to the Crash Recovery System.

## Settings > Preferences (Advanced) > Download Updates

### **Download available app updates**

The Download Available App Updates option is enabled by default in the CRS. This means that when checking for updates manually, it first checks whether a software update is available.

Beware: The check for software updates only occurs when manually checking for updates.

### **Automatically download all available data updates:**

Enable this option to automatically download and install all available data updates. This option is enabled as standard in the CRS. You will receive a notification when an update has been downloaded.

### **Use mobile data to download updates:**

If a data update or app update is ready for download - and no Wi-Fi connection is available - mobile data can be used to download the update. Enable this option to automatically use a mobile connection to download updates when Wi-Fi is not available.

### **Scheduled start time for the daily check for updates**

Sets a fixed, daily start time for checking updates.

### **Scheduled end time for the daily check for updates**

Sets a fixed, daily end time for checking updates.

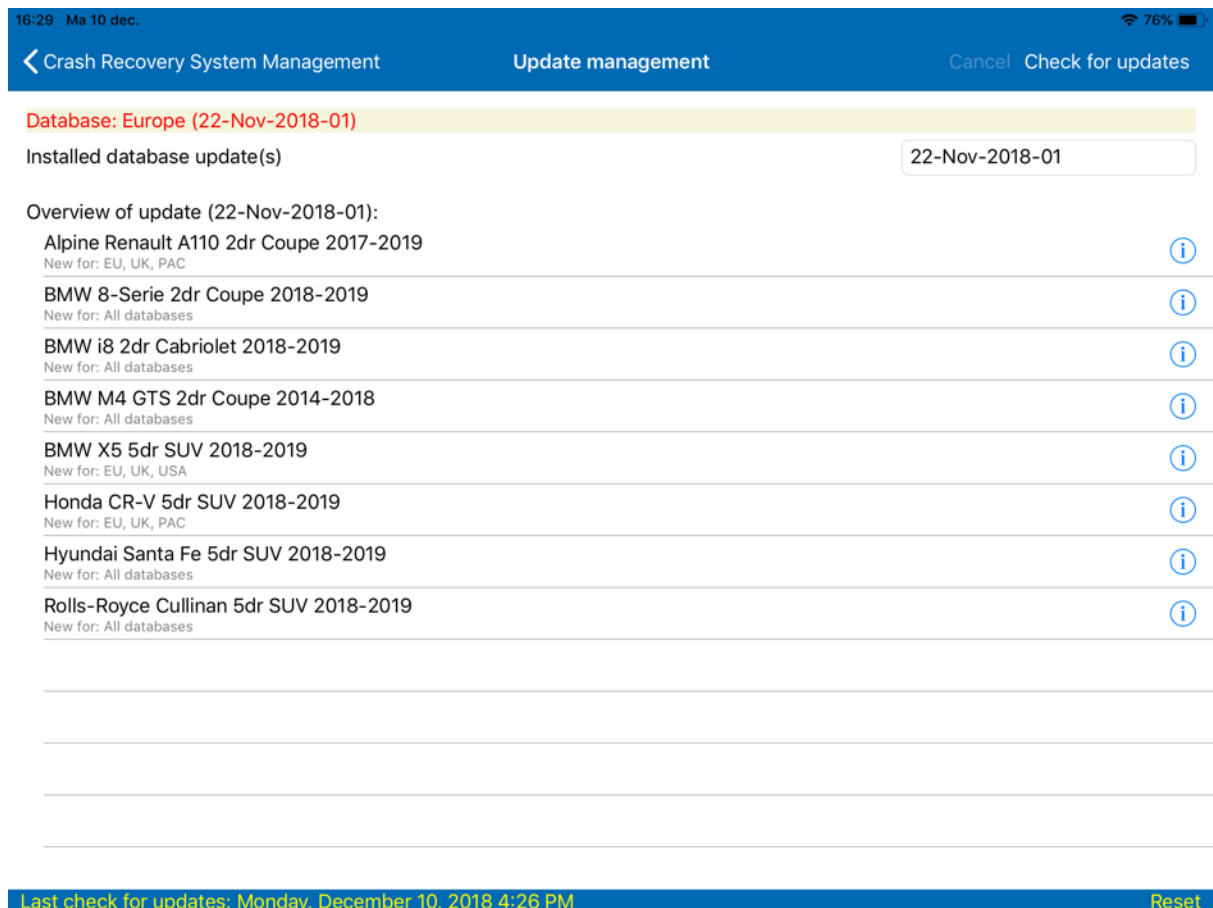
### **Update server**

In Update Server, server data can be adjusted to your preferences (server address, port, user name and password).

## Settings > Update management

Update management displays an overview of the latest installed update, with all vehicle datasheets that have been added to the Crash Recovery System. In addition, in this screen it is possible to search for new updates by clicking the [Check for updates](#) button in the upper right corner.

The last five updates of the Crash Recovery System can also be accessed by selecting the date. A dropdown menu appears, where you can click on previous updates.



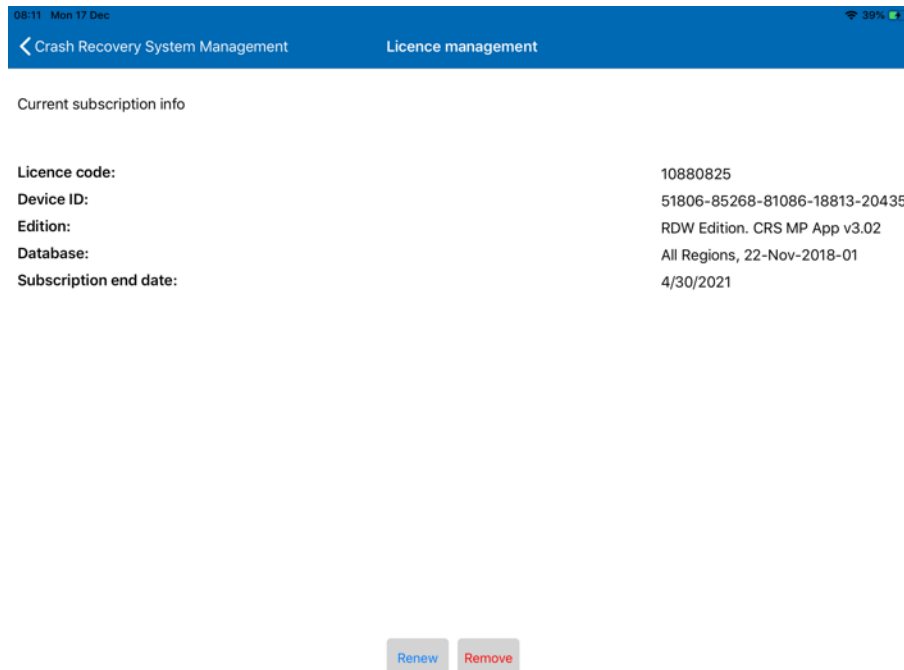
**NOTE:** Tap [Crash Recovery System Management](#) (in the upper left corner) to return back to the Settings menu.

**NOTE:** For updating the Crash Recovery System a mobile connection is a requirement.

## Settings > License management

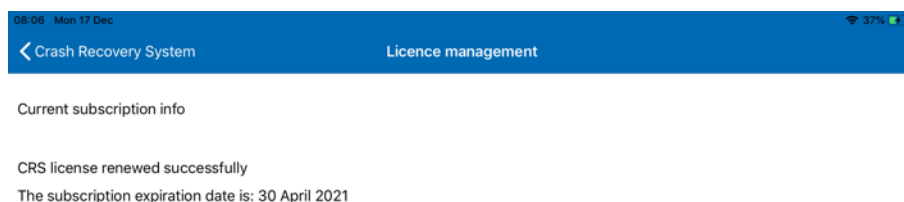
In License management it is possible to manage your license. This page shows information about the Crash Recovery System license, such as the license code, type of edition and end date.

In the screen below it is possible to [renew](#) or [remove](#) your license. Both actions will be explained below.



## Settings > License management > Renew License

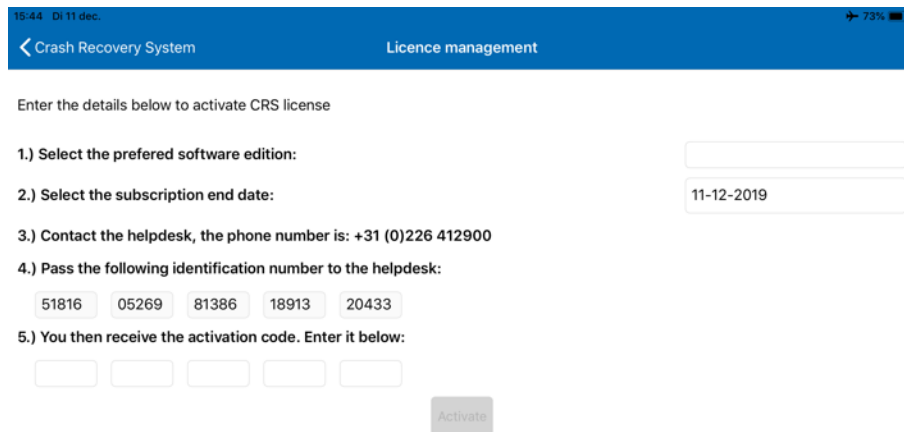
1. Select [Renew](#) in the License management menu to renew your Crash Recovery System license code till a new end date.
2. After selecting the [Renew](#) button a new screen appears, showing that the license code has been renewed successfully.



**NOTE:** The user can only renew his license online if the system manager has linked the relevant license code to the new end date. Consult your system manager for more information about the online renewal of your license.

## Settings > License management > Renew offline

The screen below appears automatically if no internet connection is available during the renewal procedure or when the system manager has not set a new end date for this license code. It displays an offline renewal procedure. Follow these steps to renew the license of the Crash Recovery System.



15:44 Di 11 dec. 73%

< Crash Recovery System Licence management

Enter the details below to activate CRS license

1.) Select the preferred software edition:

2.) Select the subscription end date:

3.) Contact the helpdesk, the phone number is: +31 (0)226 412900

4.) Pass the following identification number to the helpdesk:

5.) You then receive the activation code. Enter it below:

Follow all steps below to renew your license offline

Step 1: Select the preferred software edition.

Step 2: Set the subscription expiration date.

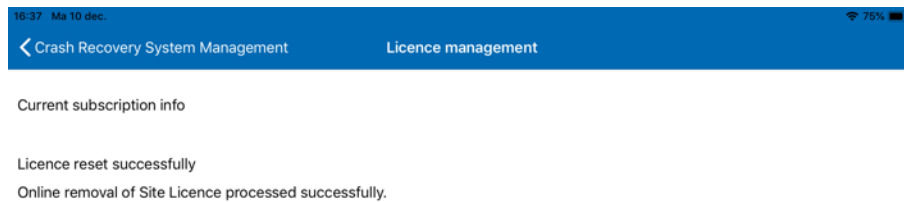
Step 3: Contact the helpdesk of Moditech Rescue Solutions B.V.

Step 4: Pass the following identification number to the helpdesk.

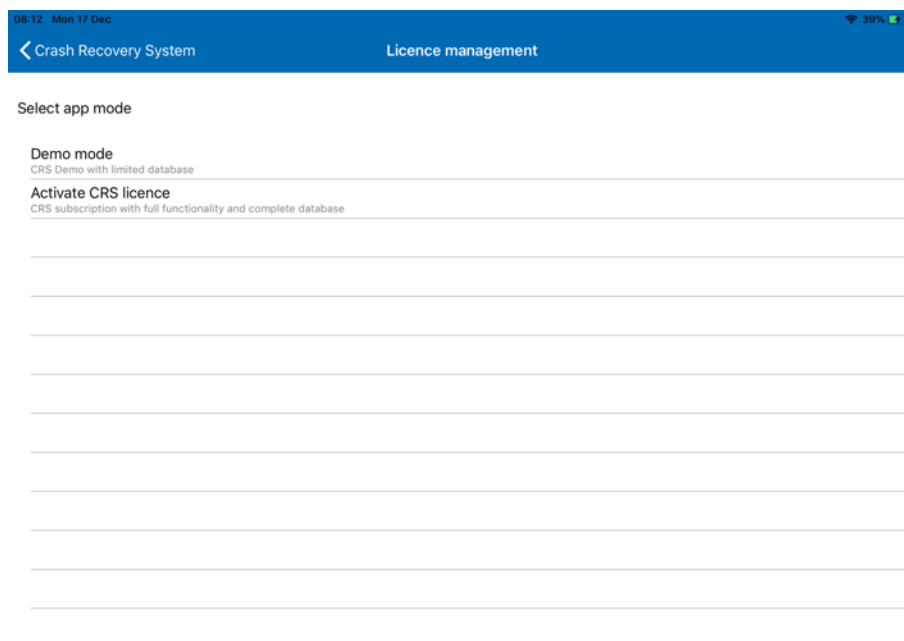
Step 5: Enter the activation code and tap [Activate](#).

## Settings > License management > Remove License

1. In case you want to remove your license, click [Remove](#) in the License management menu.



2. When the user has deleted the license, the list with all demo editions appears. It is now possible to enter the license code on another device.

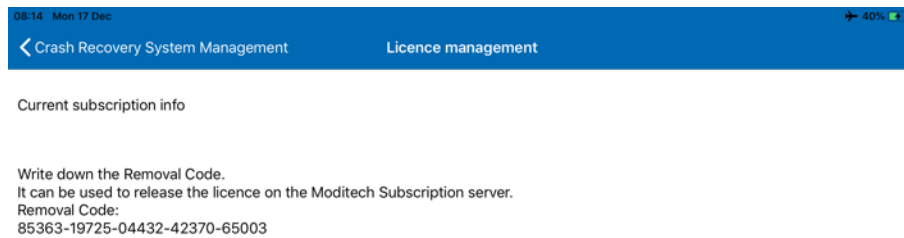


**NOTE:** See chapter 1.8 Demo mode on [page 33](#) for more information about the demo mode and activating the Crash Recovery System.

**NOTE:** Make sure the license code has been removed from your device, when you want to activate the license code on another device. Write the license code down. After removing the license code, you can delete the application from your device.

## Settings > License management > Remove license offline

In case no internet is available on your device the message below appears. Write down the removal code and contact the Moditech helpdesk.



## Settings > Diagnostical information

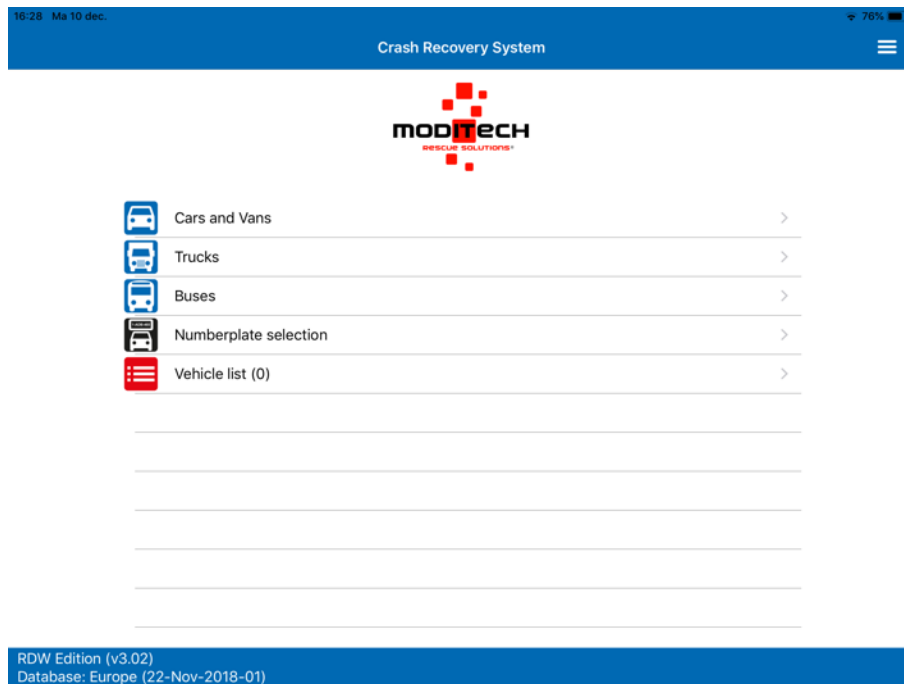
The Diagnostic Information option involves a list (log) of all tasks that the user and the system have performed and which relate to this licence of the Crash Recovery System.

## Settings > Contact

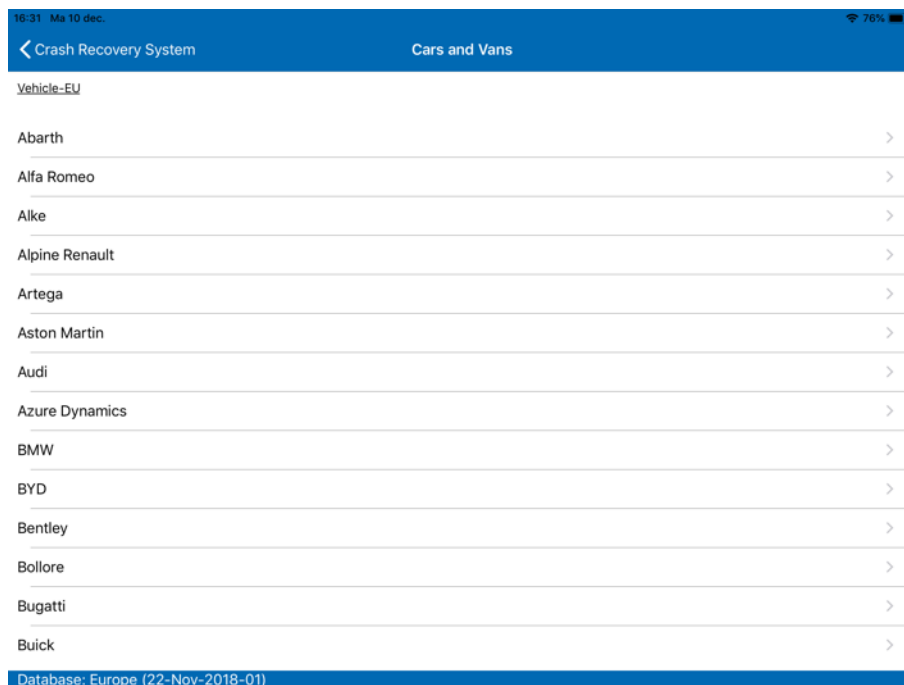
This option Contact displays our contact information. If you have any questions or suggestions about the product, contact us: [info@moditech.com](mailto:info@moditech.com).

## 1.4 Manual selection procedure new vehicle (Lite, STD and RDW Edition)

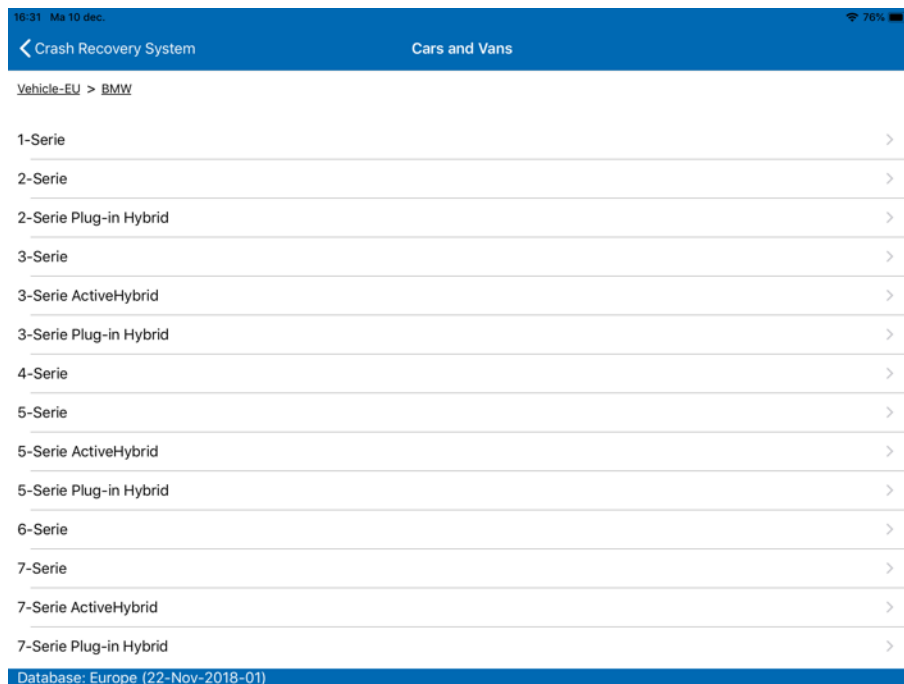
Click the [Cars and Vans](#) button to select a vehicle by make, model, body style and modelyear.



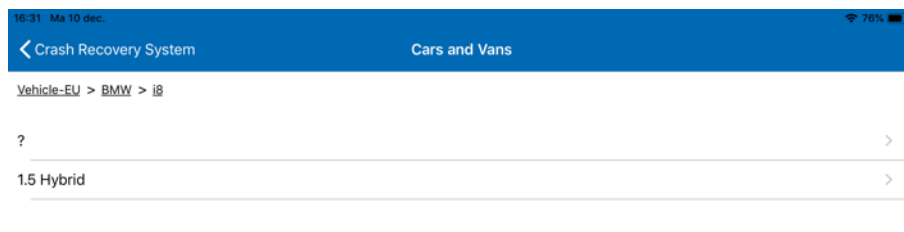
Select a vehicle make:



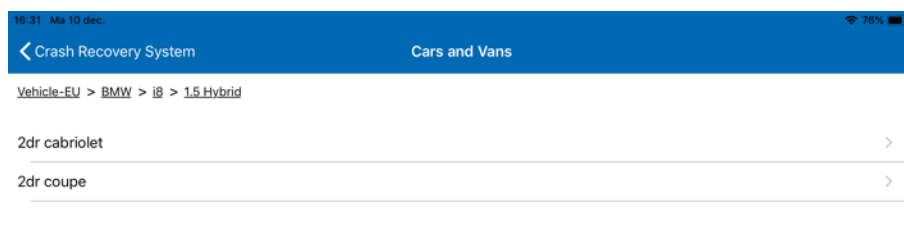
Click the desired model to select it. Available types appear:



After selecting the correct vehicle model, there appears a list with the possible engine variants. Select the '?' when the vehicle has no visible type of designation. The '?' is available to select the type with all available SRS options. We call this the **Worst case model**.

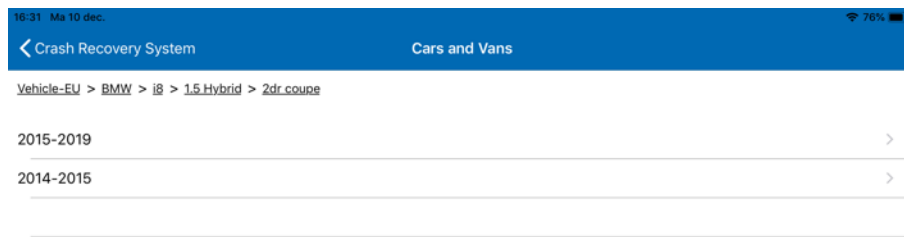


The next screen shows the body style. In this case there is one possible body style to select: the 4dr sedan.

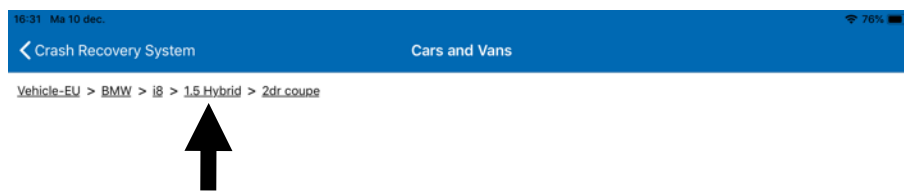


**NOTE:** If only one item is shown for selection, the software can move to the next selection level automatically if the option **Quick selection** is activated in **Preferences**.

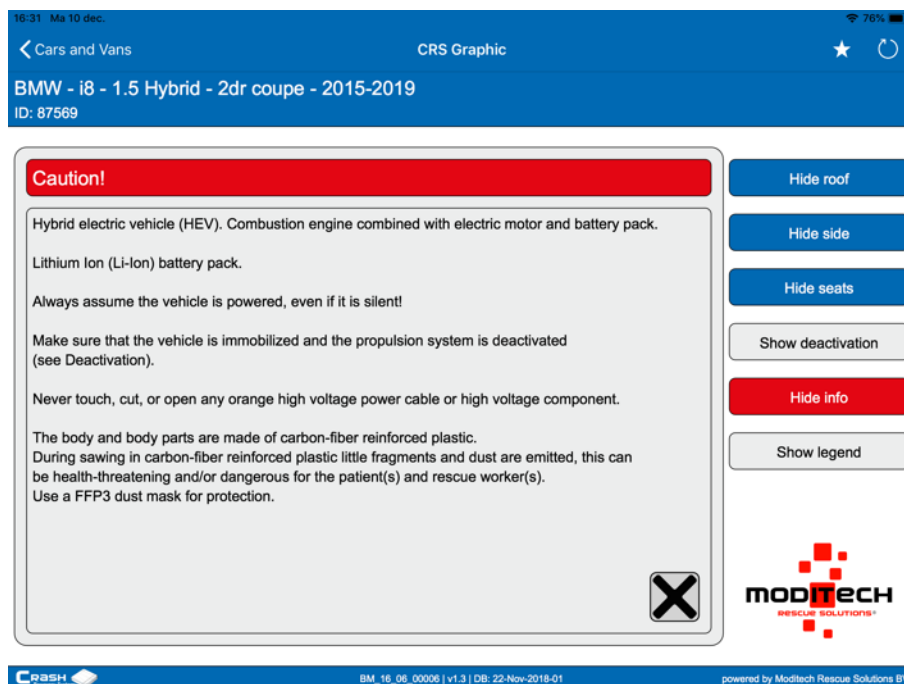
The last step in the vehicle selection process is the selection of the model year.



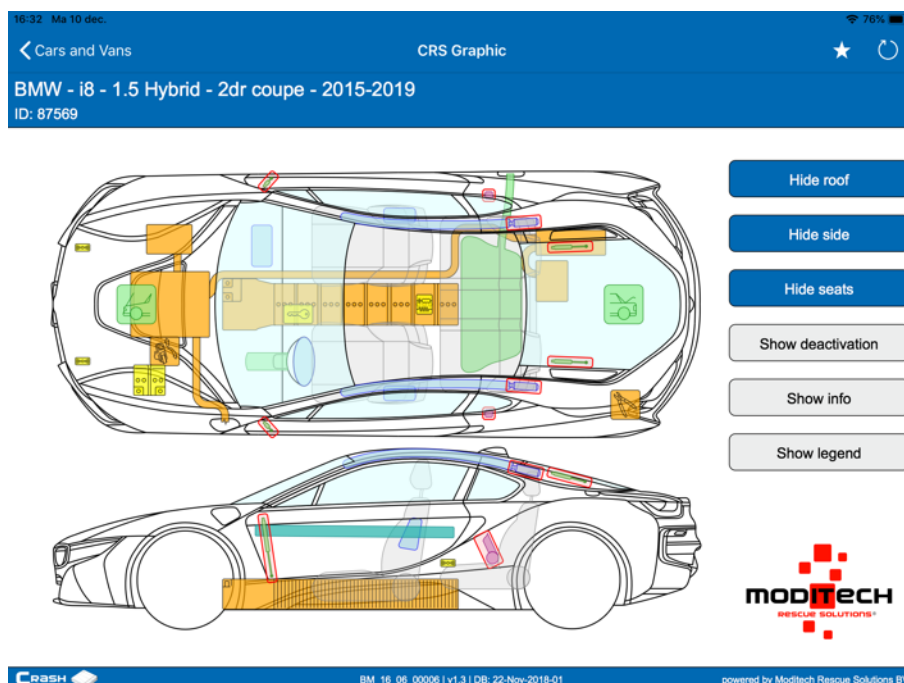
**NOTE:** During the selection process it is possible to step back to the previous selection level by clicking one of the previous options in the selection bar at the top of the CRS graphic.



If the selected model is an alternative fueled vehicle (e.g. electric or hybrid), a warning screen appears immediately. This warning screen displays important information about the vehicle.

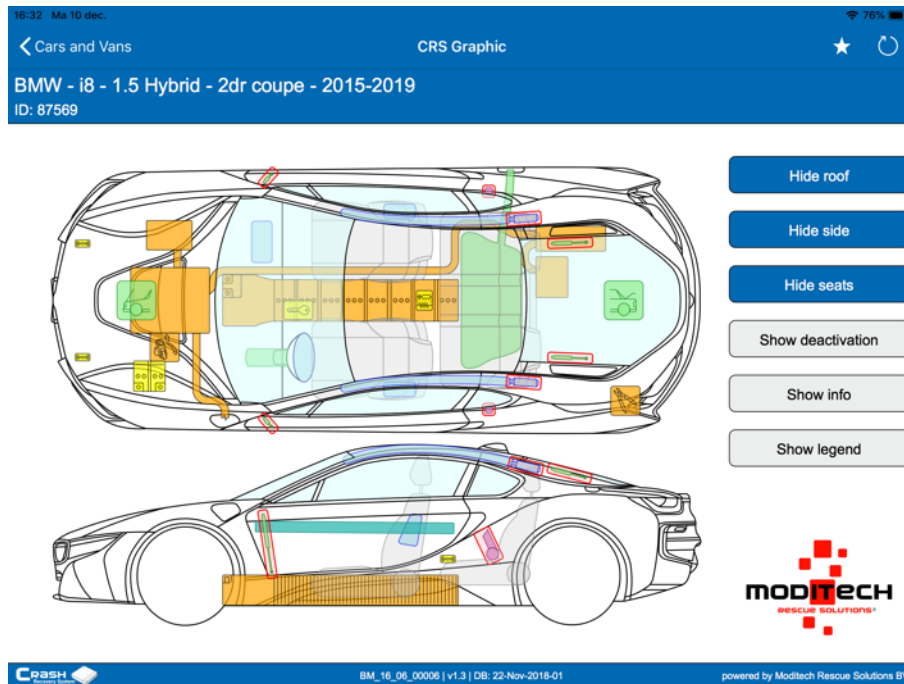


After clicking the [Cross](#)-button in the lower right corner, or the [Hide info](#)-button, the warning screen disappears and the selected vehicle is visible. If the vehicle is not an alternative fueled model, the datasheet will appear directly.



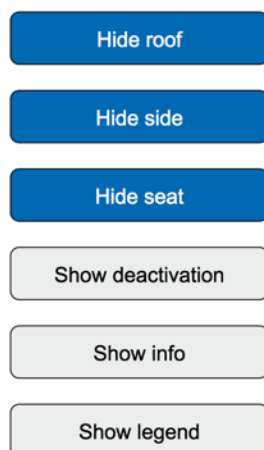
## 1.5 Datasheet

The CRS information sheet is an interactive graphic. In the graphic you can show or hide sections of the vehicle by clicking the [Hide/Show Roof](#), [Hide/Show Side](#), or [Hide/Show Seats](#) buttons. Click on any component in the graphic to retrieve detailed information. All components are shown at their true locations in the vehicle. The following example illustrates the functionality of the CRS information sheet.



### Datasheet > Buttons

The Hide/Show buttons are located at the right side of the window.



The buttons [Hide Roof](#), [Hide Side](#) and [Hide Seats](#) can be used to virtually remove parts of the vehicles as shown on the next page. Upon clicking, the buttons will change color. Hidden components can be re-displayed by clicking the buttons again.

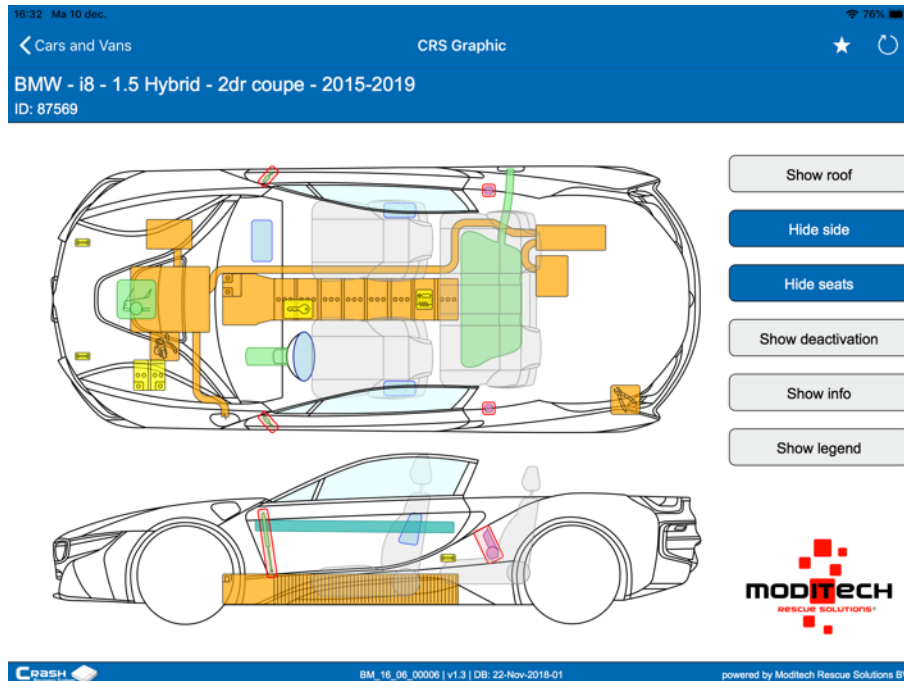
The buttons [Show Deactivation](#) and [Show Info](#) are used for several alternative fueled vehicles (e.g. hybrid vehicles). Clicking the buttons will open information windows with additional safety information and deactivation instructions. For more information see [page 20](#).

The button [Show Legend](#) will display the legend explaining all component groups used in the CRS information sheet. Refer to chapter 1.9 Component overview on [page 38](#) for a detailed description of all components.

**NOTE:** For more information about the buttons in the upper right corner see chapter 1.7 Vehicle list on [page 22](#).

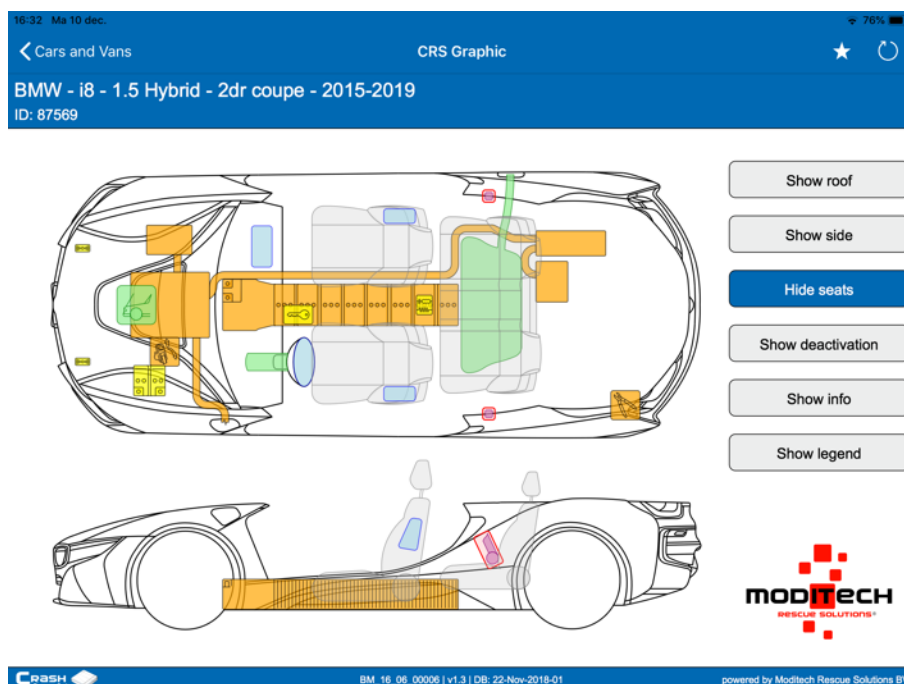
## Datasheet > Hide roof

Click the [Hide roof](#) button. The roof of the vehicle with its integrated components will be hidden. Now all components inside the vehicle become clickable, for example airbags and the steering column. The roof is re-displayed by clicking the [Show roof](#) button.



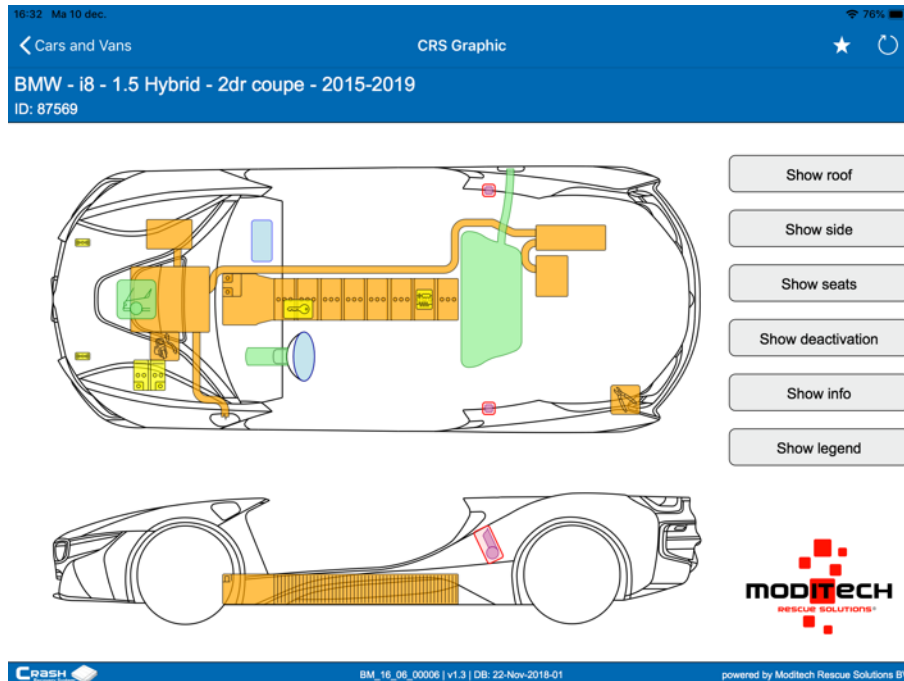
## Datasheet > Hide side

After clicking the [Hide side](#) button, the side of the vehicle with its integrated components will be hidden. The location of all components in the side of the vehicle becomes clear, for example the side airbags (located in the seat). These components are now clickable.



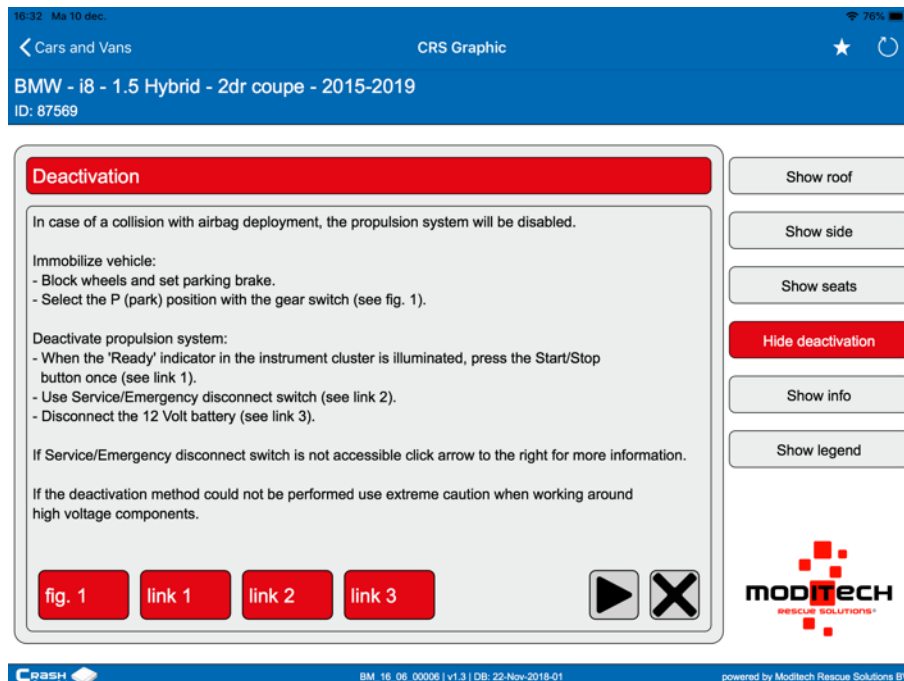
## Datasheet > Hide seats

After clicking the [Hide seats](#) button, the seats of the vehicle with its integrated components will be hidden. The seats are re-displayed by clicking the [Show seats](#) button.



## Datasheet > Show deactivation

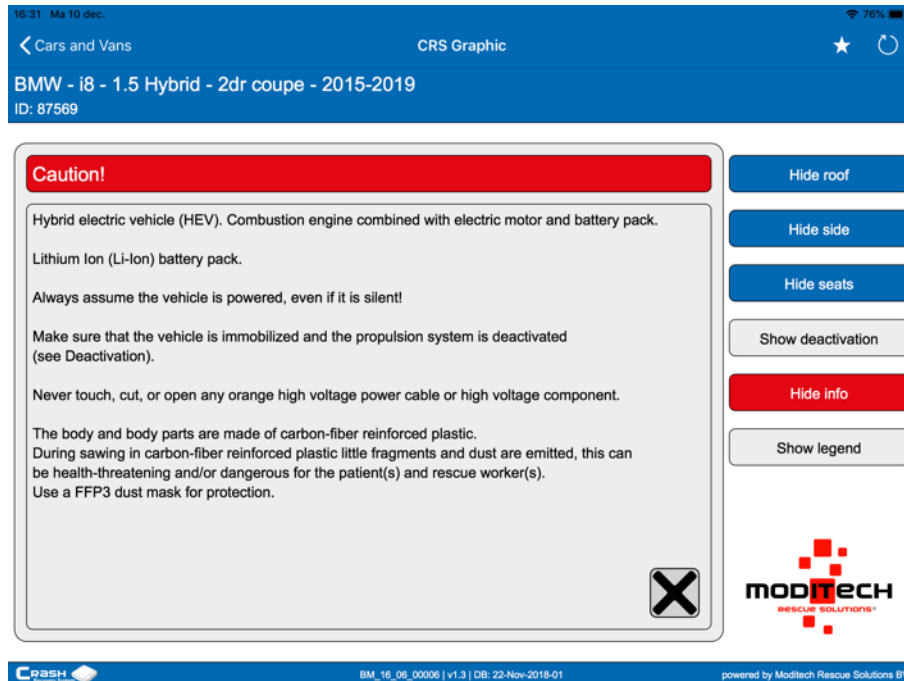
To show the step-by-step deactivation procedure click the [Show Deactivation](#) button. An information window will appear with all information regarding deactivation.



Select the [Cross](#)-button or [Hide activation](#) to close this screen. The CRS graphic will be visible afterwards.

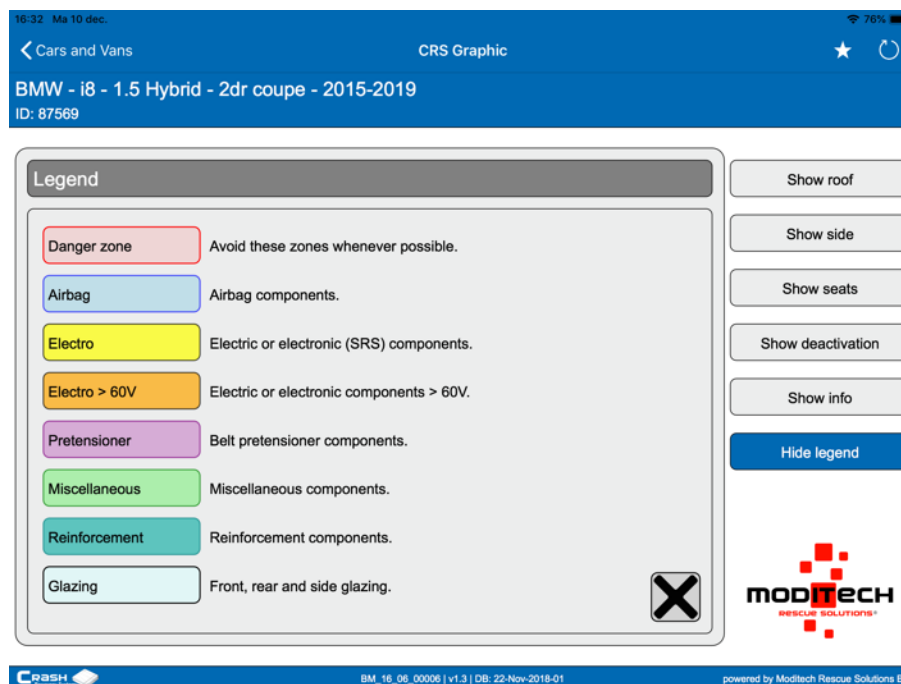
## Datasheet > Show info

If the selected model is an alternative fueled vehicle (e.g. electric or hybrid), the application displays a warning screen, showing risk-critical information about the specific vehicle. To close the window, use the [Hide Info](#) or [Cross](#)-button.



## Datasheet > Show Legend

The button [Show Legend](#) will display the legend explaining all component groups used in the CRS information sheet.

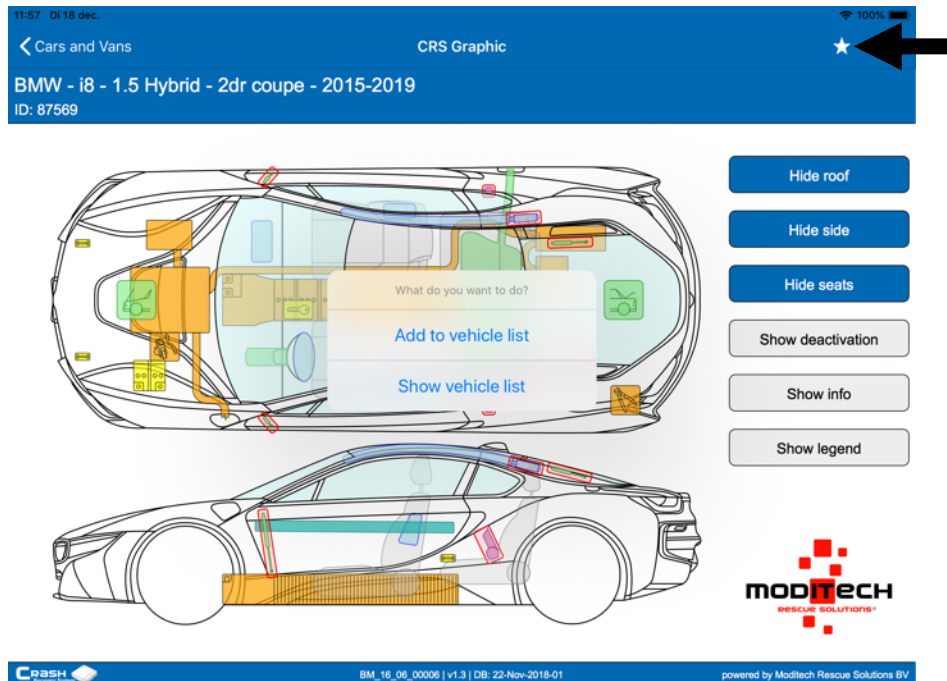


Click the [Cross](#) button, or the [Hide legend](#) button to remove the **Legend**.

## Datasheet > Vehicle list

This paragraph describes the [Vehicle list](#). With the Vehicle list the user can switch easily between selected vehicle datasheets.

Click on the star icon in the top right corner to quickly switch between the open vehicles within the Vehicle List. Then choose [Show Vehicle List](#). Select the desired vehicle here and the system will switch directly to the selected vehicle image.

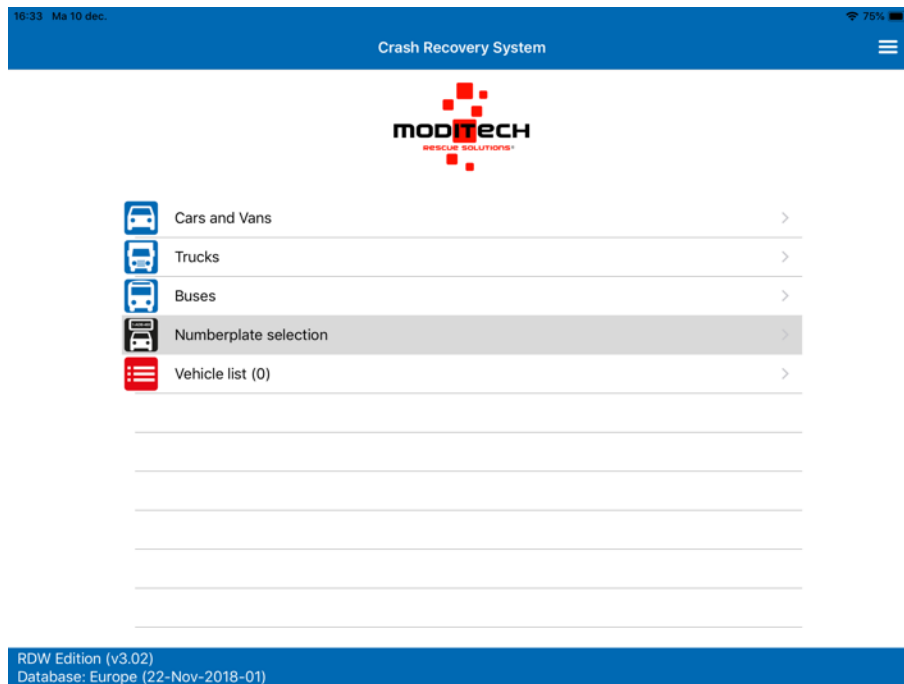


**NOTE:** Click outside the pop-up window to close this message. After this, all the buttons of the vehicle image are clickable again.

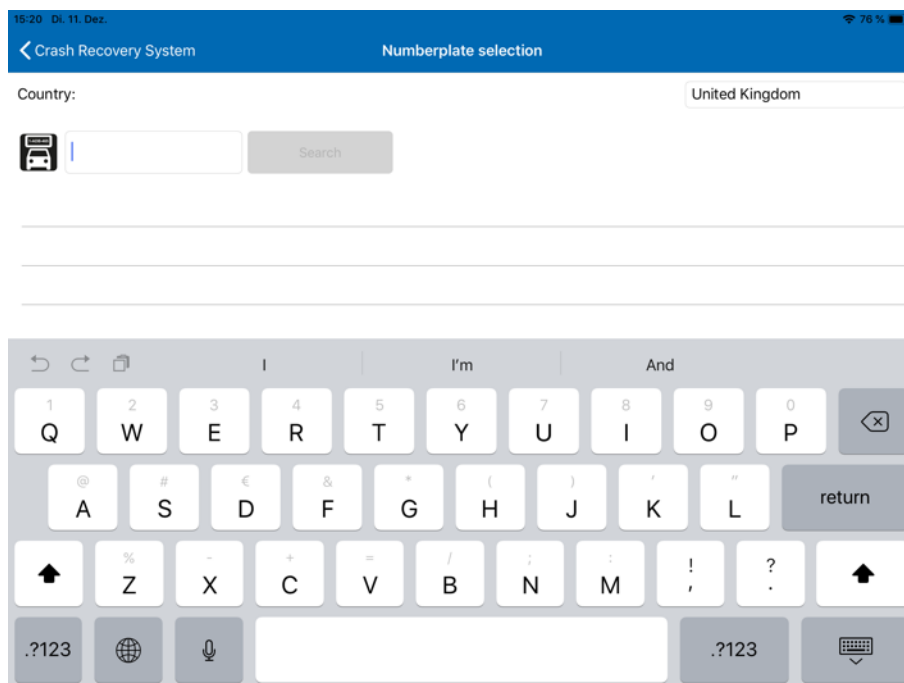
**NOTE:** For more information about all options in the Vehicle list see chapter 1.7 Vehicle list on [page 26](#).

## 1.6 Numberplate request (RDW Edition only)

Click the button [Numberplate selection](#) to select a vehicle model using the license plate number.

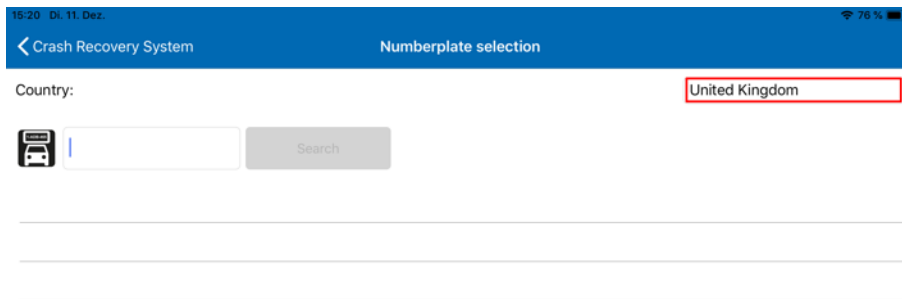


After clicking the button Numberplate selection the window below appears where the user can enter the license plate number.

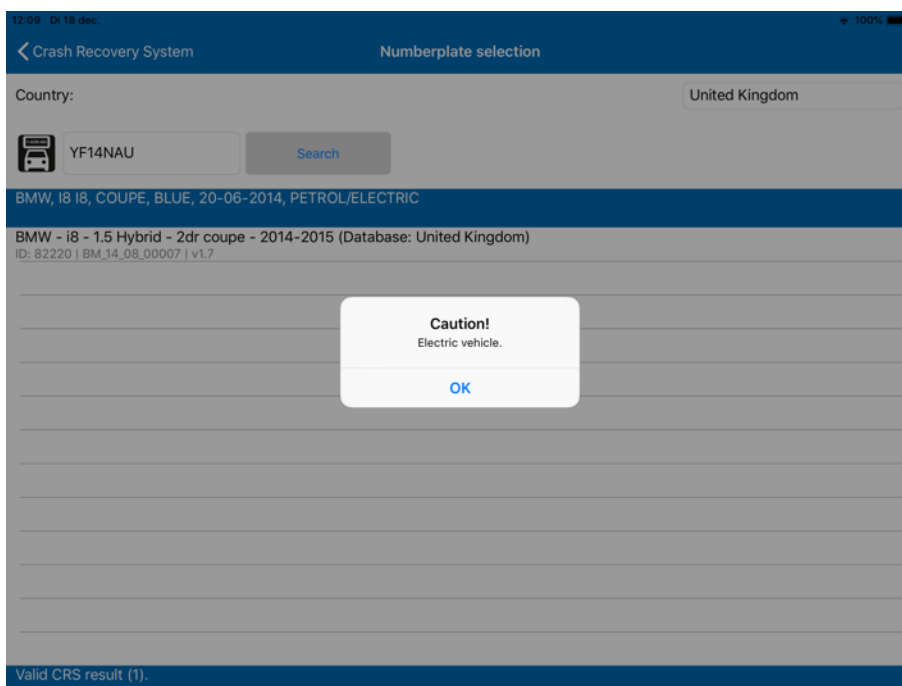


Enter the license plate number in the yellow bar. A keyboard appears automatically on the screen. With the button [&123](#) and [ABC](#) it is possible to switch between numbers and letters.

By clicking the [Search](#) button after entering the number plate, the system searches for the vehicle matching the entered number plate. Select the country (right) if you want to request a vehicle from another country.



The screen below appears.



If the selected vehicle model is an alternative fueled vehicle, a warning screen will appear immediately. Click [OK](#) to remove the warning screen.

**NOTE:** Vehicles with a German, Belgian and Swiss license plate number cannot be requested by rescue workers from other countries. Please contact Moditech Rescue Solutions B.V. for more information: [info@moditech.com](mailto:info@moditech.com) | +31 226 412 900.

After entering a license plate number, the corresponding model selection from the CRS database appears as hyperlink. Select the hyperlink to display the datasheet.

12:11 Di 18 dec. 100%

< Crash Recovery System Numberplate selection

Country: United Kingdom

YF14NAU Search

BMW, i8 i8, COUPE, BLUE, 20-06-2014, PETROL/ELECTRIC

BMW - i8 - 1.5 Hybrid - 2dr coupe - 2014-2015 (Database: United Kingdom)  
ID: 82220 | BM\_14\_08\_00007 | v1.7

Valid CRS result (1).

The description of the vehicle appears as it is registered in the license registration database, including the color, registration date and fuel type.

Upon clicking the model selection, the CRS information sheet appears. Refer to chapter 1.5 Datasheet (page 18) for more information

12:11 Di 18 dec. 100%

< Numberplate selection CRS Graphic

BMW - i8 - 1.5 Hybrid - 2dr coupe - 2014-2015  
ID: 82220 | Numberplate: YF14NAU | Fuel type: Electric

Hide roof

Hide side

Hide seats

Show deactivation

Show info

Show legend

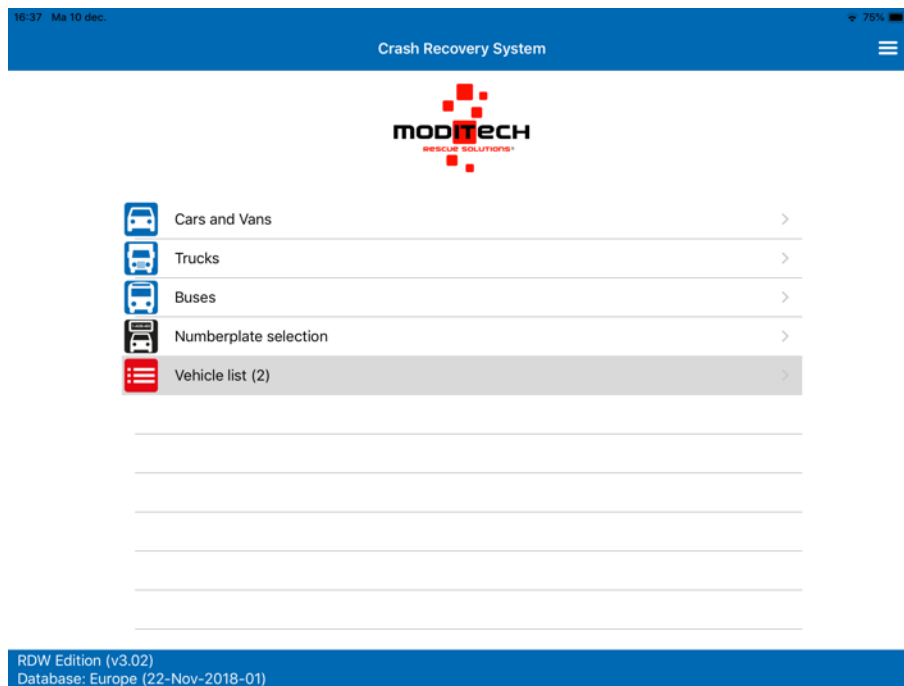
modTECH RESCUE SOLUTIONS®

Crash BM\_14\_08\_00007 | v1.7 | DB: 22-Nov-2018-01 powered by Modtech Rescue Solutions BV

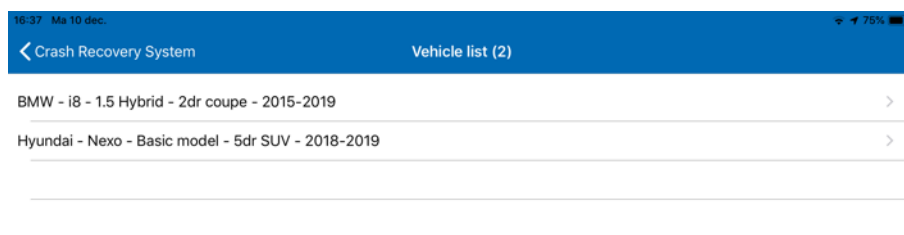
## 1.7 Vehicle list

This section explains the management of the [Vehicle List](#). With the Vehicle List, a CRS user can quickly and easily switch between multiple open CRS graphics within the Crash Recovery System.

If a number of vehicles have been added to the Vehicle List, this is visible in the opening screen of the Crash Recovery System. The number of selected vehicles in the Vehicle List is shown in brackets, as shown in the figure below.



The screen below displays the [Vehicle list](#). Two vehicles are in the Vehicle list now; BMW i8 and Hyundai Nexø.



**NOTE:** Moditech Rescue Solutions B.V. recommends removing the files in the Vehicle list on a regular basis. Make sure the Vehicle list is empty after using the CRS to avoid confusion during the next operation.

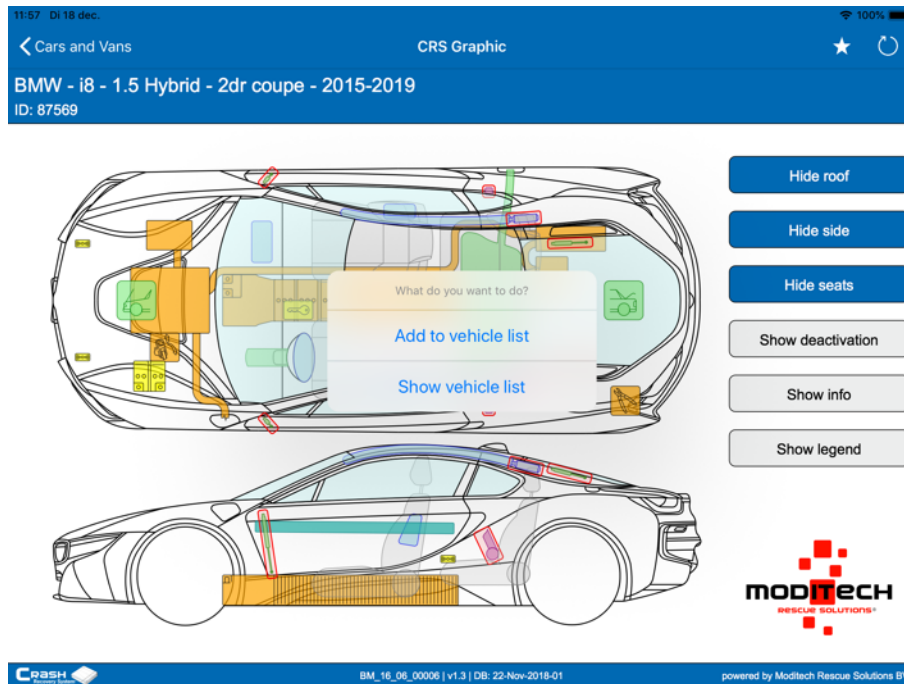
**NOTE:** In case your device does not have much memory space it is possible your system will delete the files in the Vehicle list automatically. Be aware of this!

## Switch between files in Vehicle list

With the Vehicle list it is possible to switch quickly between vehicles in the **Vehicle list**. The picture below displays the datasheet of the BMW i8. This is one of the vehicles which are set in the Vehicle list.

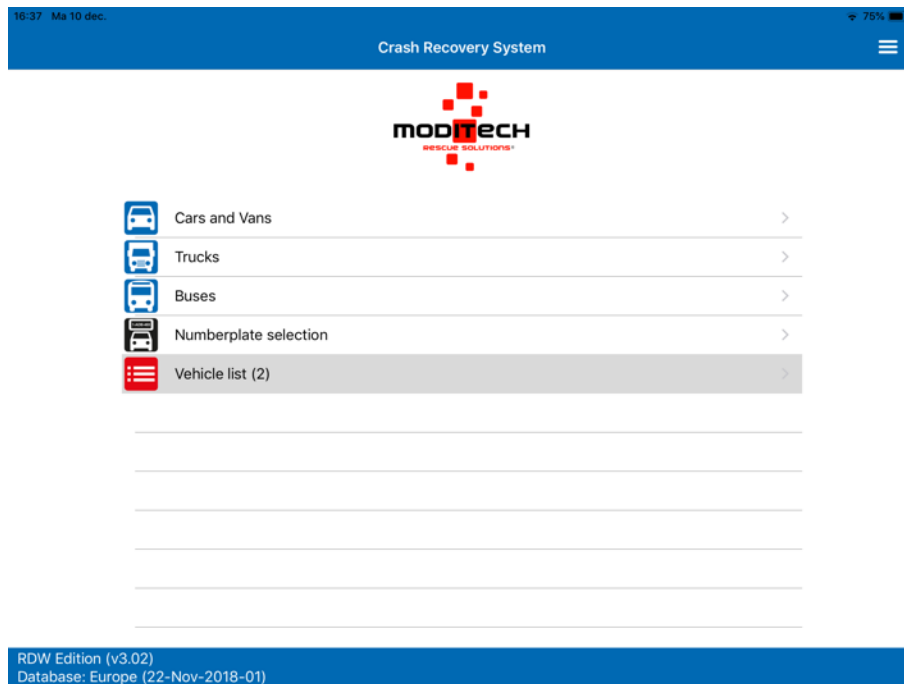
Click [Show vehicle list](#) to all vehicles in the Vehicle list.

**NOTE:** Click outside the pop-up window to close this message. After this, all the buttons of the vehicle image are clickable again.

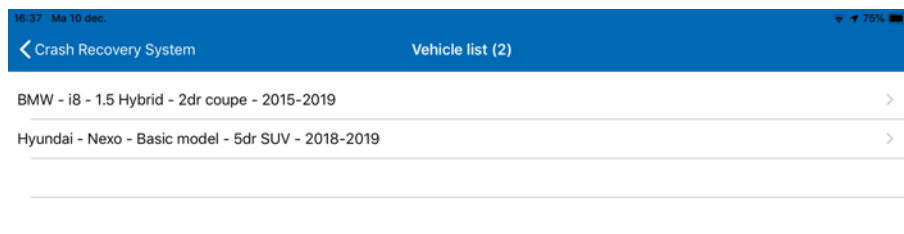


## Clear list / remove vehicle

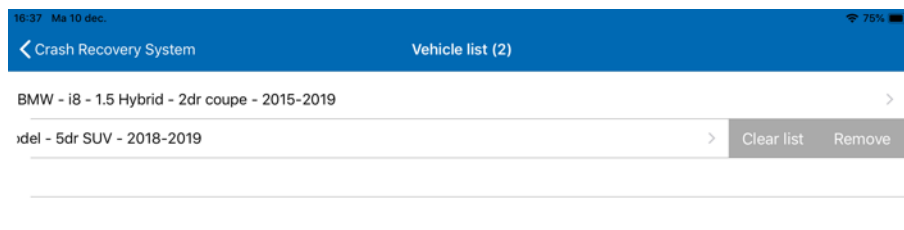
This paragraph explains how to remove one or more vehicle(s) from the Vehicle list.



Select the [Vehicle list](#). All vehicles in the Vehicle list are visible. [Swipe](#) from right to left - on a vehicle line - to remove one of the models from the Vehicle List, or to delete the entire Vehicle List.



The screen below appears. Click **Clear list** to delete all vehicles or tap [Remove](#) to remove the selected vehicle only.

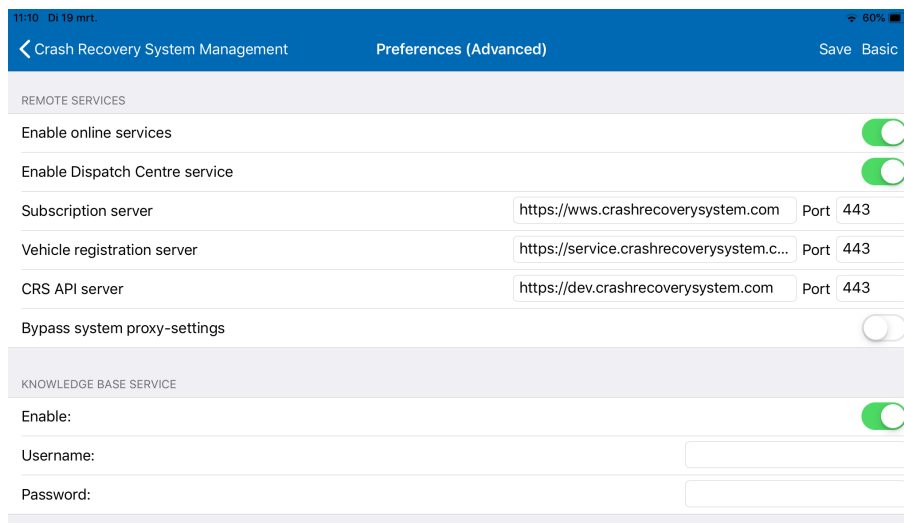


## 1.8 Knowledge Base Service

This paragraph explains how to use the Knowledge Base Service. With the 'Knowledge Base Service' functionality, users can add extra information to a vehicle model in the Crash Recovery System. It is now possible to share your experiences and tips & tricks for a specific vehicle with other rescue workers.

To use the Knowledge Base Server, you have to activate it first in the Crash Recovery Preferences. Select [Settings](#) and click [Preferences \(Advanced\)](#). Navigate to Knowledge Base Service and make sure you have enabled the option 'Enable'.

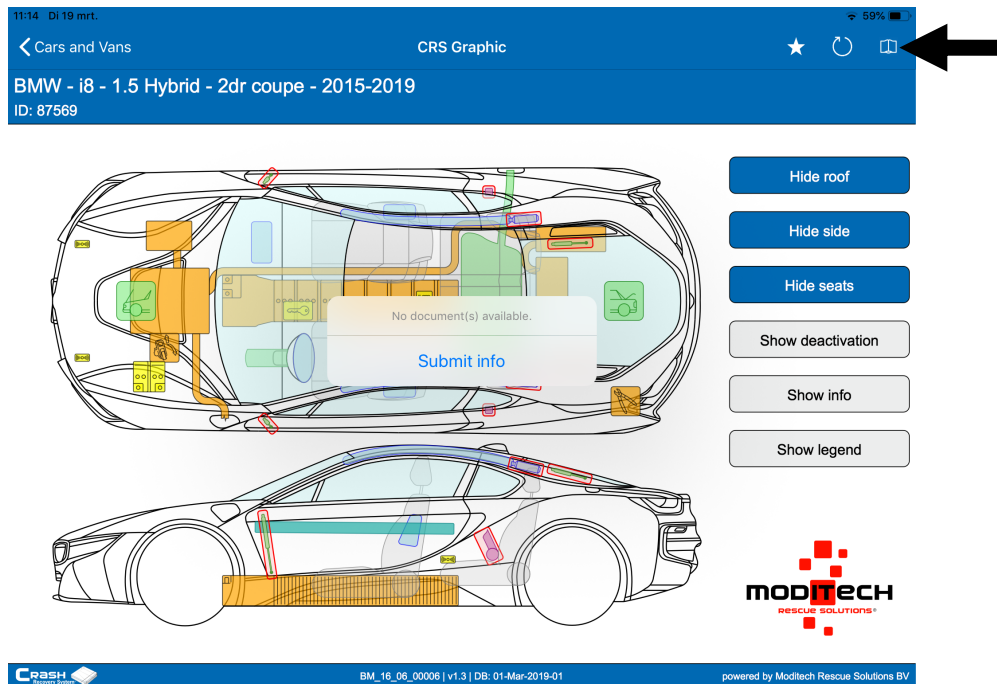
Make sure you have entered the correct username and password that have been submitted to you by Moditech Rescue Solutions BV.



Select [Save](#) after entering the correct details and the Knowledge Base Service is ready for use.

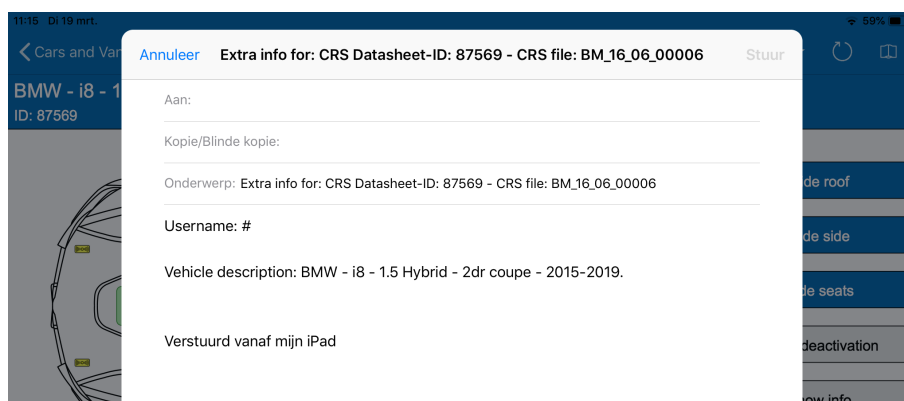
**Note:** Please contact your system manager in case you do not have the correct details for signing up. The system manager is the person in your organization who is responsible for maintaining the Knowledge Base Server.

After activating the Knowledge Base Service, a new button is visible in the vehicle graph.



A pop-up message appears. Click [Submit info](#) to send extra information about this specific vehicle.

Tap Submit info and your default mail system will appear automatically. Enter the information you want to submit for this vehicle, possibly add a picture and send it to the system manager. The system manager will link the information to the specific vehicle in the Crash Recovery System.

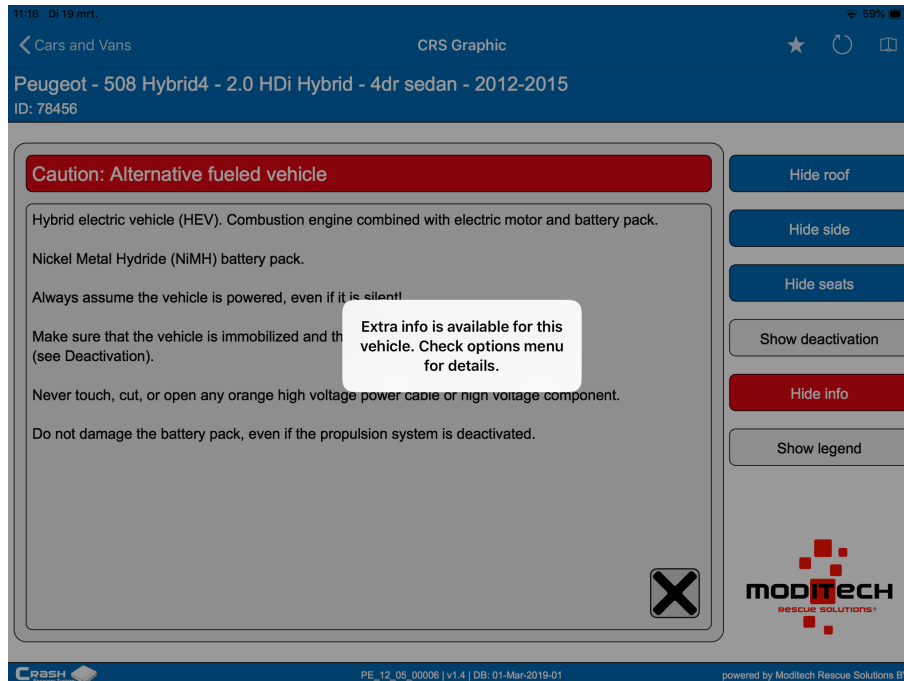


**Note:** Adding extra information requires a connection to a local server. For more information please contact Moditech Rescue Solutions BV, [info@moditech.com](mailto:info@moditech.com) | +31 226 412 900.

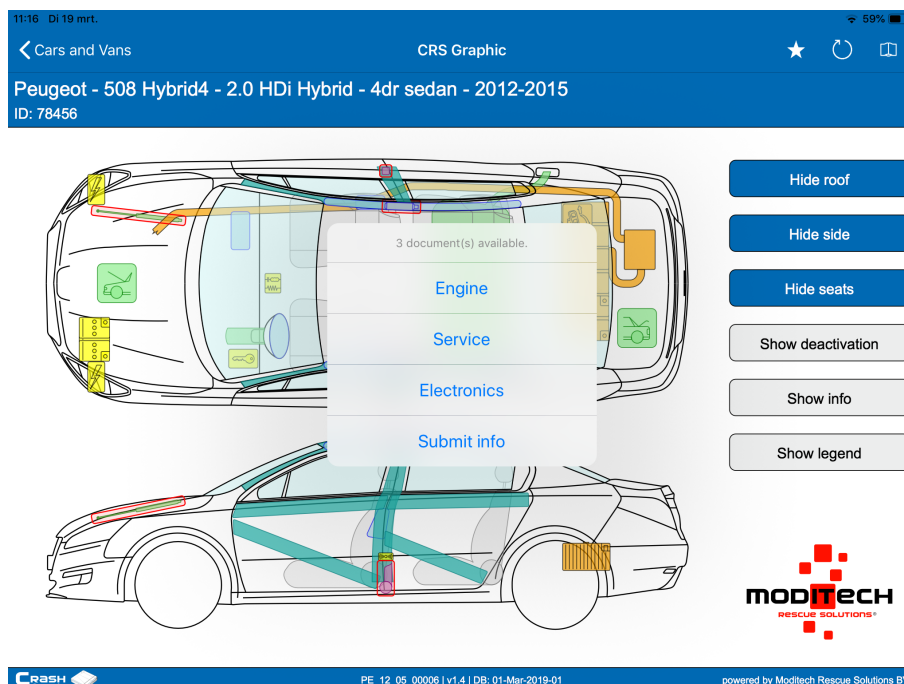
**Note:** Refer to the manual 'Knowledgebase Server' for more information about the Knowledge Base Server.

## Download the information

When the user opens a datasheet with extra information, a message appears. It tells you that extra information is available, for example in this datasheet of the Peugeot 508 Hybrid 4.

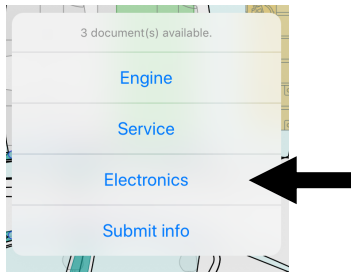


Check the options menu. After clicking the [Knowledge Baser Service](#) button a pop up appears, showing all the available documents with extra information. In this case more information is available in three categories; Electronics, Engine and Service.

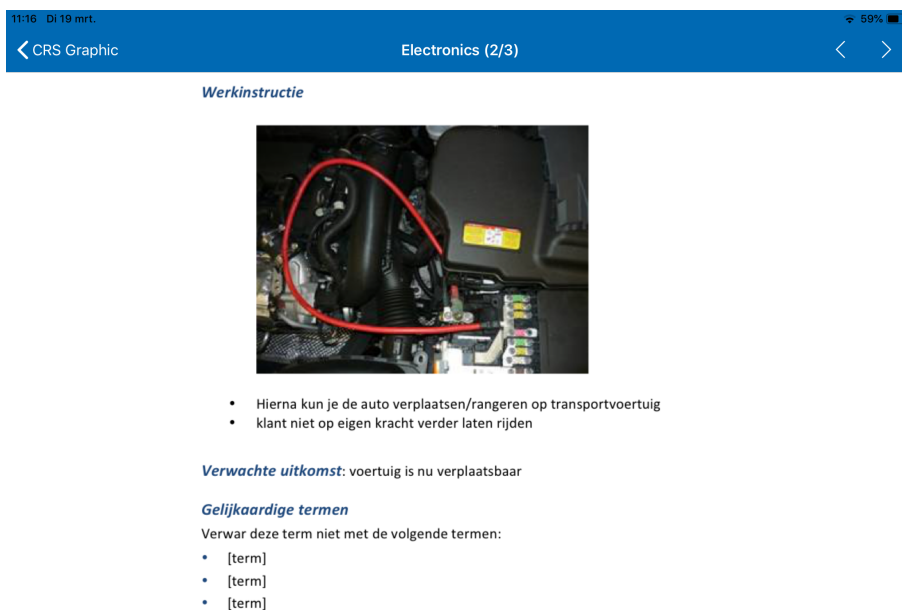


**Note:** The Knowledge Base Service menu contains six groups (categories) : Exterior, Suspension, Electronics, Engine, Service and Fuel.

Select the category 'Electronics' to download more information about this vehicle regarding electronics.



A PDF-document appears, linked to Peugeot 508 Hybrid 4. Here other rescue workers have written down experiences with this type of vehicle.



### Explanation buttons:



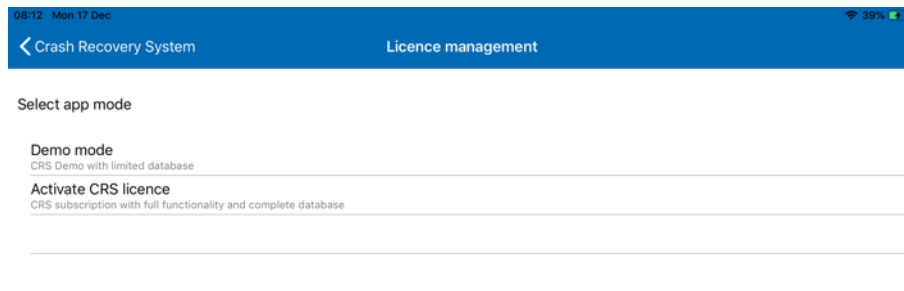
Switch to the next or previous page of the PDF-document with these arrows in the upper right corner.



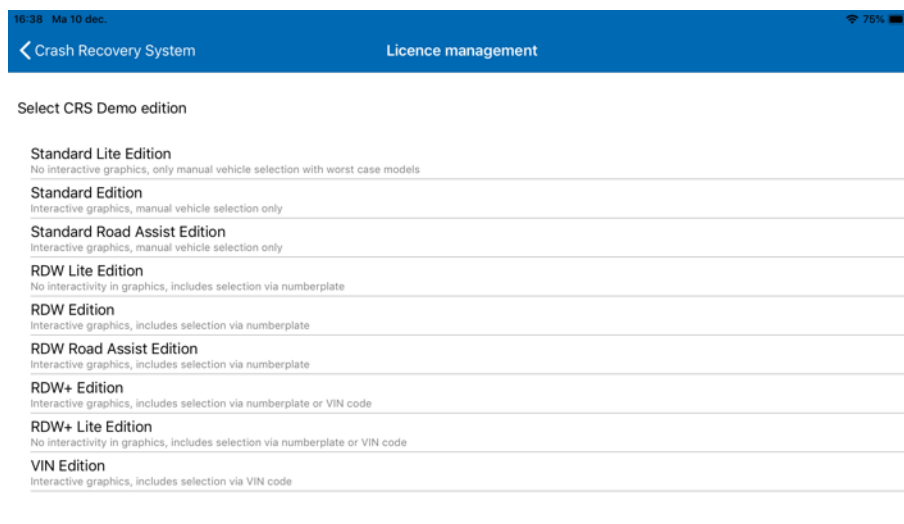
Clicking this button will close the PDF-document and lead you to the CRS graphic again.

## 1.9 Demo mode

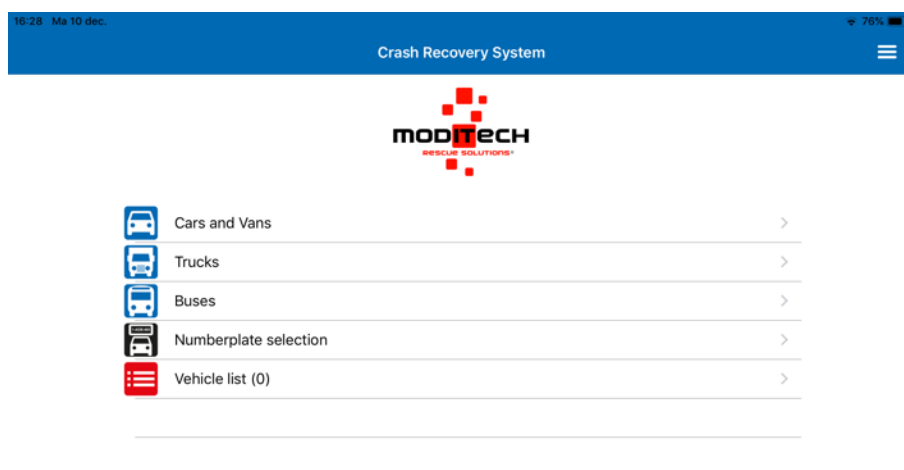
This paragraph explains the [Demo mode](#) of the Crash Recovery System.



In case the user has not entered a license code, the screen below appears. Select [Demo mode](#) to see all available CRS Demo editions.



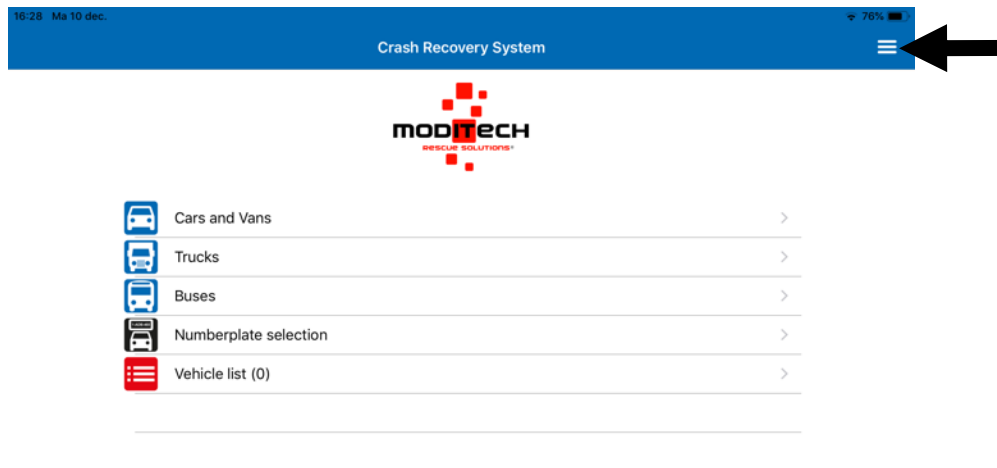
Select a Demo edition and the main screen of the Crash Recovery System appears.



**NOTE:** The Demo-mode contains a limited database. Please contact [www.moditech.com](http://www.moditech.com) for more information about demo editions.

## Demo mode > Settings

The **Settings** menu of the **Demo mode** it is possible to change settings such as the language and the database of the CRS. Click the Settings button in the right corner to view the options (Preferences, Update management, License management, Contact and Diagnostic information) in the CRS.



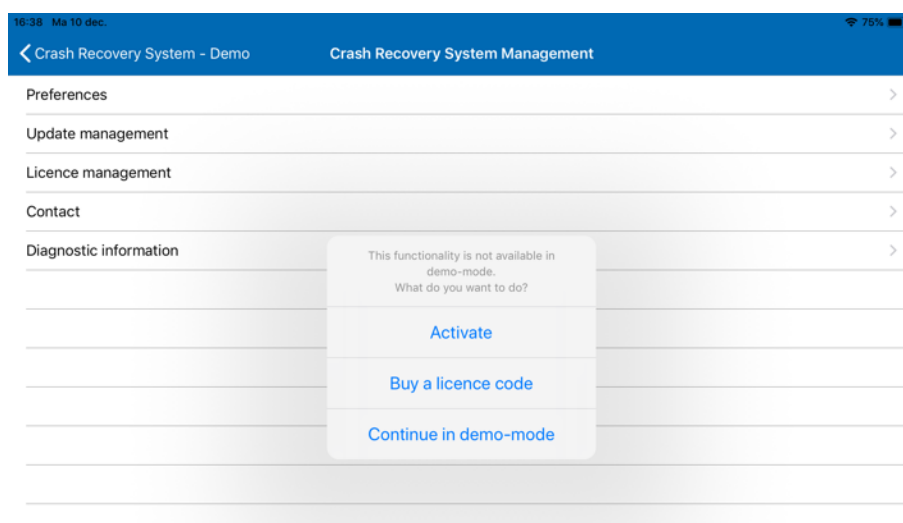
After selecting this button, the Settings menu appears.

## Demo mode > Settings > Preferences

See chapter **Preferences** on [page 5](#) for more information about all settings in the Crash Recovery System.

## Demo mode > Settings > Update management

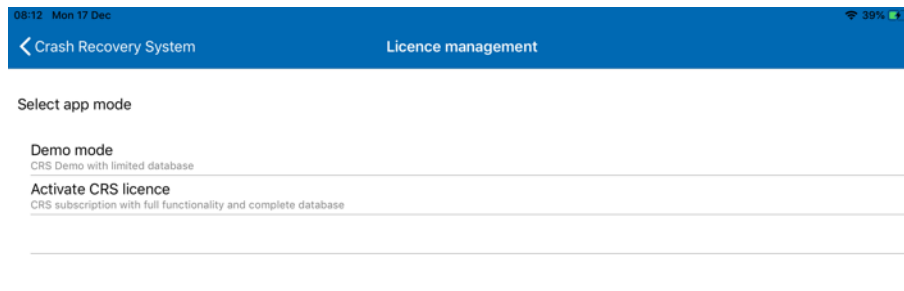
The option Update Management is not available in CRS demo editions. After clicking on the Update Management button, the pop-up window below appears. Through this window the user can activate the CRS via **Activate**, request a licence code via **Buy a licence code** or return to the demo version via **Continue in demo-mode**.



**NOTE:** Click outside the pop-up window to close this message. After this, all options are clickable again.

## Demo mode > Settings > License management

Select [License management](#) to activate the Crash Recovery System (with a license code) or to try another Demo edition.

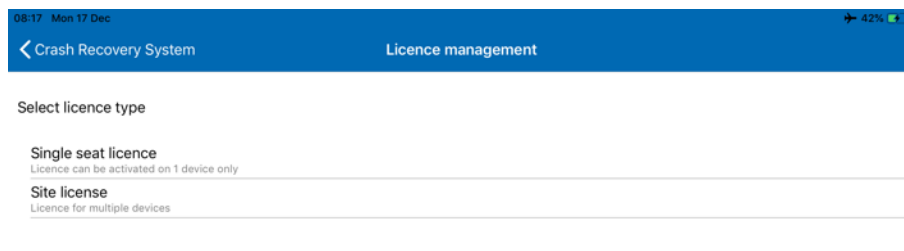


Select [Activate CRS licence](#) to enter the license code to activate the Crash Recovery System subscription. After entering the license code click [Activate](#) and the Crash Recovery System is ready to use.



## Demo mode > Settings > License management > Activating offline

If no internet connection is available during the activation process of the Crash Recovery System, the offline activation menu appears (as shown below).



### Single seat license

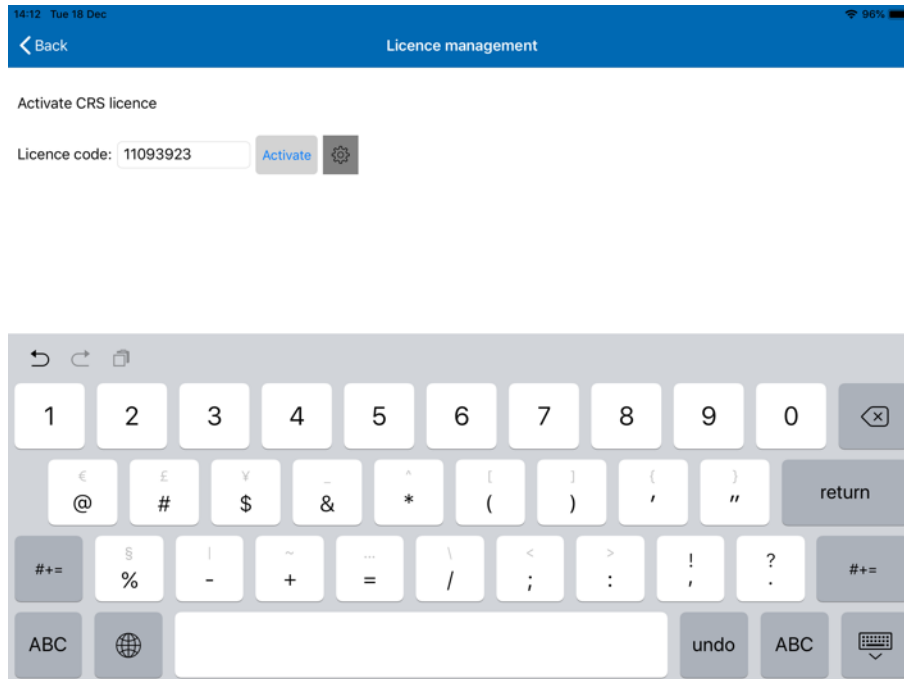
Select Single seat license to activate the Crash Recovery System with a single seat license code. A single seat license is a license code linked to one device. You have received this license code by purchasing the CRS.

### Site license

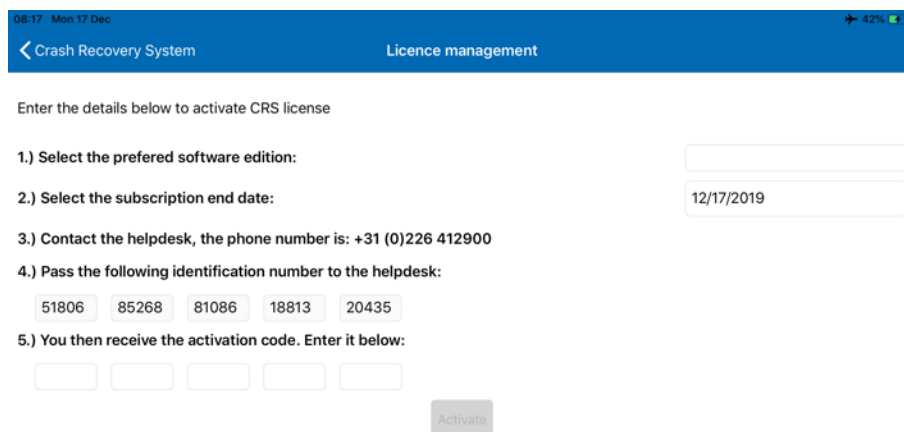
Select Site license to activate the Crash Recovery System with a site license. A site license is a single license code for a predefined number of installations (clients). Multiple devices (clients) can use the same license code to use the Crash Recovery System.

## Demo mode > Settings > License management > Activating offline > Single seat license

If the user wants to activate the Crash Recovery System with a Single Seat Licence, this screen follows. After entering the licence code, tap [Activate](#).



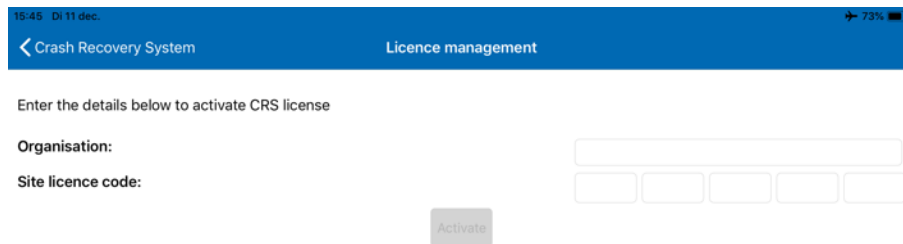
After entering the correct license code, the screen below follows. Select the desired software edition here. Then contact the Moditech helpdesk to provide the identification number. You will then receive an activation code from Moditech Rescue Solutions B.V. Enter this in and click on [Activate](#). The CRS is activated.



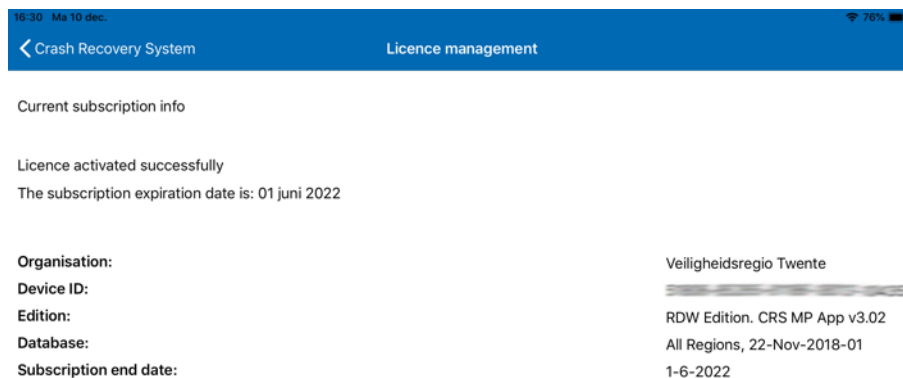
**NOTE:** Contact your system manager for more information about activating the CRS with a single seat license.

Demo mode > Settings > License management > Activating offline > **Site license**

If the user wants to activate the Crash Recovery System with a Site licence, this screen follows.



After entering the licence code, tap [Activate](#).



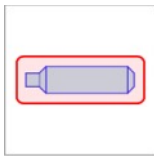
**NOTE:** Contact your system manager for more information about activating the CRS with a site license.

Demo mode > Settings > **Contact**

This option displays our contact information. If you have any questions or suggestions about the product, contact us by email or telephone.

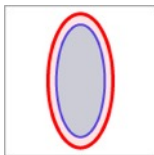
## 1.10 Overview all available components

### Dangerzone



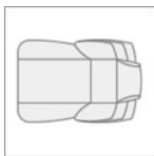
#### Dangerzone

The components outlined in red indicate components that are potentially dangerous during the rescue process.



Dangerzone driver and passenger airbag. Driver and passenger airbags outlined in red indicate dual stage airbags, on which one stage may remain active after activation of the airbag. It also indicates a mechanical driver airbag which can be activated using mechanical force

### Seats



Front seat top view



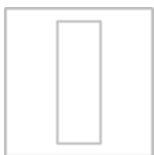
Back seat top view



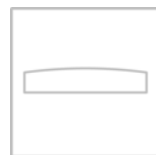
Front seat / back seat side view



Truck seat side view

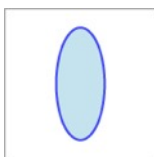


Truck bed top view

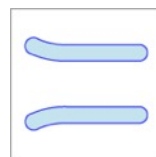


Truck bed side view

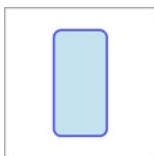
### Airbag



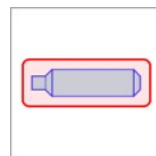
Driver airbag



Curtain airbag (Head impact)



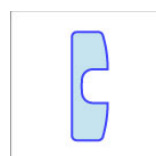
In dashboard: Passenger airbag  
In seat: Anti-submarining airbag



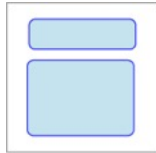
Stored gas inflator (for curtain airbags)



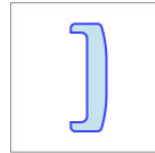
Side impact airbag (Seat)



Knee-airbag driver

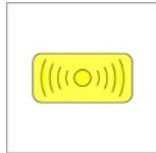


Side impact airbag (Side)

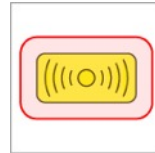


Knee-airbag passenger

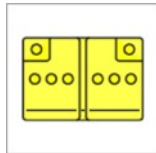
### Electro



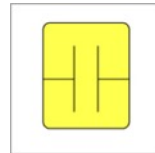
Sensor side/front



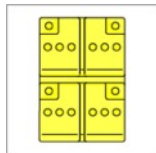
Sensor side/front  
(mechanical)



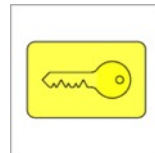
Battery (12 V)



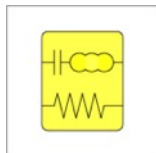
Backup power- supply (if  
separate from SRS control  
unit)



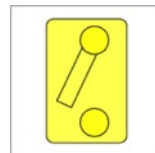
Truck battery (24 V)



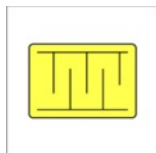
Start/Stop Button  
Engine Stop (Trucks)



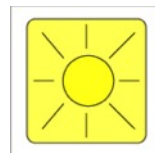
SRS control unit  
Roll bar control unit



Main battery switch



Seat occupancy sensor (if it  
can affect deployment of  
airbags)



Gas warning indicator

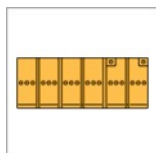


Xenon lights



Fusebox (RSA only)

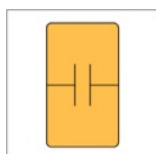
### Electro > 30 V



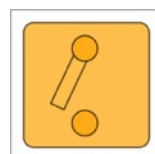
Battery pack



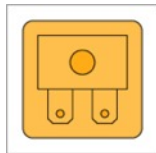
High voltage power  
cable/component



Ultra-capacitor (< 30 V)



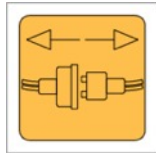
Emergency disconnect  
(switch off)



Emergency disconnect  
(remove fuse from fusebox)



Emergency disconnect  
(remove service plug)



Emergency disconnect  
(disconnect plug connection)



Emergency disconnect  
(unscrew connection)



Emergency disconnect  
(Cut cable)

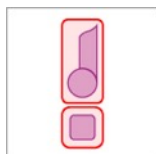


Emergency off switch

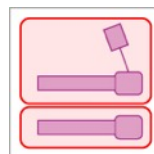


Cooling opening for high-voltage battery fire

### Beltpretensioner

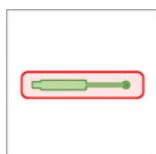


Seatbelt pretensioner



Seatbelt buckle or lap belt pretensioner

### Miscellaneous



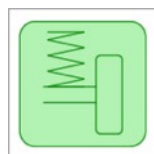
Cylinder to support engine hood or trunk lid



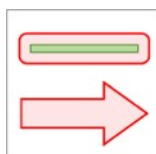
Cabin suspension (trucks only)



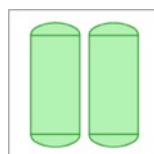
Automatic roll bar



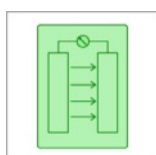
Chassis suspension (trucks only, buses/coaches only)



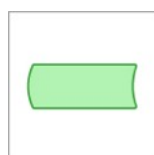
Hydrogen vent stack  
(Arrow indicates venting direction)





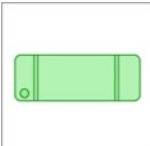






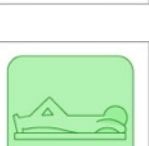
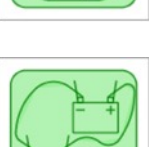
Air system



Fuel cell stack



Steering column adjustment

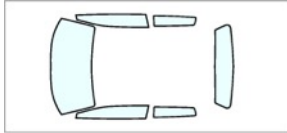
	Engine hood opening (hood opening to the rear)		Fuel tank
	Engine hood opening (hood opening to the front)		Fuel tank
	Trunk lid opening		Gas tank (CNG, LPG, Hydrogen)
	Grill opening (trucks only)		Safety valve
	Seat adjustment (trucks only)		Pedestrian protection system
	Emergency exit door (buses/coaches only)		Emergency exit roof hatch (buses/coaches only)
	Driver rest area (buses/coaches only)		Toilet cabin (buses/coaches only)
	Automatic gearbox (RSA only)		Recovery (RSA only)
	Jump-starting (RSA only)		On-board diagnostics (RSA only)
	Inertia switch (RSA only)		Electric parking brake (RSA only)

## Reinforcement



Reinforcement components in bodywork

## Glazing



Glazing, glass or plastic, tempered or laminated

## **Warranty**

Moditech Rescue Solutions B.V. warrants for one year from date of installation and/or purchase any of its products, which do not perform satisfactorily due to defect caused by faulty material or workmanship. Moditech's obligation under this warranty is limited to the repair or replacement of products which are defective, and which have not been misused, carelessly handled, or defaced by repair or repairs made or attempted by others.

This instruction manual is an integral part of the license agreement and the general conditions of Moditech Rescue Solutions B.V. For any warranty issues not described above we refer you to the general conditions of Moditech Rescue Solutions B.V. and the License agreement.

## **Liability**

The information and data in the Crash recovery System are compiled from reliable sources within the Automotive industry.

Moditech Rescue Solutions B.V. has performed all the necessary steps to ensure the data is correct and corresponds to specific vehicle models. However due to selection and identification errors or due to vehicle production modifications, production faults or missing items in the software may occur.

Moditech Rescue Solutions B.V. claims no responsibility and cannot be held liable for physical or material damage or loss due to one or more of the causes as described above.

The liability of Moditech Rescue Solutions B.V. for damage of the licensee, regardless its cause, is at all times limited to the cost of the license paid by the licensee for use of the Crash Recovery System software.

Moditech Rescue Solutions B.V. cannot be held responsible and/or liable for indirect damage and/or resulting damage.

Licensee may only claim compensation to the extent as described above for any damage resulting from a failure in the software when Moditech Rescue Solutions B.V. has failed to correct the error within a reasonable time frame after notification by the licensee.

The licensee is expected to follow the instructions in this instruction manual during operation of the software. All other use of the software than described in the instructions in the owners manual or the execution of these instructions in the wrong order cannot lead to the liability of Moditech Rescue Solutions B.V.

Moditech Rescue Solutions B.V. does not assume any responsibility and/or liability for software installations that are not updated to the most recent version.

Each claim of the licensee becomes void unless legal action is taken within a year after the failure and its cause was reported to Moditech Rescue Solutions B.V.  
All claims from licensee have to be submitted to the jurisdiction and venue of the commercial court in Alkmaar, the Netherlands.

## Notes