



## GPSW Internal Interface

GPSW Internal Interface is the trademark for a parking system API (Application Programming Interface). The function of this interface is to interconnect, collaborate, communicate in both directions and automatically exchange data between two mutually independent systems – the parking system and a third party information system.

## About GPSW Internal Interface

The GPSW Internal Interface is a universal data interface which is used to integrate GREEN Center parking systems with third party platforms. The interface enables commands to be issued remotely, and thus control the parking system. The communication between the systems is a two-way communication.

## Principle

The GPSW Internal Interface is a computer program which runs on the parking system's server as a system utility. The data communication is TCP/IP protocol based.

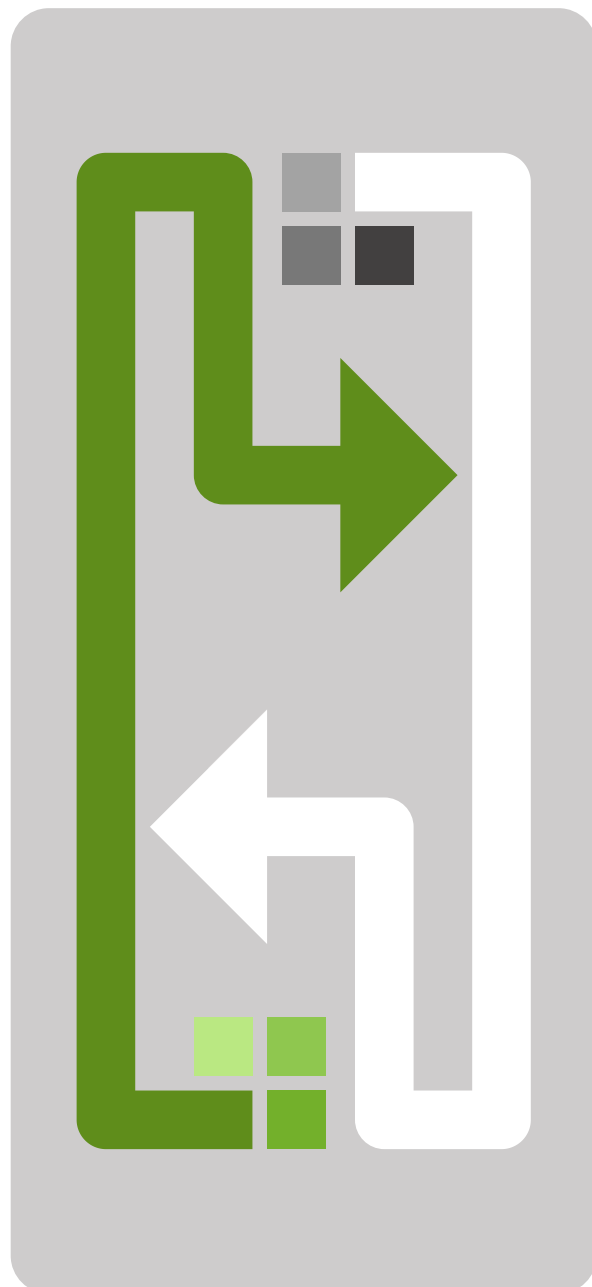
Communication with the parking system's server is initiated by a third party software. The third party software is modified by its vendor, to whom is in this respect rendered a full support – all necessary materials and examples of program source codes are made available, and technical consultations and advisory services, necessary to find the correct solution, are rendered.

The interface supports two communication modes which determine the technique of transferring data between the third party software and the parking system server. The data may be transmitted either in the form of a string of text, or in a binary form by means of a byte field.

Access to the GPSW interface is password-protected. Thus connecting the third party software to the server always requires full login details to be entered first.

## Major advantages

- Creates a standardised interconnection of two independent systems
- Provides two-way communication between the systems
- Reduces an error rate – eliminates the need to enter data into two systems
- Guarantees that data is up-to-date and consistent
- Increases work productivity and efficiency



## Functions

The protocol allows a number of operations to be performed with a variety of parking cards (short-term, long-term, congress), discount cards, parking vouchers, tax invoices and revenue reports. The main functions used by customers most frequently are:

- Generating parking cards,
- Activating parking cards,
- Displaying parking card features,
- Amending parking card features,
- Blocking parking cards,
- Checking parking fee on parking cards,
- Paying for parking cards,
- Unblocking parking cards,
- Deactivating parking cards,
- Displaying parking card history,
- Displaying a list of parking cards,
- Displaying a list of parking card owners,
- Displaying information about parking card owners,
- Changing parking card owners,
- Adding parking cards to groups,
- Removing parking cards from groups,
- Displaying a list of parking zones,
- Altering parking zone features,
- Generating discount cards,
- Increasing parking voucher credit,
- Displaying a list of price tariffs,
- Generating tax invoices,
- Displaying details of tax invoices,
- Administering tax invoices,
- Finding tax invoice amounts,
- Cancelling tax invoices,
- Generating revenue reports.

## Whom the interface is intended for

The GPSW Internal Interface is very versatile application-wise, and allows a broad spectrum of requirements of customers from both among private organisations and public institutions to be met. You can get a good idea about possible applications of this interface from the following model examples:

- ① A congress hotel provides accommodation to the guests of congress events. Part of the accommodation services is providing parking services. Every delegate is registered in the hotel's information system which communicates with the parking system. As a result the process of sending conference parking cards to the appropriate e-mail addresses, entered into the hotel's information system, can be fully automated.
- ② A medical facility administers its own database of all employees. Every employee has a contactless plastic card which he or she uses to access non-public parts of the hospital complex. Because the hospital's information system is interconnected with the parking system, employee data can be automatically transmitted to the parking system's database, without the need to manually enter the data into both systems. Apart from personal data, transmitted to the system are also the numbers of these contactless cards, which can be used as an identification medium in the parking system.
- ③ A supermarket leases premises inside a department store which has a paid-for car park shared by all department store's visitors. The supermarket management plans to reward their shoppers by discounting their parking tickets. The teller system will be for this purpose interconnected via the interface with the parking system. After successful integration of the two systems, cashiers will be able to discount the shoppers' parking tickets at the cash desk, using a standard barcode scanner used to scan goods, which is connected to the supermarket's cash desk system.