

eLOCK eXpert System management



Technical data (System)

- System administration** ————— OPERTIS eLOCK eXpert Software
- Usable databases** ————— SQLite (standard, included)
- Simultaneous users** ————— Unlimited
- Transponder technology** ————— MIFARE® DESFire®
- Memory requirements per transponder** —————
 - ▶ 2K – S – small locking system – max. 154 locking rights
 - ▶ 4K – M – mid-sized locking system – max. 666 locking rights
- Transponder with special function** — – General key
 - Master key
- Assistants** ————— Assistants guide you through the work sequences. For example:
 - CSV import
 - Database maintenance
- Data security** —————
 - ▶ User login
 - ▶ System password
 - ▶ Encrypted communication between the software and the database
 - ▶ Encrypted data transmission during programming
 - ▶ Encrypted communication when checking locking authorizations between transponder and end device
 - ▶ Encrypted storage of data on the end device
 - ▶ Encrypted storage of data on the transponder
- Languages** —————
 - German
 - English
 - Dutch
 - French
 - Spanish
 Reports optionally bilingual, in preparation
- Operating options** —————
 - Offline operation
 - Online operation
- Multi-client capability** ————— For using an unlimited number of locking systems/clients



- Master data overviews** —————
 - People
 - End devices
 - Device groups (Office Plus software license)
 - Locking groups (Office Plus software license)
 - Time profiles
 - Calendar (holidays/special days)

- Locking plans** —————
 - Cross locking plan (Office Plus software license)
 - Locking authorizations per device
 - Locking authorizations per transponder
 - Locking authorizations per device group (Office Plus software license)
 - Locking authorizations per locking group (Office Plus software license)

- Locking concept** —————
 - Storage of locking authorizations on the transponder.
 - Access on Card

- Working with multiple PCs/tablets** — If necessary, the locking system can be managed via multiple PCs/tablets (clients). (Software license multi-user)

- System sizes** —————
 - Across the system**
 - 250,000 Transponders
 - 65,000 End devices
 - Unlimited persons
 - Unlimited end device groups (Software license Office Plus)
 - As a tree structure with a depth of up to 20 levels
 - Unlimited locking groups (Software license Office Plus)
 - 5 Individual time profiles persons + time profile “Always”
 - Unlimited person time profiles (Software license Office Plus)
 - Unlimited end device time profiles (Software license Office Plus)
 - Unlimited public holiday dates

 - Per end device**
 - 250,000 Transponders
 - 20 End device groups (max. depth of the tree structure)
 - Unlimited locking groups
 - Unlimited person time profiles
 - 1 Device time profile
 - 512 Public holiday dates
 - Logging of the last 10,000 accesses (ring buffer)

 - Per transponder**
 - Locking rights (end devices, end device groups): 154 with small locking systems
666 with mid-sized locking systems, in acc. with the defined size of the locking system
 - 6 Individual time profiles
 - 1 Fixed time profile “Always”
 - Unlimited public holiday dates
 - 5 blacklist entries (lost transponders of the entire locking system),
for blocking on the end devices (ring buffer)
 - 20 System/ battery messages (battery low) from the offline end devices (ring buffer)
 - Max. 3 eLOCK eXpert locking systems (applications)

 - Per end device group**
 - 250,000 Transponders
 - Unlimited locking groups

 - Per locking group**
 - Locking rights (end devices, end device groups): 154 with small locking systems
666 with mid-sized locking systems, in acc. with the defined size of the locking system
 - Unlimited persons



- Programming** — All locking rights are programmed in the OPERTIS eLOCK eXpert software. All pending programming tasks are listed in the ToDo menu.
Data transfer can be done selectively over:
- ▶ OPERTIS NFC Stick in combination with the OPERTIS eLOCK eXpert software (at end devices and transponders)
 - ▶ OPERTIS ToDo Card (at end devices)
 - ▶ OPERTIS eLOCK eXpert wall reader terminal (updating the transponders)
- Time profile** — **Person time profile**– Defines the validity period of the transponder
End device time profile (Office Plus software license) – Defines the timepoint (open/close or only close) for the automatic activation/deactivation of Office mode.
One time profile consists of a maximum of 10 slots. Each slot defines a timepoint (from/till) and the corresponding weekdays and special days.
- Office mode** — Special operating mode: Serves to be able to open a door with authorisation checking, e.g. for opening a door during the working day to allow public access
Activation/deactivation is done through a special routine directly at the end device and is reserved for transponders for which this additional authorisation has been released.
- Fire service mode** — is activated exclusively when a fire service transponder is used. If the end device is in fire service mode, the door can be opened without presenting a transponder. Fire service mode is always indicated through a yellow light signal, irrespective of how signalling is defined in the software. Fire service mode is always activated through the authorisation check when a fire service transponder is presented.
- Ticket transponder** — the validity is limited (1 - 8,760 hours) and is activated the first time it is used. A ticket transponder can be released for 24 hours, for example, from the first usage. Each transponder belonging to a locking system can be programmed as a ticket transponder, through a special programming routine.



Available end devices

Wall scanner

- For doors with automatic control. The wall controller sends a triggering signal, e.g. to the automatic door, car park barrier, elevator door or electric door opener
- Interior or exterior deployment, depending on components used
- The wall scanner can use the software's online functions through an online licence. For example, transponders can be updated through a wall scanner with an online licence

Knob cylinder and half-cylinder

- Simple and quick installation
- Modular construction for extra flexibility, e.g. simple, retrospective extension
- Knob cylinders can be deployed on internal and external doors
- Large number of options, e.g. APS, with a defined position of the locking lug for doors in escape and rescue routes, FZG, with freewheel function for gear locks in escape door locks, Waterproof, for outdoor use or fire protection (120 minutes).

Lever Cylinder

- for thin-walled doors on mailboxes, control cabinets and similar closures that can be closed on one side.

Comfort system APS

- Convenient handling
- Attractive design, through the minimalist design of the antenna caps
- Can be discreetly integrated into any building design
- Opening is done by simply presenting an authorised transponder
- for internal and external fire protection doors and emergency exit and escape route doors



System components

Software including Smart Office License	Software for managing, controlling, programming and documenting one or more different eLOCK eXpert locking systems. Including OPERTIS eLOCK eXpert Smart Office license ES327.2002. For PC or server installation.
NFC Stick	USB 2.0 Stick, including USB extension, for connection to a PC with OPERTIS eLOCK eXpert software installed. The NFC interface is used to program the OPERTIS eLOCK eXpert transponders and end devices.
PC Set	Set for managing, controlling, programming and documenting one or more different eLOCK eXpert locking systems. Consisting of: <ul style="list-style-type: none">▶ ES327.2000 OPERTIS eLOCK eXpert software including OPERTIS eLOCK eXpert Smart Office license, software documentation and quick start guide▶ ES307.2000 OPERTIS eLOCK NFC stick including USB extension
Client Tag	Transponder as a security medium: <ul style="list-style-type: none">▶ To activate and configure a new locking system.▶ For data backup of the locking system identification, which authorizes the end devices and transponders to be reset to the factory state in the event of data loss from the locking system software.
ToDo Card	Transponder card for data transfer between the OPERTIS eLOCK eXpert software and the end devices. Optionally as an additional option for programming the end devices without direct communication to the OPERTIS eLOCK eXpert software.
License Card	Transponder card for storing transponder licenses and transferring the desired license quantity to the OPERTIS eLOCK eXpert software.
Online License Card	Transponder for transferring an OPERTIS eLOCK eXpert online license to the eLOCK eXpert software. The online license unlocks the OPERTIS eLOCK eXpert software to use the online functions for a wall reader.
Fire brigade transponder	Transponder for opening the door (master key) and simultaneously activating the fire brigade mode. Key ring in red, with fire brigade transponder symbol and OPERTIS logo.



Software licenses

- Smart Office License** — Licensing of the OPERTIS eLOCK eXpert software for unlimited use of the Smart Office functions:
- ▶ 65,000 doors
 - ▶ 250,000 transponders
 - ▶ 5 individual time profiles + “Always” time profile
 - ▶ Office function
 - ▶ Fire department function
 - ▶ Reports and wizards
 - ▶ Unlimited clients
 - ▶ Usage rights for one PC (client)
- The Smart Office license forms the basis for all other eLOCK eXpert software licenses.
- Office Plus License** — Activation of the OPERTIS eLOCK eXpert software to use the Office Plus functions:
- ▶ Device groups
 - ▶ Locking groups
 - ▶ Time profiles/locking system, unlimited
 - ▶ View cross locking plan
 - ▶ Service functions: – Import and export functions of master data
 - ▶ Individual design of forms and reports:
 - Bilingual forms, in preparation
 - Individualisation of the software and print forms by integrating the customer logo
- eXpert Online License** — Activation of the OPERTIS eLOCK eXpert software to use the online functions for a wall reader:
- ▶ Updating the transponders via a wall reader
 - ▶ Automatic feedback of critical battery states of the offline devices via the transponders
 - ▶ Online programming of a wall reader
 - ▶ Reading out protocols, online, in preparation
 - ▶ Display of the door status (relay active/inactive), in preparation
 - ▶ Short-term door opening on the wall reader via the eLOCK eXpert software, in preparation
 - ▶ Activation/deactivation of the Office function via the eLOCK eXpert software, in preparation
- Multi User License** — Activation of the OPERTIS eLOCK eXpert software to use the multi-user functions:
- ▶ Unlimited number of workstations/clients
 - ▶ Individual user roles for the administrators of the locking system
- Ticketing License** — Activation of the OPERTIS eLOCK eXpert software for creating ticket transponders. The validity of the ticket transponder is limited in time (hours, weeks, days) and is activated the first time it is used. A ticket transponder can be activated for e.g. 24 hours from the first use.
- Transponder Licenses** — License to activate a new transponder in the OPERTIS eLOCK eXpert software..



System requirements

- Operating system** ————— Each in 32 bit and 64 bit versions:
- ▶ MS® Windows 7 + latest SP
 - ▶ MS® Windows 8 + latest SP (not Windows RT)
 - ▶ MS® Windows 10 + latest SP
 - ▶ MS® Windows Server 2008
 - ▶ MS® Windows Server 2012
- Software to be installed** ————— The software to be installed is included in the scope of delivery of the OPERTIS eLOCK eXpert software.
- ▶ OPERTIS eLOCK eXpert Software
 - ▶ MS® .NET Framework Version 4.5
 - ▶ Driver for NFC stick
- PC Hardware** ————— From 2 GHz (recommended current computer)
- Tablet Hardware** ————— Tablet with Windows 8 operating system and USB 2.0 interface for using the NFC stick.
- Hard drive capacity** ————— From 10 GB for program storage requirements including movement data
- RAM** ————— From 2 GB
- Screen resolution** ————— At least 1,280 x 800 pixels
- Drives** ————— If necessary, for installing the OPERTIS eLOCK eXpert software via CD.
- ▶ CD ROM or DVD ROM
- Interfaces** ————— For using the NFC stick.
- ▶ USB 2.0 interface
- Internet access** ————— If necessary, for downloading the OPERTIS eLOCK eXpert software and its updates as well as for remote maintenance.



Ordering information

Starter kit

ES327.1000	PC set (Software CD, Smart Office license, NFC stick incl. USB cable)
ES327.2008	Client Tag

Software licenses

ES327.2002	Smart Office License
ES327.2003	Office Plus License
ES327.2004	Online License Card
ES327.2005	Multi User License
ES327.2007	Ticketing License

Transponder licenses

ES307.2003	License Card, blanko
ES307.2004	License Card 5 with 5 transponder licenses
ES307.2005	License Card 250 with 250 transponder licenses
ES307.2006	Transponder license

Individual products, software and updates

ES307.2000	NFC Stick
ES307.2001	ToDo Card
ES327.2000	Software, including Smart Office license
ES327.3000	Software update