ecos systems
automotive solutions

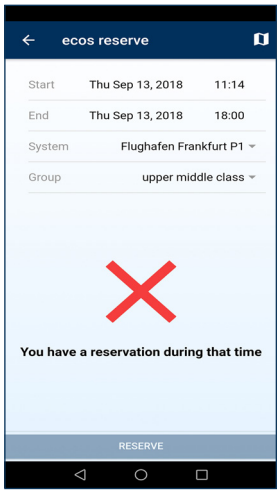
ecos car management

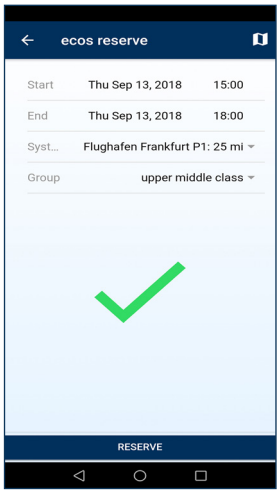
Reserve by app

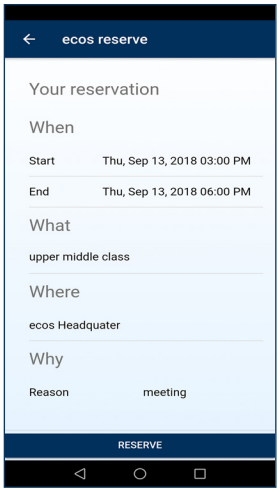
Our App, “ecos reserve” is a modern way to reserve your car.

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.



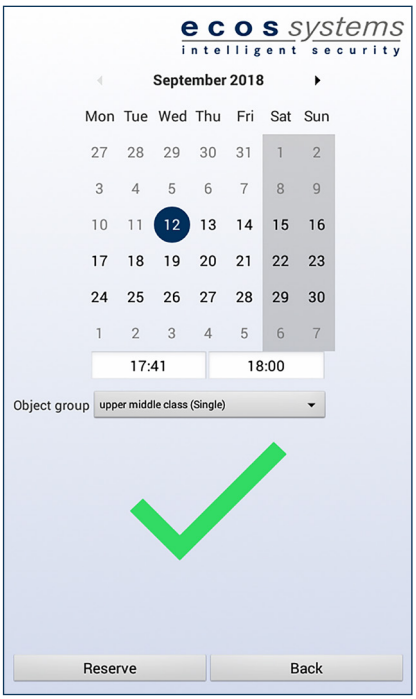




Reserve at the terminal

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

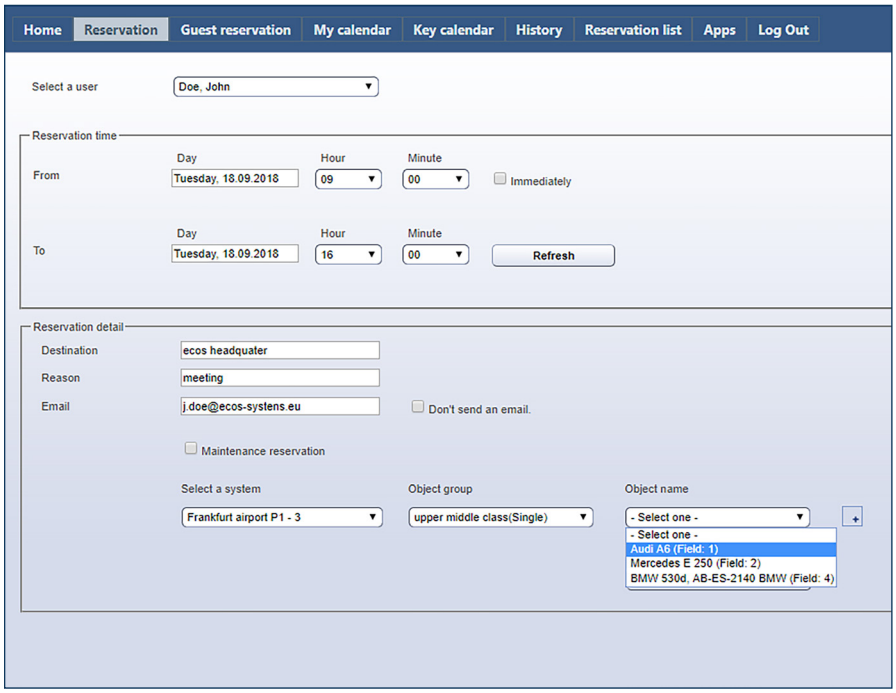
After opening the reservation page of the key depot and entering the desired dates on the “one touch” display, the corresponding key of the car will be released.

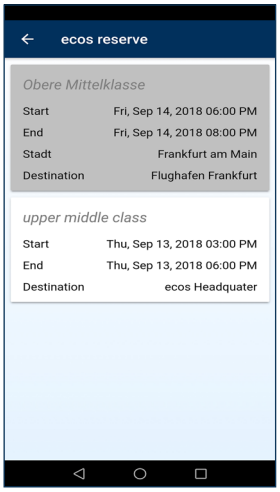


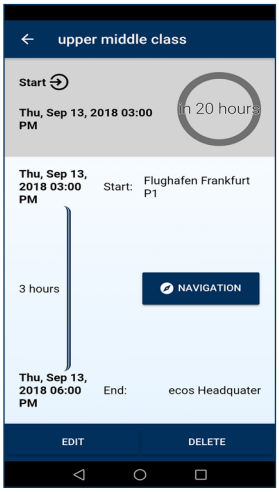
Reserve via webman

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 of the same group.







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

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

For an icreased user acceptance, the arrival time will be calculated. This also ensures the optimal utilisation of the carpool.

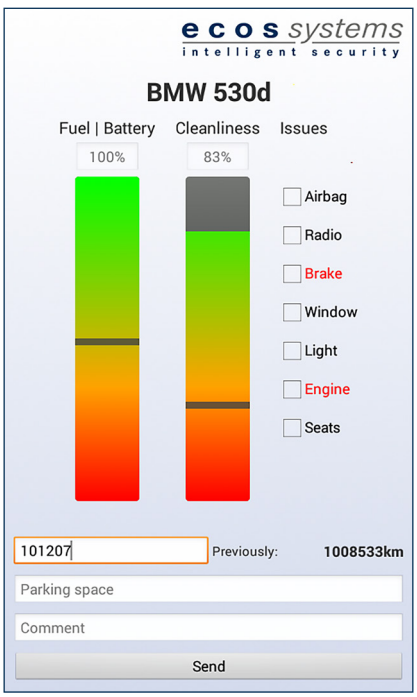
Check-out at the terminal

Validation of the user identity is done using company internal media (for example RFID-cards). Guests or external users are given an automated one-time PIN via E-mail. For added convenience, the current 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 compliant with the office. 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

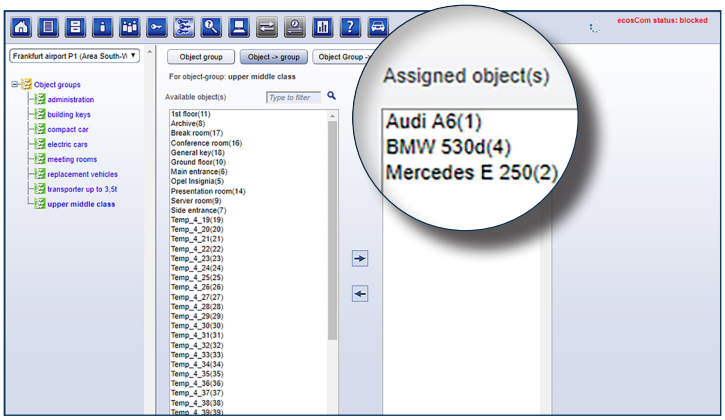
When returning the key, the user is asked to provide important details regarding the car. In the event where the ecos logbook is being used, these details are transmitted automatically at the end of the trip.

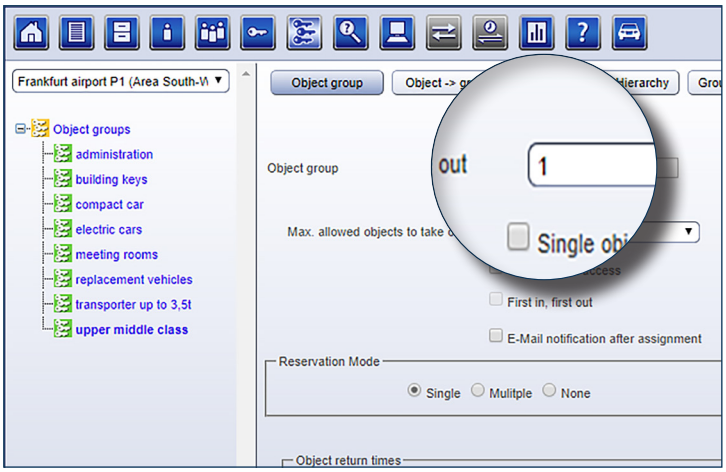
Should a serious safety issue with the car be reported during the return procedure, the car will be blocked, and a message will be sent to the carpool manager.

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.



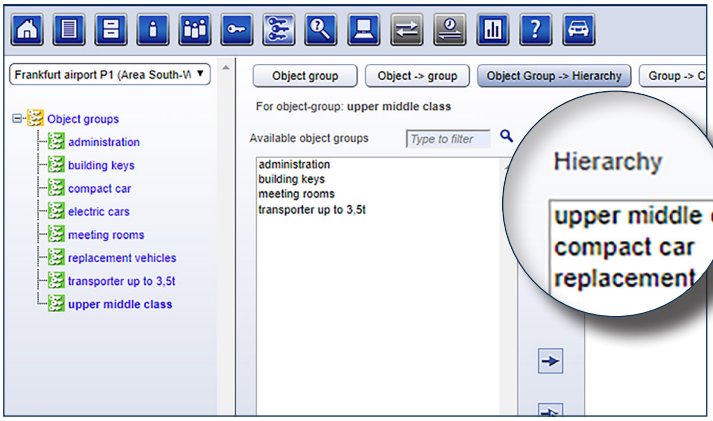


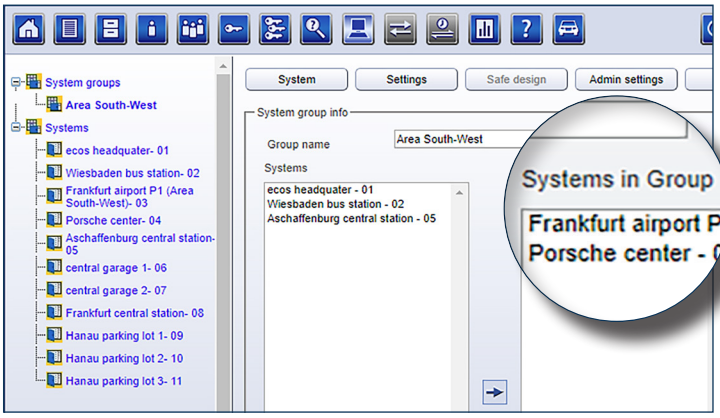
All cars within a specific group can be reserved. In the example on the left side, the user can only choose one car at a time.

Individual criteria such as lowest leasing, mileage or latest inspection, can be realized 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 it 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 operation such as sending an email to the carpool manager.





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

Therefore, 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.

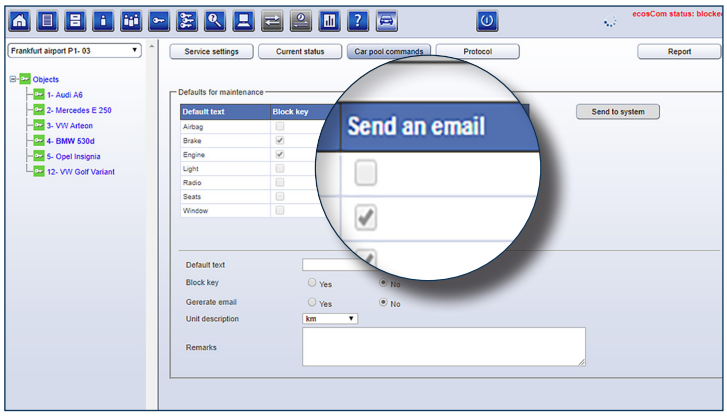
Carpool management

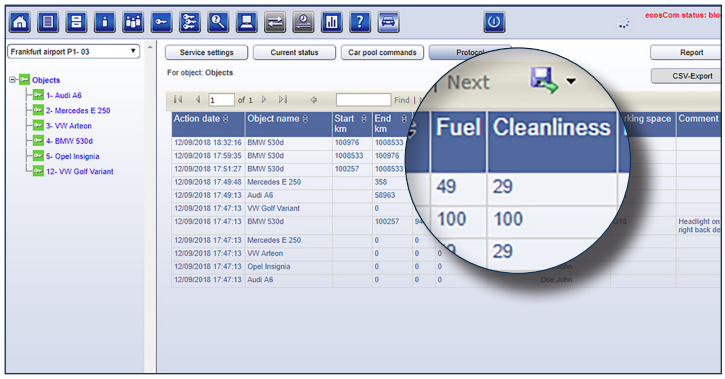
For each object, you may choose which underlying functions to select. Therefore, we enable you to store keys for vehicles or buildings with different functionalities within the master file data administration. The following relates to the different functionalities for car keys only.

By selecting the carpool options, all carpool relevant functions will be saved for 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.

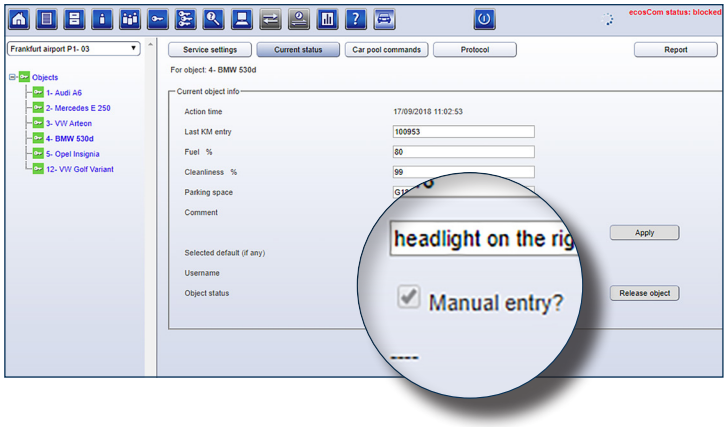
Dialog windows or error messages can be easily defined and may be coupled with special functions such as sending emails or disabling.





Numerous standard reports are available. On request, different evaluations can be programmed and generated as client specific reports.

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

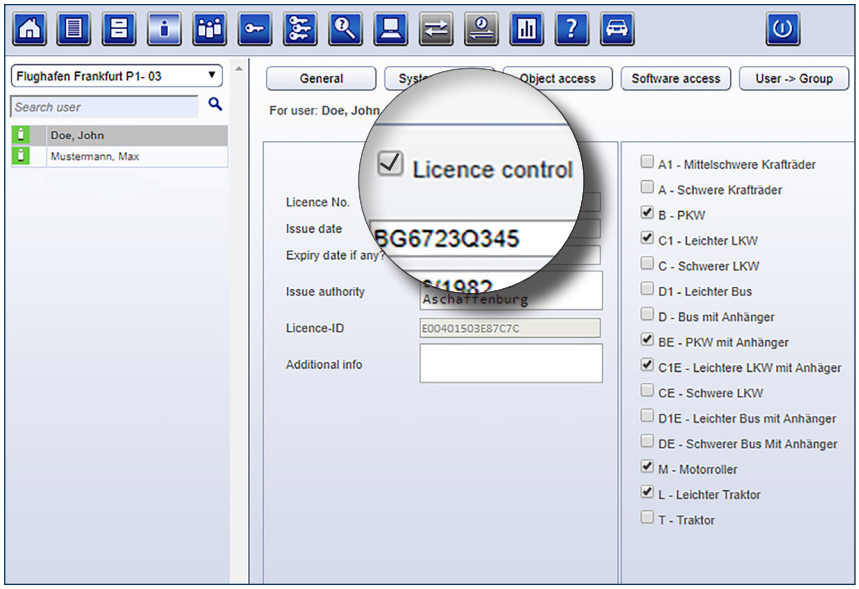


Driving licence control

The control of a valid driving licence is an important part of the ecos Carpool Management module. Especially in connection with the previously described **ecos reserve** module, only persons with valid driving licence are allowed to use a car.

A specific RFID-seal will be marked on 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 driving authorization 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 transport of dangerous goods 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 by 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.

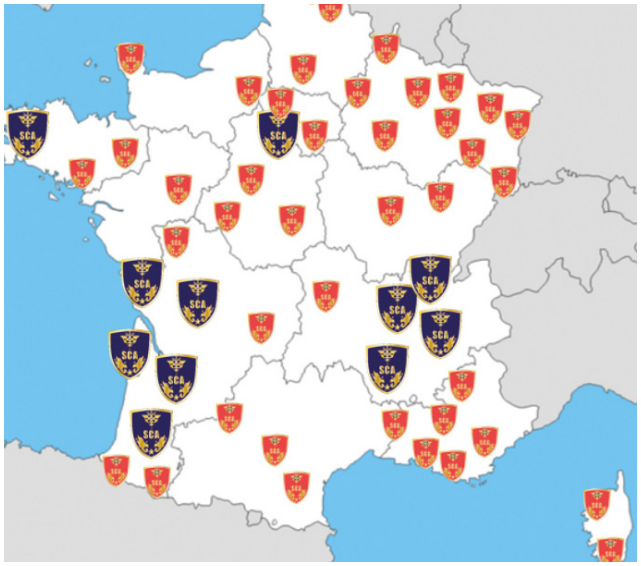
Solution:

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 the ecos Cloud.

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

- the **ecos reserve** app for Android and iOS
- the **ecos terminals** on-site
- the **ecos webman** website

Nationwide carpool management



ecos systems GmbH
Stockstädter Str. 25 • 63762 Großostheim
Tel: +49 (0) 6026 - 99 88 2 - 0 • Fax: +49 (0) 6026 - 99882 -1
info@ecos-systems.com • www.ecos-systems.com

© ecos systems GmbH • Subject to change • V.8.1