

ABACUS

Operator Manual



BACKUP - Backup of Car Park Data

Version 2.00

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1 Safety

1.1 General safety information

The parking system ABACUS has been designed using state-of-the-art technology. Correct and responsible operation is required to ensure safe interactive use with the ABACUS devices.

These operating instructions must therefore be read in their entirety and all safety information and instructions contained therein must be complied with.

- Please keep the manual for later use.



CAUTION !

Computer safety and virus protection measures for the work station **WS 120** and the **System server** have to be carried out by the operator. ¹

Recommended: Installation and regular update of a virus scanner.

Only the anti-virus scanner "F-Secure" ² has been tested and approved ³.

The installation of additional, non-system software, which is either not provided by DESIGNA or has not been expressly approved for use by DESIGNA, can negatively influence the ABACUS system software.

The installation of non-system software must, in particular, not occur at the **System server** in order to guarantee system safety. This relates to system safety in general and to certification-relevant system safety in particular.

Liability and warranty claims will not be accepted and any warranty claims regarding system stability and safety will be void in the case of non-adherence. Additional costs may be incurred due to a higher service effort in this case (e.g. for remote maintenance).

There are numerous DESIGNA applications (e.g. **WebReport**) available for accessing the ABACUS system databases.

Only use these applications to access system databases.

Liability and warranty claims will not be accepted and any warranty claims regarding system stability and safety will be void if other applications are used to access the databases or the actual databases are edited.

Additional costs may be incurred due to a higher service effort in this case (e.g. for remote maintenance).

¹ These measures have to be affected especially if the PC is used for applications with Internet access.

² For **System server** DBS 120 COMPACT PLUS or higher: "F-Secure Anti-Virus for Servers"
For **WS 120** or system server DBS 120 COMPACT: "F-Secure Home Server Security"

³ Ensure the correct settings of the "Exclude list": The list must necessarily exclude the file extensions .mdf, .ldf and .bak from scanning.



1.2 Safety instructions in these instructions

- Please pay careful attention to the safety instructions

The manufacturer shall refuse to accept liability and withdraw warranty if safety instructions are not followed.

The following signal words are used in the instructions to display possible dangers:

CAUTION ! Indicates those actions or states which, if not avoided, could represent a potential hazard to property and equipment.

NOTE: Is used to designate useful information for the operator.

BARCODE: Indicates barcode technology.

Safety instructions are additionally indicated via pictograms.

1.3 Use of these instructions

Working steps to be carried out are indicated as follows (list item):

- Please read the operating instructions carefully.

Bold printed terminology is explained separately in the attached glossary.

Italic text displays that the content can be found as a section of these instructions or that the entry can be found as a menu item, button or command on your screen's operating interface.

1.4 Intended use



CAUTION !

The backup of ABACUS data should only be used for its intended purpose and in accordance with these operating instructions.

ABACUS is an integrated system that controls the entrance/exit, time and cost of parking in protected areas such as car parks, airports or similar places. The automated parking system ABACUS is designed to give a service (parking) in exchange for money.

The backup of ABACUS data ensures ABACUS system recovery after failure of the **System server** or after damage to one or several databases.

The backup is only intended for car park operators and operating staff with the highest authorisation level. Advanced PC knowledge is required for using the application and understanding these operating instructions.



CAUTION !

Ensure that only authorised personnel who have read and understood the operator handbook have access to the **System server**.

2 Backup

2.1 General functional description

A backup of existing data at the **System server** helps to reduce data loss in the event of system failure. The data can be stored on various storage media. If necessary, the stored data can then be used for ABACUS system recovery.



NOTE:

Store your car park data at regular intervals on an external storage medium to ensure that current data is available for ABACUS system recovery.



NOTE:

Backup should be carried out for every **System server** in your ABACUS system.

2.2 Storage media

The backup can be carried out on the following storage media:

1. On an external USB hard drive
2. On a USB memory stick
3. On CDs or DVDs
4. On another network PC

2.2.1 Backup on an external USB hard drive

We recommend you to carry out backup on an external USB hard drive. An external hard drive can be disconnected after backup and kept separately, increasing data security.

A 500GB USB hard drive (item number 7 232 700 008) can be ordered from DESIGNA.



NOTE:

The automatic copying of selected files at specified times can be set. Please contact your DESIGNA Service for further information.

2.2.2 Backup on a USB memory stick

Current car park data can be stored on a memory stick. This storage medium is ideal for smaller amounts of data.

2.2.3 Backup on CDs or DVDs

CDs and DVDs can also be used for backup. Even though some System servers (e.g. DBS 120 COMPACT) have a CD or DVD burner, we still recommend you to copy data from the System server onto another network PC (e.g. operating work station WS 120) and then burn the CDs or DVDs at this PC.



CAUTION !

Burning CDs/DVDs directly at the System server will impair System server performance, resulting in possible restrictions at the ABACUS system.

**NOTE:**

If you have to burn CDs/DVDs directly at the System server, carry out this task during non-peak periods to avoid System server malfunctioning.

2. 2.4 Backup on another network PC

Backup can be carried out on another network PC, e.g. operating work station WS 120.

**NOTE:**

The automatic copying of selected files at specified times can be set. Please contact your DESIGNA Service for further information.

2. 3 Backup of car park data

2. 3.1 Backup of production databases

Current ABACUS data (e.g. item data, events, discounts, protocols, etc.) is continuously stored in production databases at the **System server**. Therefore, the copying of production databases is disabled for a system in operation. Production databases are regularly stored once a day in a backup directory at the System server. This is usually **D:\Microsoft SQL Server\MSSQL10.ABACUSDBS\MSSQL\ BackUp** (see *Backup/ Backup of current ABACUS databases*). Files can then be copied onto an external storage medium from this directory.

Production databases are located in the **D:\Microsoft SQL Server\MSSQL10.ABACUSDBS\MSSQL\data** directory at the System server. These files can only be copied when the “**SQL Server (ABACUS)**” is idle.

After software maintenance, an update or configuration changes, the entire **D:\Microsoft SQL Server\MSSQL10.ABACUSDBS\MSSQL\data** directory should be saved:

**NOTE:**

The backup of production databases is carried out by your DESIGNA Service.

2. 3.2 Backup of current ABACUS databases

Current ABACUS databases are regularly stored once a day at the **System server** in the **D:\Microsoft SQL Server\MSSQL10.ABACUSDBS\MSSQL\BackUp** directory. Storage occurs daily at 1 am.

Current data is stored for one week. Separate files are stored for each weekday (_WT1 to _WT7). After one week, the files are overwritten one after the other.

**NOTE:**

Store the entire **D:\Microsoft SQL Server\MSSQL10.ABACUSDBS\MSSQL\BackUp** directory at regular intervals on an external storage medium to ensure that current data is available for ABACUS system recovery.

2.3.3 Backup WinOperate, tariffs, cc-invoice

- After each update or changes to the configuration or to tariffs, store the entire **D:\Desi\System\ABACUSDBS\Applications** directory incl. sub-directories on an external storage medium.

2.3.4 Backup system data

- After each update or changes to the configuration or to images, store the entire **D:\Desi** directory incl. sub-directories on an external storage medium.

2.4 Car park data recovery



NOTE:

Car park data recovery is carried out by your DESIGNA Service.

3 HP on-site service

High-quality Hewlett-Packard servers are used as standard System servers. HP offers a three year on-site service for these System servers. For further information on HP-Support, please visit <http://www8.hp.com/us/en/hp-information/summary/ww-contact-us.html> for international customers.

- For information on the type of device, please refer to the label on the System server.

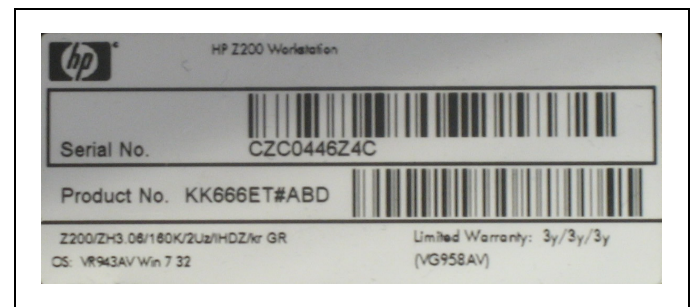


Fig. 1: System server: Label displaying the type of device and serial no.

4 Glossary: ABACUS Reference

D

DBS (also System server): see **System server**

E

Ethernet

Ethernet is a widespread and standardised communication infrastructure for local networks (**LAN**). All devices to be networked have their own IP (Internet Protocol) address, which is used for communication independent of the location. The consistent use of the Ethernet standard for all components enables a diversity of access possibilities and networking types (e.g. fibre optics or wireless **LAN**).

L

LAN

A **LAN** (Local Area Network) is a locally limited network under control of the owner. In the ABACUS system, the **LAN** is the car park network achieved via **Ethernet**. This can include just the car park or also company units or networked partners (e.g. multi-facility centres).

S

System server

The **System server** is the PC or the server platform for controlling, monitoring and administrating the parking system ABACUS.

The operating interface **WinOperate** is installed at the DESIGNA operating work station **WS 120** and communicates via **Ethernet** with the System server. The application WinOperate is located on the actual System server (ABACUS DBS COMPACT and COMPACT PLUS) for smaller car park systems.

W

WinOperate

The **WinOperate** is an easy-to-use graphical Windows® interface which allows the user to check, monitor and control processes in ABACUS as well as manage system data and present business figures.

The operating interface WinOperate is installed at a DESIGNA operating work station **WS 120**, which communicates via Ethernet with the **System server**. The application WinOperate is located on the System server ABACUS DBS COMPACT and COMPACT PLUS for smaller car park systems.

WS 120 (also work station, operating PC)

The **WS 120** is the operating work station of the ABACUS parking system which communicates with the **System server** via **Ethernet**. In connection with WinOperate the WS 120 provides extensive monitoring, controlling, administrating and reporting functions. Several WS 120s can be networked and access the data and control of one car park.

The application WinOperate is located on the actual System server (ABACUS DBS COMPACT and COMPACT PLUS) for smaller car park systems, a separate PC WS 120 operating work station is then not required.

5 Appendix

Version overview of this Operator Manual

09/2011 SU: Adaptation to recent German version

Subject to technical changes.

The parking system ABACUS is continuously advanced and improved. Please contact your DESIGNA Service about changes and additions to these operating instructions.