

## Technical data

## ELS Software V 5.6

### Operating systems supported:

- Windows 7, 8, 10
- Windows Server 2003/2008/2012/2016

### System prerequisites:

- PC with 1,000 MHz processor or higher
- Minimum of 100 MB available hard disk space
- CD-ROM drive
- 1 free (USB) COM interface
- Recommended additional software components: Microsoft Excel Office 97-2016

### User languages:

- German, English, French, Dutch, Spanish, Italian

### Users:

- 10 users, can be extended by a further 10 users
- Flexible rights: View, New, Change, Delete

### Database:

- SAP SQL Anywhere 12 (OEM version)
- Login through name and password
- Optional: SAP SQL Anywhere 17 (client/server version) for simultaneous access to the database by several clients via the network

#### Event memory

- Storage of the released device events
- Selection via groups or single events
- Scope depending on the hard disk space available

#### Journal memory

- User actions are stored
- Selection via user, date/time, action
- Scope depending on the hard disk space available

### Modules:

Module size	Devices	Transponders
S	25	100
M	125	500
L	750	3,000
XL	9,500	32,000

#### Client module

- System with up to 10 clients (can be extended by a further 10 clients)
- Distribution of devices and locking media among the clients

#### Client-server module

- Multi-user version
- Simultaneous access to the software by several users

#### Online module

- Networking of the end devices via Ethernet / TCP / UDP
- Central programming and monitoring of all end devices
- Max. online devices: Depending on the licence purchased, the system structure and the PC hardware used by the customer.

**Intelligent transponder module**

- Management and programming of intelligent transponders (Hitag S)
- Central programming of authorisations

**Authorisation assignment:****Management possible through group and areas**

- Organisation of the end devices in areas
- Organisation of the transponders in groups
- Assignment of area and individual authorisations for intelligent transponders

**Possible time-related restrictions:**

- 31 freely definable week-related time zones with 3 intervals per day (time zone 32 = without time limit)
- Public holiday calendar for 32 public holidays
- Public holiday calendar for 15 holiday intervals

**Devices and transponders supported:****Programming media:**

- ELSmobile software
- USB RF radio stick for offline programming
- Old devices: Serial IR adapter for offline programming
- Old devices: Pocket PC (PDA)
- Old devices: Programming device (PG1)

**End devices:**

- ELS Pro (type: 47)
- ELS Protector®
- ELS Guardian
- ELS AccessManager , ELS AccessManager Terminal
- ELS ITT (intelligent transponder terminal)
- ELS desktop reader (serial)
- ELS-P, MFS, LSE, ELS999, (butler)
- ELS Pro (type: 48)
- ELS AccessManager V7 , ELS AccessManager Terminal V7, ELS AccessManager ITT V7
- ELS RF-NetManager
- ELS desktop reader (USB)

**End devices (from October 2019):**

- ELS Guard

Device import through CSV file prepared by DOM (must always be specified on order)

**Transponders**

- Hitag 1, 2, S
- EM 4100, 4102, 4150, 4450
- (Deister)
- (butler ID device)

**Master data management:**

- 5 freely definable master data types (e.g. employees, visitors, external companies)
- 3 definable field names (e.g. personnel number, function, department)
- Addition of an image file
- Blocking option, validity from to
- Field for remarks or other entries
- Copy and search function
- Master data import/export via CSV file

**Interfaces:**

- ODBC database interface
- Optional: OEM interface: Remote control of the ELS software running in the background via TCP/IP



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### Protocols:

- TCP
- UDP

### Ports TCP connection:

TCP server (old devices):

- Port 9601 (incoming: events)
- (ELS Software MultiLine or Client/Server: 9601 ... 9608)

TCP Client (old devices direct (ELS software)):

- 19000 (outgoing: configuration)

### Ports UDP connection:

UDP Client (old devices):

- Port 10002 (outgoing: communication with the end devices, 1: 1)

UDP Client (old devices direct (ELS software)):

- Port 19001 (outgoing: broadcast for the configuration)

UDP Client/Server:

- Port 9601 (outgoing: communication with the end devices ELS AccessManager V7 and ELS Pro type: 48)
- Port 9601 (incoming: events and alive-dialogues from the end devices ELS AccessManager V7, ELS RF-NetManager and ELS Pro type:48)

UDP Client/Server (ELS software):

- Port 47138 (outgoing: configuration of the end devices ELS AccessManager V7 and ELS Pro type:48)
- Port 47138 (incoming: alive-dialogues of the end devices not yet configured)

### Scope of supply:

- DVD with software and instructions

*All specifications correspond to the current development status. We reserve the right to make technical changes at any time.*