

ekey[®] TOCAnet



Your finger is the key

Your finger is the key



INCREASING REQUIREMENTS AND THE PROBLEMS OF THE HITHERTO EXISTING SYSTEMS

The systems hitherto used for property and/or people protection, such as keys, cards, passwords, access codes, etc. bear significant inconveniences considering the increasing requirements in terms of security: misplaced, forgotten or even lost keys, forgotten passwords and stolen cards – just to list some examples – open literally all the gates to unauthorized people. Bigger groups are often concerned about administration and user rights overview (eg key records).

THE SAFER ALTERNATIVE

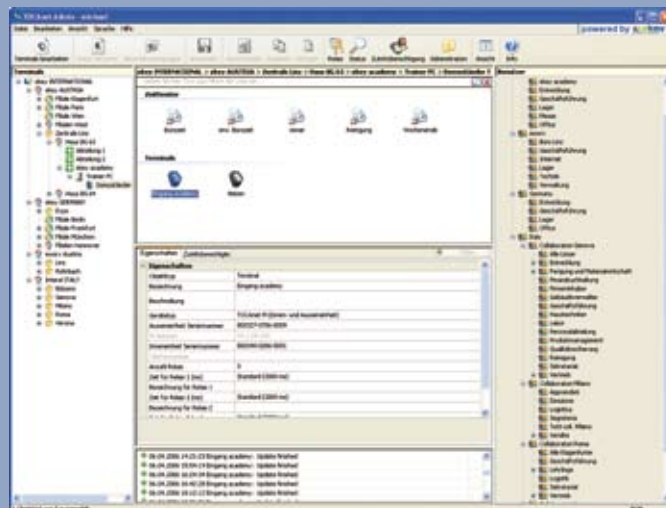
ekey® offers thanks to its unique products a convenient and safe alternative to keys, cards, access codes, etc

The basic technology is biometrics, which consists in the recognition of a person's unique characteristics. By using the fingerprints scanning, unauthorized and authorized people can be differentiated.

Authentication through fingerprint is recognizedly one of the safest methods. This technology, used by ekey®, guarantees utmost protection in comparison with the traditional systems.

Since ekey® does not save images of the finger but instead the digital key the system generated from the scan, no fingerprints can be intercepted from the electronic data flow and subsequently misused.

HIGH CONVENIENCE, LOW COSTS



Apart from security, convenience and costs are also of big importance. Expensive investments and maintenance are now part of the past thanks to the ekey® access solutions. Keys and cards do not need to be recorded, codes and passwords do not need to be memorized anymore.

The application field is in all domains where customers need a networked, professional access solution.



Advantages

Simple – safe – convenient

Employees do not need any keys anymore

No more keys can be forgotten, lost or given to unauthorized people anymore

No key records needed anymore – time-consuming recording superfluous

Rights can be changed anytime by the administrator within the company itself

Low purchase and operation costs in comparison with other products

Economically priced up to utmost complex solutions - from SME (small and medium-sized enterprises) up to corporate groups

User-friendly operation

Worldwide networking

Multilingual

Can be combined with any existing electric or electronic locking system, multi-point locks, etc.

Can be combined with any intercommunication system, code lock or card reader.

Easy installation

Full outdoor capability for the terminals

Day and night operation possible

Several terminal types and colours

The existing network may be used with the help of a RS485/LAN converter

Access authorization for employees or visitors, as wished

Access records

“Alarm function”: both the opening of doors as well as a silent alarm can be activated simultaneously through one single finger thanks to a second relay

Made in Austria



WHAT IS SO SPECIAL ABOUT ekey[®] TOCAnet?

The ekey[®] TOCAnet software links several dispersed biometric access systems (terminals) to a technically adequate network and allows the company to administrate with a high level of convenience a theoretically unlimited number of users (according to the terminal type used), terminals, time frames (during which access is authorized).

The ekey[®] TOCAnet M hardware may administrate up to 200 fingers, both over the network and also when the network is not available. When the network in operation there is a continuous data synchronisation between servers and terminals.

Access controls with different time or access rights is possible as well as temporary access for guests or external employees. Special emphasis was laid during the development of ekey[®] TOCAnet on simple and convenient administration of users, access terminals, time frames and access rights directly from the administrator's PC.

Your finger is the key

RANGE OF USE

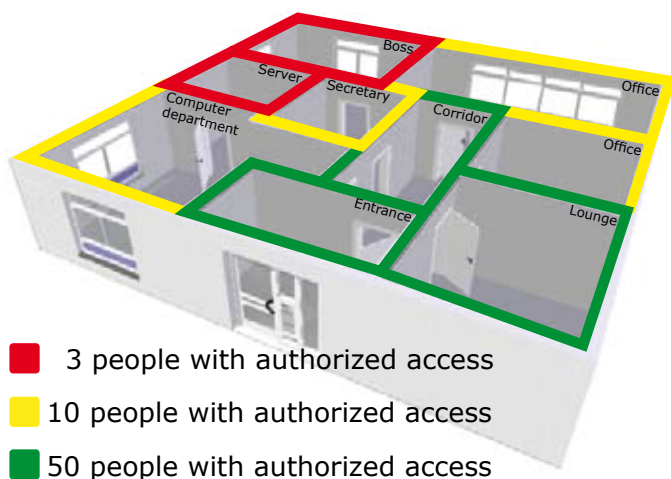
Any kind of buildings, whether for the main entrance, a lift, a restricted building area, a server room, archives or other rooms, which should be secured.



Features

- Offline terminal capability
- Good scalability
- User administration via PC
- 2 steps server concept
- Operation via VPN possible
- Customizable - adapts itself to the company organization
- Time frame definable as needed
- User administration
- Unlimited users
- User import / export
- User picture
- Fields to be defined as needed
- Unlimited number of administrators
- Rights administration
- Records: CSV or ODBC format
- "Second set of eyes control" system ("works council function")
- Records of all occurrences
- Terminal / building administration
- Architecture as wished
- Administration of the terminals
- Access authorization for groups
- Authorized users visualization
- Terminal status visualization
- Documentation together with the building plan

4



- 3 people with authorized access
- 10 people with authorized access
- 50 people with authorized access

APPLICATION FIELDS

Following the motto **Your finger is the key** there are numerous ways of implementing ekey[®] TOCAnet. Everywhere where people are given access rights, this can be done in a simple, convenient and secure way thanks to biometrics.



Doors



Barriers



Gates / Garage



Alarm system



Lifts



Vaults / safes

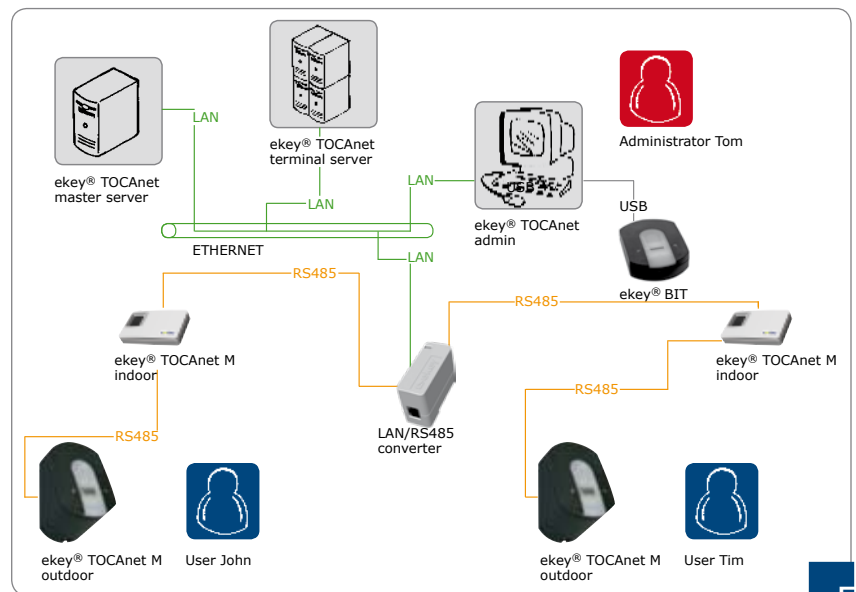


Public facilities

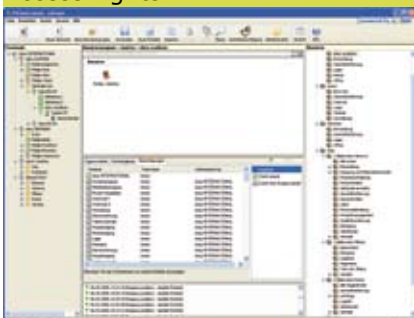


ARCHITECTURE

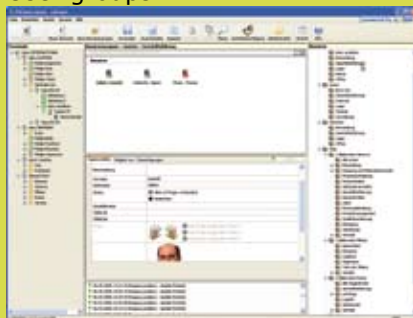
Consists of three software components: master server, terminal server and administration software. These software components can either be installed on one or on several computers. The administrator(s) administrate the users in one or several buildings through the company network. The finger scan data of the authorized people are sent via LAN/RS485 to the corresponding door terminals.



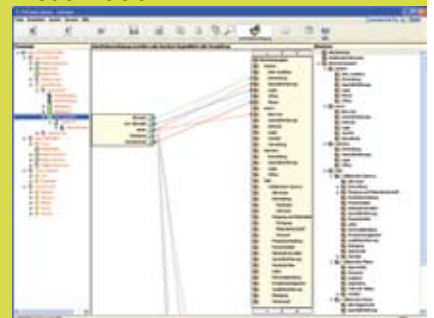
Access rights



User groups

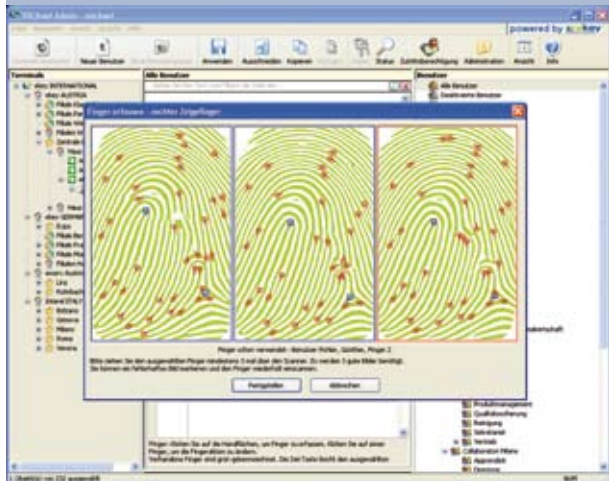


Visualization

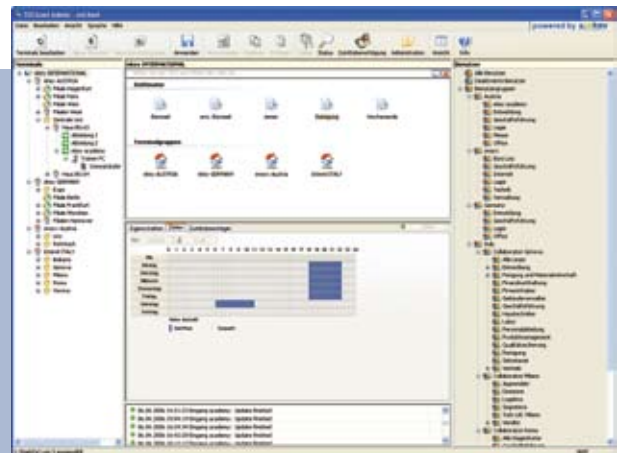


Your finger is the key

EKEY® TOCANET ADMIN SERVER SOFTWARE



Finger enrollment



Time administration

BIOMETRICS & SECURITY

Biometric systems have been used for many years now. Current systems can scan optically, capacitively or thermally. Thanks to its high manipulation safeness, resistance against environmental factors and high-quality scan results, we chose to use a thermic line sensor.

Special characteristics (minutia) are filtered out of the scanned image and filed and/or compared as a biometric key. No image data are saved. Only a binary code is saved, which can under no circumstances be transformed back into a finger image.



... and that's how it works!

Just slide your finger down gently and at a moderate speed over the thermic line sensor.

Simple – convenient – safe!



Compulsory accessories

Examples of electric / electronic locking systems

ekey[®] BIT

This USB finger scanner allows capturing the image of the finger on the PC (finger scan).



Electric locking plate (electric door opener)



RS 485/LAN converter

This converter is needed in order to convert internal BUS system data from the indoor and outdoor units into standard LAN cable data. For details about the needed quantity of converters please check the technical specifications.

Digital locking cylinder (for instance SimonsVoss)



Optional accessories

Cover round PI anthracite



or white



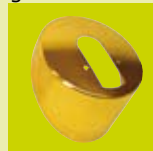
Cover round St or



St sec



gold



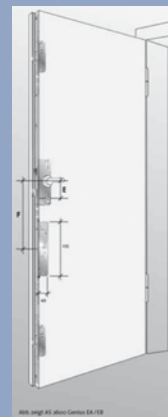
Weather protection St



In-wall mounting set St



Electric multi-point lock (for instance BKS, KFV, Roto, Winkhaus, ...)



St = Steel / PI = Plastic / sec = security - inhibits vandalism

Technical specifications ekey® TOCAnet M

Relays	3 relays for doors, gates, alarm systems 230VAC, max. 5A dry contacts
Dimensions W x H x D	Indoor unit (IU): 140x128x48 mm
Scanner installation height (from ground to scanner lower edge)	min. 135cm
Operating voltage	230VAC or 110 AC via adapter to operating voltage IU: 9 VAC or 12 VDC with external power adapter The OU (outdoor unit) is powered by the IU
Power	~ 1W
Interface	Connection via RS 485 (2-wire) and via converter to Ethernet (LAN)
Storage capacity	up to 200 fingers
Access protection	via finger scan, self-administration
Temperature range	--40°C up to +85°C
Humidity	max. 95%, IP43 outdoors, IP54 indoors (metric screwing)
Biometric figures	FAR: approx. $1,0 \times 10^{-5}$ bei FRR $1,4 \times 10^{-2}$
Power outage	data are saved and will not be deleted
Sicherheit AE	manipulationsgeschützt
Manufacturer warranty	24 months
Life time cycle	4 million fingers may be slid over the scanner under normal conditions

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OTHER ekey® PRODUCTS

Biometric access controls - key replacement

ekey® TOCAhome
ekey® TOCAhome pc

Biometric PC protection - password replacement

ekey® LOGONpro
ekey® LOGONserver

Biometric time registration - card replacement

ekey® TIMEweb