

Shaping security

U2



*Electronic locking and
security management*

THE SYSTEM

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Uhlmann & Zacher has been established in the electronic locking systems market since 1996. With numerous patented product developments and system enhancements, Uhlmann & Zacher has set new benchmarks with Clex prime in the field of transponder technology-based locking systems.

The Clex prime system

The Clex prime locking system is an electronic locking system using transponder technology to secure various types of buildings. It meets all security requirements for office, industrial and administration buildings as well as public buildings like hospitals, universities or airports. Even the more complex requirements for hotels and recreational facilities can be met using specific system properties.

The location and time of access to a building can be set with the electronic locking system. Mechanical locking systems quickly reach their operating limits since lost keys pose a major security risk.



The mechanical locking system is replaced by a system that is easy to manage and secure.

Whether used as an offline system or a wireless network controlled via access points, whether used as a passive transponder or active function transponder with many service functions – the options are almost endless.

With its two expansion stages, locking systems with up to 60,000 keys can be installed. Up to 60,000 cylinders can be used in one locking system.



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Assigning access rights

Locking group

The affiliation of the key to one or more locking groups (max. 296) is stored on the key during its programming. These can be randomly combined for each key and for each door. In addition, 5,000 extra-groups can be optionally used.

Individual authorization key

Up to 16 single lockings for individual doors can be added for each key.

Individual authorization door

The authorized keys can also be stored in the memory of the electronic locking unit in the door. In this case, the key is transmitted directly via the network for online systems and for offline systems they are transmitted to the locking unit with the help of the service device, ClexTouch or access points.



Key programming

Time profile

Each key can be programmed with an individual time profile.

Time switches

Each door can be programmed with up to 20 different time switches for permanent releases.

Automatic expiry date

In addition to the time profile, each key can be programmed with a 24h expiry date, which ensures that the owner of the key can update the access right at the programming terminal.



Permanently open from 08:00 hrs. to 17:00 hrs.

Our Product Range

Electronic Locking Units



CX6122
Knob Cylinder



CX6162
Compact Knob Cylinder



CX6124
Double-Knob Cylinder



CX6166
Compact Half Cylinder



CX6126
Half Cylinder



CX6182
Double-Knob Cylinder



CX6140, CX6142
Double-Knob Cylinder



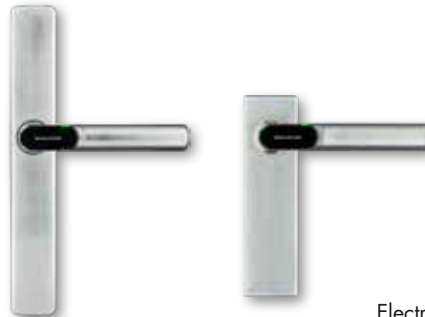
CX6172
Electronic Door Handle



CX6190
Furniture Lock



CX6192
Cabinet Lock



CX6174
Electronic Door Fitting

Programming



CX6510
Service Device



CX6520
Programming Station



CX6522
ClexTouch Software*

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Wall Mounted Readers and Actuators



CX6132
Wall Mounted Reader
New Generation



CX6552
Automatic Programming Terminal
New Generation



CX6134
Wall Mounted Reader
Outdoor use



CX6554
Automatic Programming Terminal
Outdoor use



CX6930
Security Relay Module



CX6910
Remote Module

Radio Modules



CX6920
Access Point



CX6922
Radio Reader



CX6932
Radio Switching Module



CX6934
IDS Module



CX6940
Access Point LAN



DEVELOPMENT PRINCIPALS

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There are various and high requirements to a modern electronic locking system. In order to convert these requirements into reliable, practical product solutions, all the Clex prime system components are developed on the following principals: **Clarity, flexibility and openness.**

Clarity

All the locking system products are characterized by

- self-explanatory use,
- easy installation and
- traceable management.

Clear focus on user orientation – the most advanced encryption algorithms for a highly secure data exchange in the background.

Self-explanatory use

Design with added value: The components not only look good but they also blend in with the surrounding architecture. Successful authorizations are clearly indicated using green LEDs. Handle recesses on the knob module provide the necessary support.



Clear signaling thanks to the LEDs



Hand recesses for better support



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Easy installation

The cylinder (CX6122) is easy to install without any special tools and wiring. You can obtain the desired electronic locking cylinder by simply plugging in the

components. Removing the old, mechanical cylinder and installing the new Clex prime locking cylinder can be done within a minute.



Traceable management

Changing the program, reading the incidents and firmware updates are easily managed by the ClexTouch software for Tablet PCs or via the service device via radio. Self-explanatory user guide for easy exchange of data between the Keyvi management software ensures clarity.



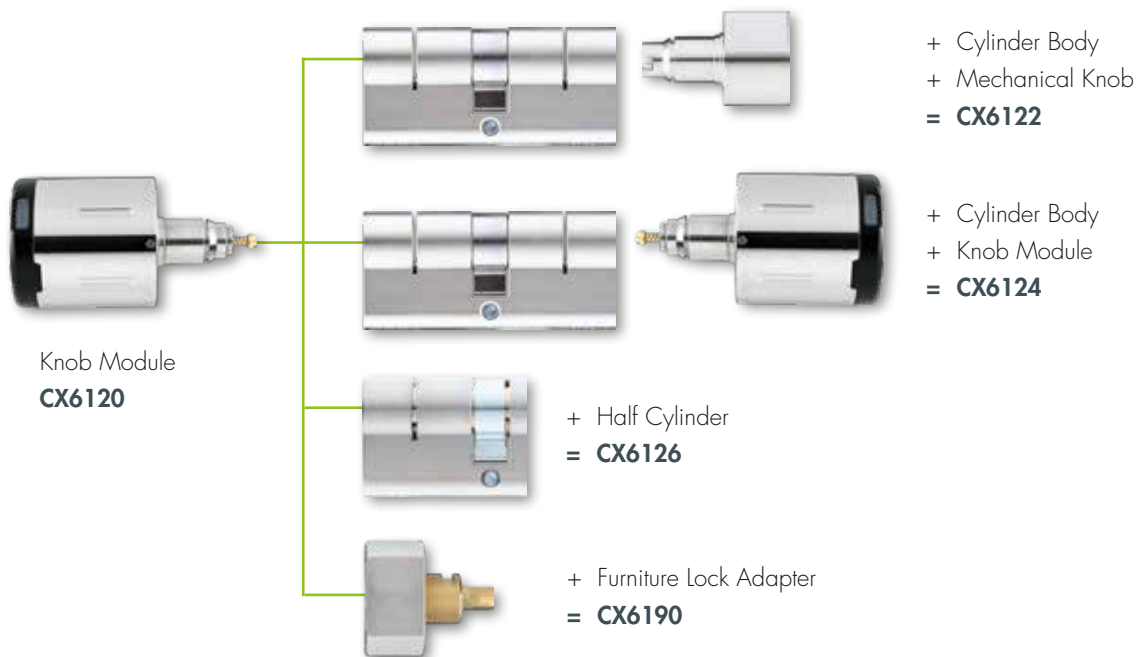
DEVELOPMENT PRINCIPALS

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Flexibility

If the locking system in existing buildings needs to be gradually converted to a modern electronic locking system, the installation of the locking system components should

adapt itself to the progress of upgradation work. The modularly designed Clex prime locking system allows maximum flexibility:



Knob module

The programmed knob module CX6120 has multiple uses: Depending on which components are installed, the knob module can work as a furniture lock, half cylinder or double knob cylinder.

If mechanical knobs are initially desired on the other side of the door in the building, these can be replaced by electronic knob modules at a later date. Thus a CX6122 can be converted to a double knob cylinder with two-sided electronic authorization in no time: the CX6124.



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Wall mounted reader

With the integrated relay, the wall mounted reader connects the parking gate or entrance gate. It becomes an online reader by connecting to the online service. If the security requirements are more stringent, the wall mounted reader can be connected to the security relay module. If more outputs are needed for example for elevator control systems, Clex prime is flexible here as well: one or more remote modules are simply connected with up to 128 relays.



Radio network

All the components of the Clex prime system (for example, cylinder, wall mounted reader, door fittings) are pre-configured for radio network (Clex Radio Net). If there is a need for an online connection, only the access points have to be brought within the radio range in order to connect components via the Keyvi management software.



DEVELOPMENT PRINCIPALS

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Openness

A modern locking system management should be available for small and large buildings and should not seal itself off from the outside, figuratively speaking. The Keyvi management software allows the management of projects ranging from small to very complex locking systems with distributed locations via a SQL server connection.



Equipped for outdoor use

Transponders

The Clex prime system is open to all the commonly available transponder technologies. The passive transponder types MIFARE® DESFire® and LEGIC® are recommended as the leading technologies at present. Older passive transponders such as EM, HITAG, MIFARE Classic® and LEGIC® prime are supported. Active radio transponders working with 868 MHz can also be used.



Open with active transponders





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Interfaces

The Clex prime system provides interfaces at all technical levels. The connection for external systems like time recording, intrusion detection systems, access control and building control systems is possible on a data or transponder level.

With the Clex prime developer package, it is possible for interested partners to run all the functions of the Clex prime system like „add new door“ in the background using the XML interface and to manage the system with their own software.

In addition, transponders can also be updated and validated by the third-party system.

Existing personnel data can be synchronized using CSV files.

At the electrical level, almost all components of the Clex prime system (for example, cylinder, wall mounted reader, door fittings) can be remotely controlled using the radio switching module by connecting an input or by sending a specific command on the RS485 bus.



IN ACTION

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Our product developments contain numerous patents. Each product is unique in its own way and has been designed for specific areas of application. The combination of different products enables individual locking system solutions for each and every requirement in the building.

All the locking units within the Clex prime family can be combined with one another. Similarly, all the cylinders can be installed without mounting holes into conventional DIN PZ locks and are pre-configured by default for radio networking using 868 MHz. Alternatively, selected products are also available with Bluetooth® low energy. The technology can be used uniformly worldwide.

The **knob module CX6120** along with the various individual components of the Clex prime family can be used in a flexible manner. In combination with the half cylinder, it can be installed in garage doors or padlocks. Mounted on the furniture lock adapter, the knob module CX6120 becomes an electronic furniture lock. By replacing the CX6120 with the CX6120 IP66 which is suitable for external doors, there are no limits for outdoor applications.





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The **security cylinder CX6182** makes forcible entry almost impossible thanks to its drilling and pulling protection – ideal for building entrance doors.



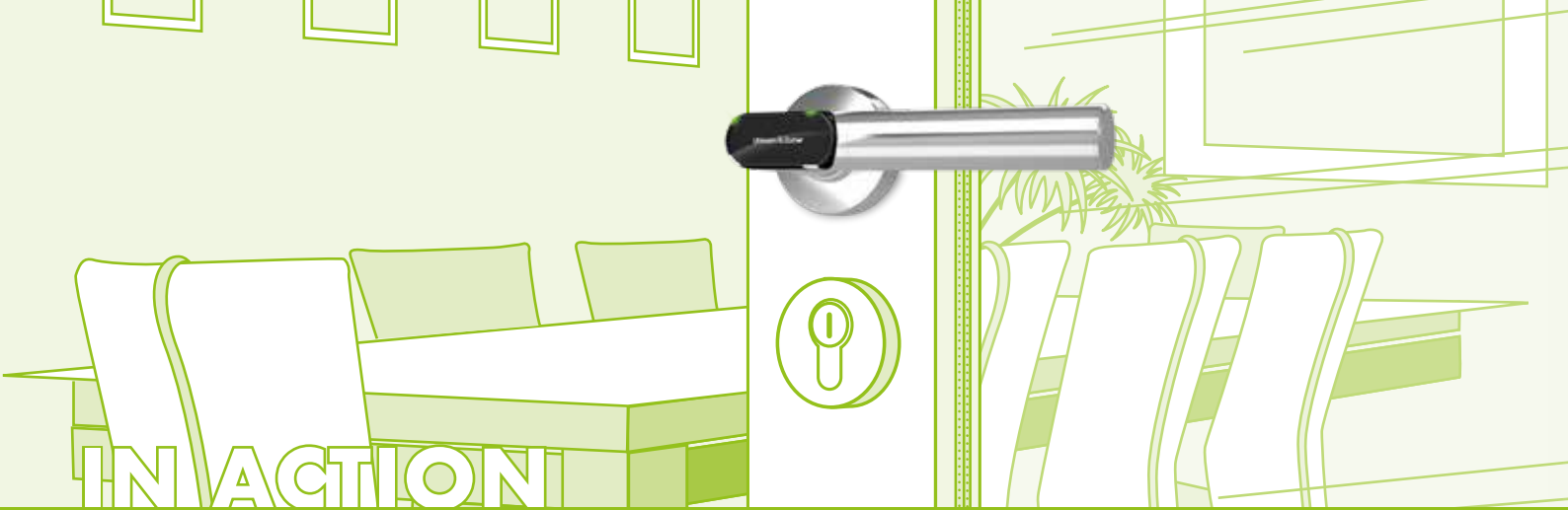
Thanks to the inbuilt mechanism, the **knob module as CX6122 AP** (Anti-panic version) turns the cylinder cam automatically to the specified six o'clock position after use – as it is required in some locks in emergency exit doors.



The **wall-mounted reader CX6134** can withstand severe weather conditions and is therefore particularly well suited for use in open outdoor areas.



In the **compact knob cylinder CX6162** all the security-related components such as motor, gears and coupling are safely housed inside the cylinder adapter.



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Be it interior doors, storey doors or connecting doors – the electronic door handle and the electronic door fitting can be installed virtually in all commercially available doors – and electronically control the access to the doors. With different versions, the product range offers almost limitless options. Other system components complete the portfolio for equipping buildings completely with one electronic locking system.

Combining the functions of the door fitting with the benefits of the Clex prime locking system: the **electronic door handle CX6172** and the **electronic door fitting CX6174**. With its different versions, it can be used in all the conventional doors such as wood, steel and aluminum doors as well as doors with narrow frames having a back-set of more than 20 mm. The complete

electronics and mechanical parts, LED signaling as well as power supply have been fitted in the small space of the door handle. The installation in doors is possible without wiring or special tools. Different door handles enable the electronic door handle and fitting to be adapted to the aesthetics of the architectural features.





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The **door fitting with short plate CX6174** is especially suitable for use in fire and smoke resistant doors and can be installed along with the appropriately certified lock in emergency exit locks in accordance with DIN EN 179.



Can be universally used in cabinets and lockers thanks to the integrated standard lever lock: the **electronic cabinet lock CX6192**. Easy installation guaranteed.



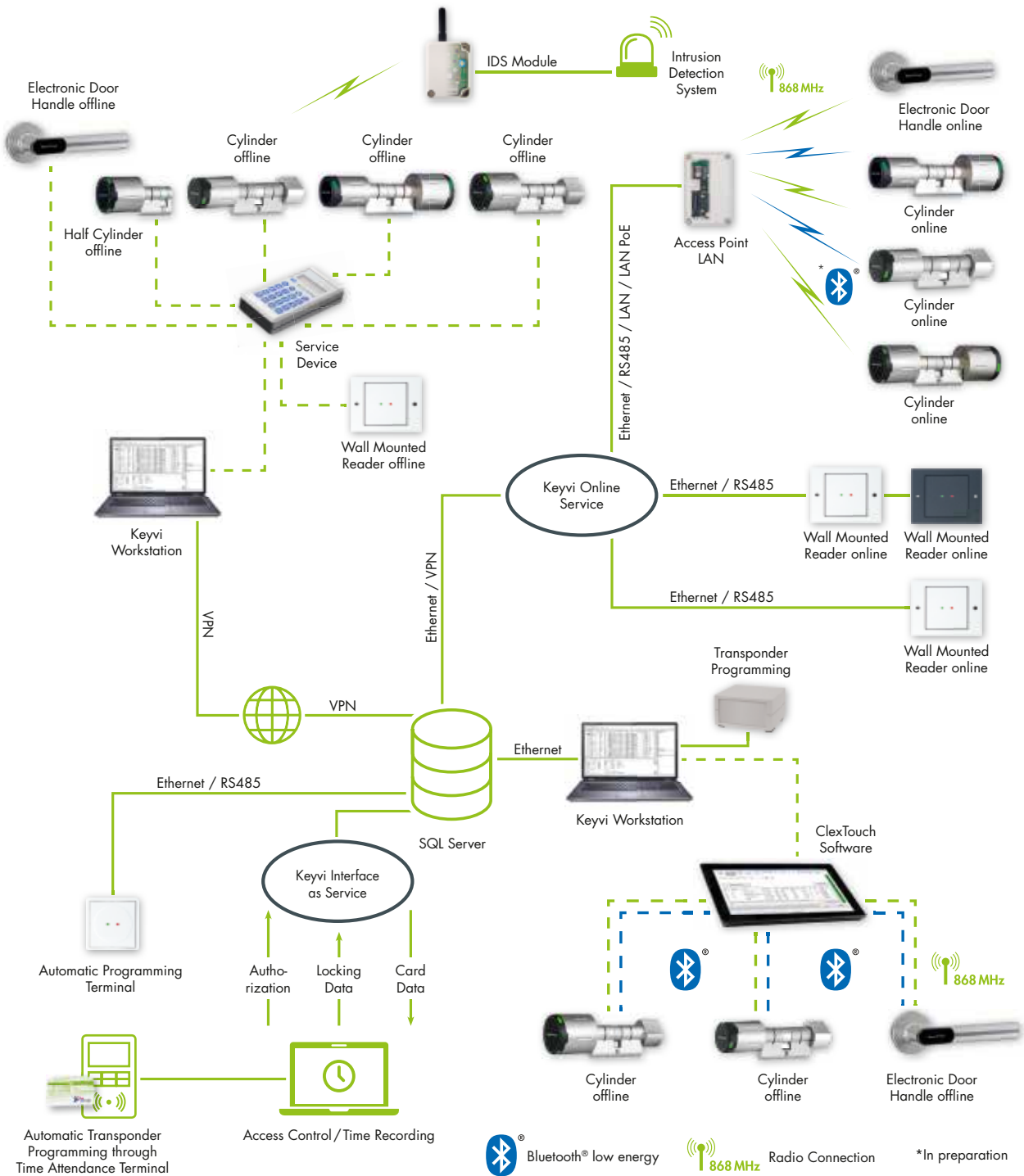
Information exchange made easy: The practical and robust **CX6510 service device** programs the locking system on-site and transmits the data to the Keyvi management software. Programming authorizations for doors and keys, reading incidents. This makes the CX6510 very versatile.



Optionally, the powerful software of the **service device ClexTouch** can be used. The software, which is specifically designed for Windows hand-held computers with touch function, also provides advanced functional features. ClexTouch becomes an effective configuration platform by connecting it with the Keyvi database.

Uhlmann & Zacher

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Subject to errors and changes. Pictures can differ from the actual product. 2018-06-EN

