



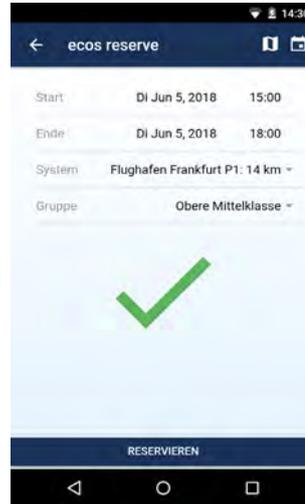
ecos car management

Reserve by App

Our App, "ecos reserve" is a modern way to reserve your car.

Availability is verified instantly and allows you to reserve your car with only one click.

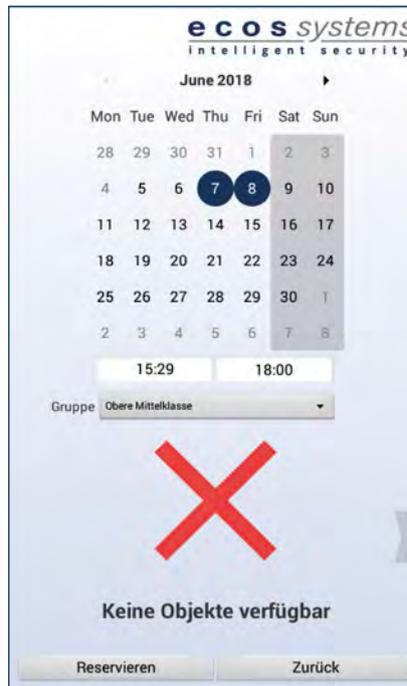
Choosing a specific car group increases your rate to obtaining a successful confirmation.



Reserve at the Terminal

"One touch" reservation is also available directly at the ecos terminal.

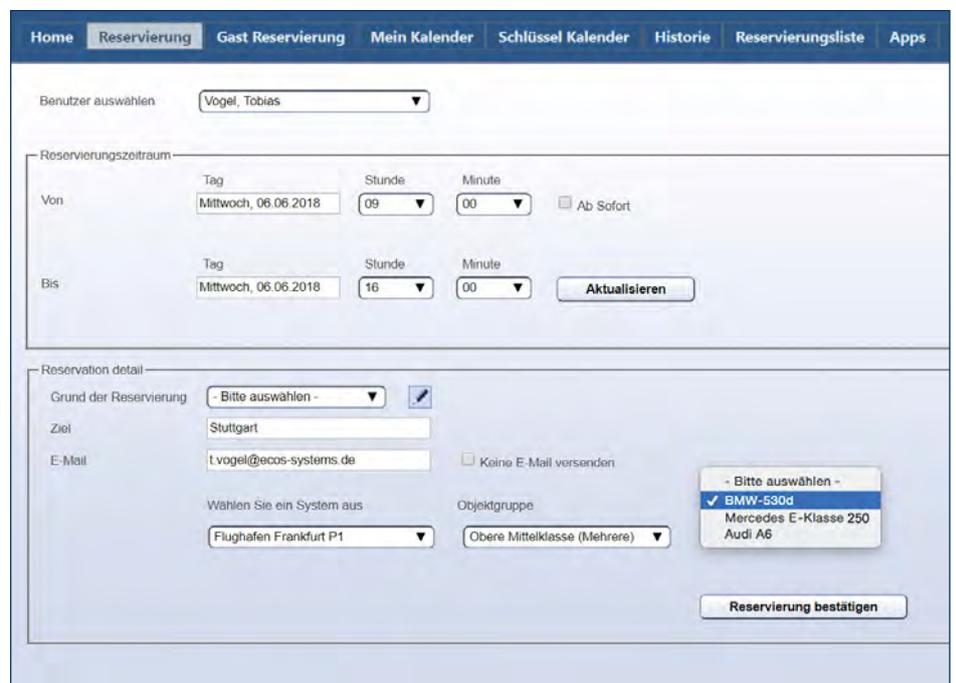
After opening the reservation page of the key depot and entering the desired dates on the "one touch" display, the corresponding key will be released.

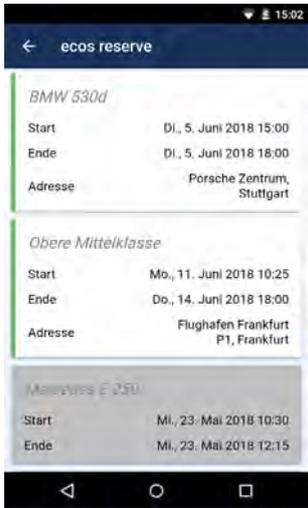


Reserve via Webman

Using the reservation page on the internet allows you to reserve a car for yourself or others.

Choosing your timeframe and driving parameters enables you to pre-reserve a car of a specific car group. Should the chosen car not be available at the selected time, the system will automatically propose an alternative.





We also offer the possibility to group terminals, allowing you to return a car to multiple locations.

An integrated navigation program gives you directions and distance to the nearest ecos terminal.

Also calculated is the time of arrival which further increases user acceptance and ensures optimal utilisation of the carpool.



Check-out at the terminal

Validation of the user identity is done using company internal media (for example RFID-cards). Guests or external users are furnished an automated one-time PIN via E-mail. For added convenience, the actual parking space and potential damages on the car are indicated at the time of key retrieval. The requirement to agree to specific user terms and conditions prior to key retrieval may also be selected.

Electronic logbook

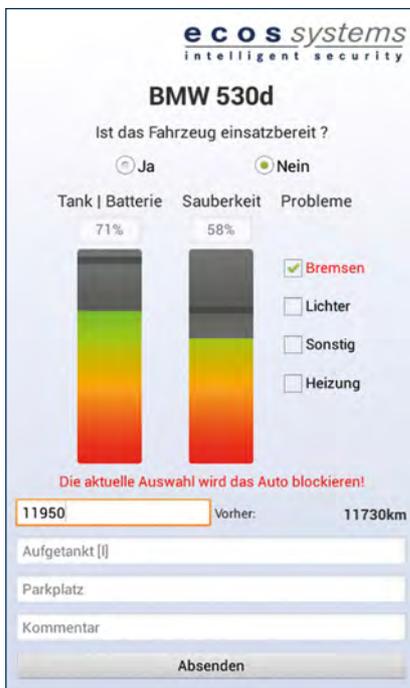
The ecos electronic logbook is tax office compliant. All data is saved according to legal requirements. Our ecos logbook app allows you to easily classify business, private or combined trips.



Using an OBD-module with integrated SIM card makes it possible to transfer diverse data such as GPS coordinates, mileage, fuel levels or error messages

Return at the terminal

When returning the key, the user is asked to provide important details regarding the car. In the event where the ecos logbook is being used, these details are transmitted automatically at the end of the trip.

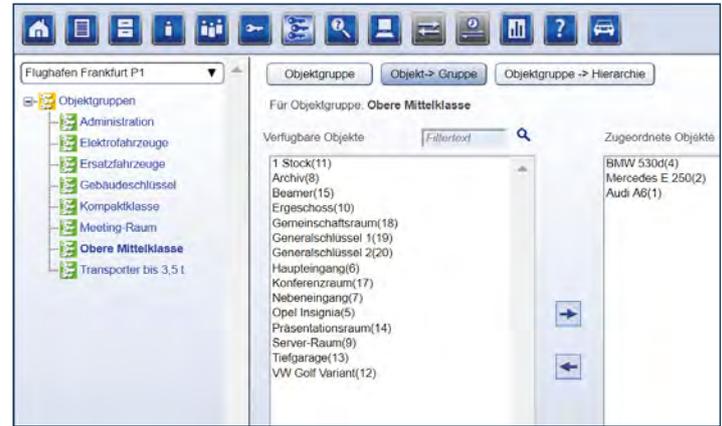


Should a serious safety issue with the care be reported during the return procedure, the car will be blocked, and a message will be sent to carpool manager.

Car Organisation

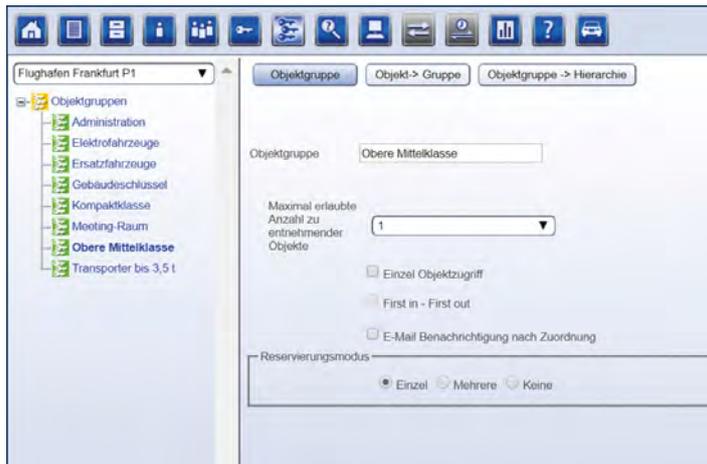
The concept of “groups” was implemented through our software program, **ecos Webman**.

Thanks to groups of users, objects and systems, it is possible to easily transmit specific properties and functions. This simplifies the organisation of your carpool.



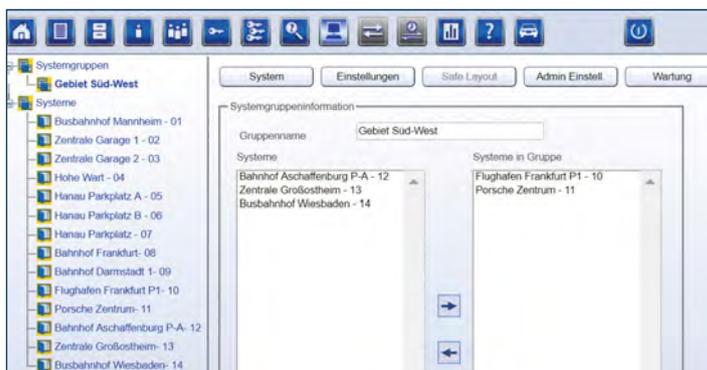
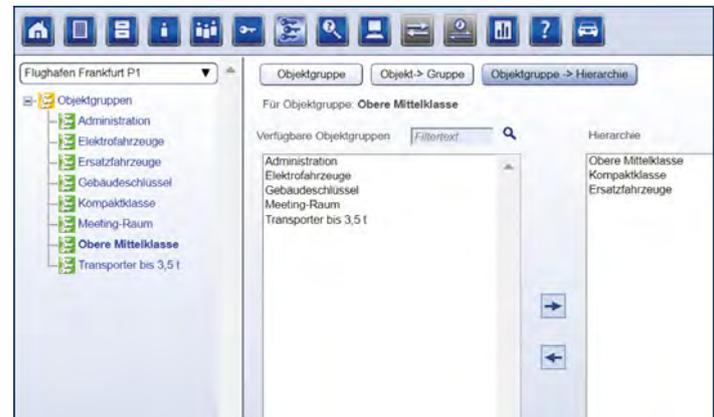
All cars within a specific group can be reserved. In the example to the left, the user can only choose one car at a time.

Individual criteria such as lowest leasing, mileage or latest inspection, can be rolled out easily within a given group.



By establishing a hierarchy of car groups, it is possible to assign cars of other groups (Upgrade) in case of unavailability, as is common practice at car rental branches.

You are free to define criteria's. You might for example decide to determine that a vehicle of a smaller category is attributed or a car of a specifically defined “replacement” group. A change of category may also be coupled with an action such as sending an email to the carpool manager.

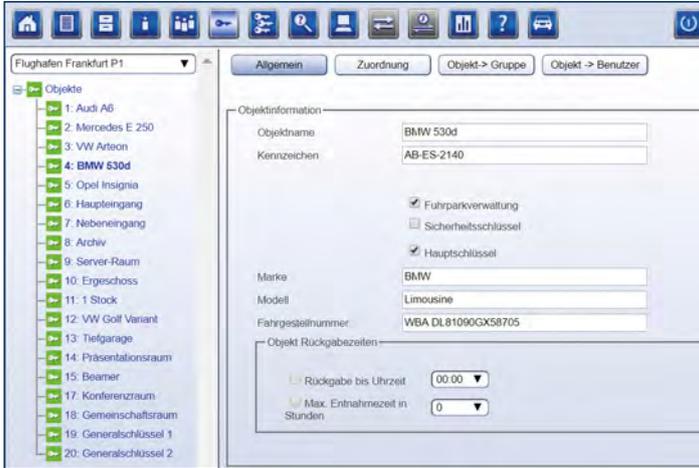


System groups are especially useful to manage carpools over numerous locations.

To do this, it is necessary to activate the dynamic management function, as the objects are no longer bound to one specific terminal.

The GPS coordinates of the terminals are easily identified by ecos Webman using the individual addresses.

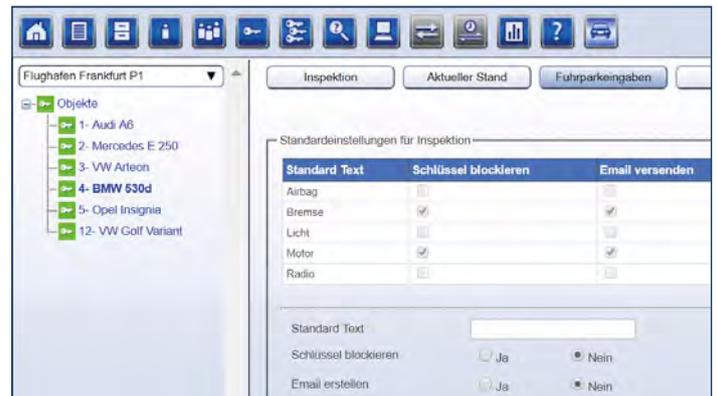
For each object, you may choose which underlying functions to select. Therefore, we enable you to select vehicle or building keys with different functionalities within the master file data. The following relates to the different functionalities for car keys only. You will find the security functions which relates to building keys in our brochure "ecos Security".



By selecting the carpool options, all carpool relevant functions will be specific to the chosen object.

Dialog windows for data input will automatically pop-up on the terminal. It is also possible to display external data such as inspection intervals.

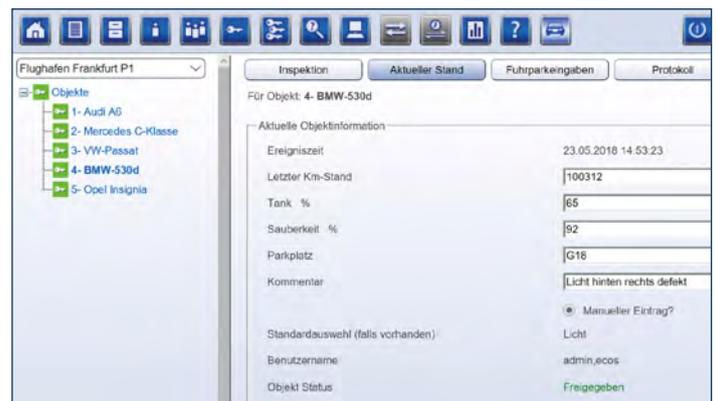
Dialog windows or error messages can be easily defined and may be coupled with special functions such as the sending of emails or disabling



Ereignisdatum	Objektname	km vorher	km nachher	Tank	Sauberkeit	Ereignis	Benutzername	Parkplatz	Kommentar
23.05.2018 14:53:23	BMW-530d	100257	100312	65	92	Licht	admin.ecos	G18	Licht hinten rechts defekt
23.05.2018 14:49:15	BMW-530d	120	100257	94	43	Kein Kilometer Eintrag	admin.ecos	G45	
23.05.2018 14:47:22	BMW-530d	120	120	79	46	Kein Kilometer Eintrag	admin.ecos		
11.05.2018 11:06:42	VW Passat					Kein Kilometer Eintrag	admin.ecos		
07.05.2018 11:06:01	Mercedes C-Klasse					Kein Kilometer Eintrag	admin.ecos		
07.05.2018 19:50:14	Opel Insignia	150	150	60	92	Kilometer Eintrag	admin.ecos	A7	
04.05.2018 15:46:26	Audi A6	400	400	46	74	Kein Kilometer Eintrag	Vogel Tobias	H56	
04.05.2018 15:24:12	Audi A6	400	400	46	74	Kein Kilometer Eintrag	Vogel Tobias	H56	
04.05.2018 09:38:10	Audi A6	400	400	46	74	Kein Kilometer Eintrag	Vogel Tobias	H56	

Numerous standard reports are available. On request, client specific reports can be generated.

Missing data or corrections can easily be amended manually. However, this requires administrator rights. Furthermore, all changes will be saved according to legal requirements.

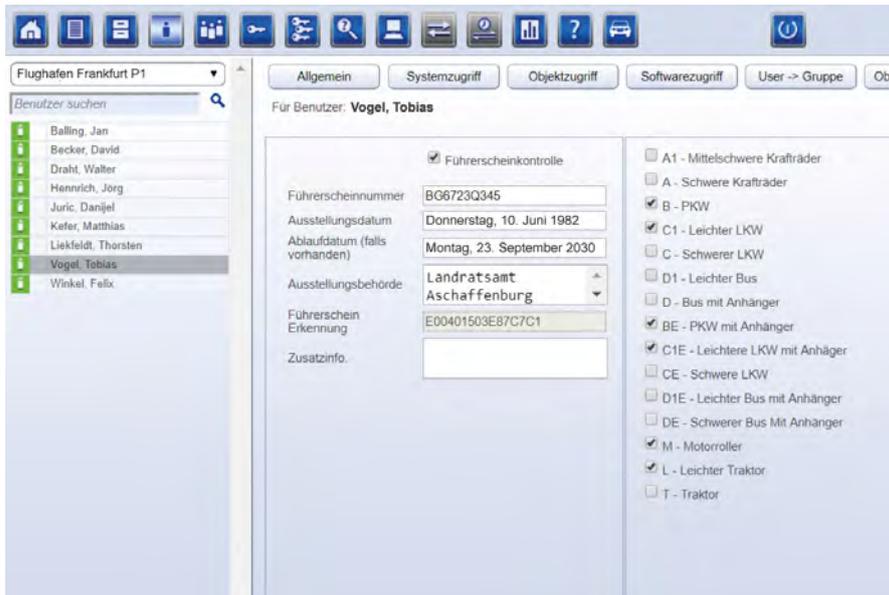


Driving Licence Control

The control of a valid driving licence is an important part of the ecos Carpool Management module. Especially, in connection with the previously described Reserve module, only persons with valid driving licence will be allocated the use of a car.

A specific RFID-seal will be issued to each driving licence. These seals are only valid if not damaged. Removing it permanently destroys the RFID-chip.

All ecos key cabinets, lockers and communication terminals are able to read these RFID-chips.



Driving license categories and license validities will be copied to the software.

Employees without necessary authorisation for a specific vehicle group will automatically be denied access.

It is also possible to create unique categories for company specific types of cars such as transporters for hazardous waste with regular inspections.

Alcohol Control

For increased driver security, it is possible to connect an alcohol control tester to any ecos system.

The picture shows our ecos Premium system with 20 locked slots. This system only releases keys in case of a negative alcohol test.





Terminal for Car Rental

Challenge:

A worldwide car rental company wants to install automatic terminals for the distribution of car keys at numerous international airports.

The barcode of the driving licence shall be read and used as an access medium.

Solution:

In this case, our drawer system, **ecos drawer**, is the perfect answer.

The required barcode reader is connected to our terminal, and the bidirectional data transmission is achieved through a **SOAP** interface

Challenge:

A large organisation was looking for an automated solution for the management of their carpool. The reservation and distribution of the car keys needed to be implemented for the staff on a 24/7 basis. The client required data transmission of pseudonymised user information by an internal, highly secured network. A complete solution including hardware and software as well as GSM communication was to be provided and operated.

Solution:

More than **500** key management systems of our **ecos premium** were installed nationwide, in order to ensure management of a carpool of over **10.000** vehicles. All systems are communicating using 3G/4G with ecos Cloud.

More than **100.000** drivers have access to the carpool using:

- the **ecos Reserve** app for Android and iOS
- the terminals on-site
- the **ecos Webman** internet site

Nationwide Carpool Management





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