Nemlock

Online Access Control System

Factsheet

www.picatek.dk

Introduction

Nemlock is an online Access Control System that is easy to install, maintain and use. It can be used in the most complex Access Control environment with thousands of users and locks but also with a single lock and few users.

Where can **Nemlock** be used ?

1. Private houses with one or few doors and several users that entering the house on an everyday basis.
2. Rental housing where there are many ever changing users for short or long period of time.
3. Apartments in apartment buildings with or without street door lock. **Nemlock** can be integrated seamlessly with existing lock installation.
4. Public facilities serving sports and cultural arrangements where there are many users with different access permissions like inference counting.
5. Club houses and equipment enclosures, like training centers, swimming pulls, meeting rooms Sport halls etc.
6. Small and huge hotels with many rooms and other facilities with access control. ex. Back/front doors.
7. Factories/commercial buildings with need for granulated access control
8. Hospitals
9. Municipalities with many geographically distributed facilities where large number of users needs detailed granulated Access permission.
10. Multinational organizations with need for centralized Access Control management.

How it works

Nemlock Controller waits for access request from a user, it then contact an online user management system, verify the current user's permissions and open the lock if user is authorized.

User identification

Users can be identified by the following methods:

1. Mobile device with Wi-Fi
2. Web links
3. NFC tag
4. IButton fob
5. Keypad
6. Fingerprint reader

7. Combination of the above. Ex. A tag and then a keypad

Online user management systems

For verifying users **Nemlock** controller must contact a user management system. This can be any system with public API that allows querying user permissions. As an example **Nemlock** can use www.Conventus.dk as a user management system. Please contact us to hear more about which systems are supported and how we can help with user management with complex requirements like entrance counting, time constraints, lock trees, facilities booking, etc.

Security

Nemlock security is heavily dependent on both user identification method and communication to the user management system, and the user management system as well. **Nemlock** uses SSL for all network communication and it must be supported by the user management system.

System requirements

1. **Communication**
   Nemlock must be able to communicate with user management system, where users permissions are maintained. **Nemlock** Controller has a build in Wi-Fi and in most cases can use existing wifi infrastructure. An optional RS485 communication is also available.
2. **Power**
   220V AC
3. **Door strike**
   Any standard 12 or 24V door strike.

Tag preparation

In cases where users are required to use NFC tags, no extra equipment is needed. Each **Nemlock** controller equipped with NFC antenna can also be used for preparing tags.

Configuration

Nemlock Controller configuration (ex. which Wi-Fi network should be used) is done by standard browser running on any Wi-Fi device. A **Nemlock** Controller has its own Wi-Fi network and web server for configuration purposes.

Installation

Nemlock Controller is delivered in a small (130 X60 X90mm) water proof plastic case ready to be mounted close to the lock and within a range of the local Wi-Fi network.
In cases where user identification hardware is being used, there will be some restrictions on distances. Please consult us for the details.

Conventus integration

Organizations that already using Conventus, will dramatically simplify and reduce user access management by using **Nemlock.**
Please contact us to find out how your organization can benefit from **Nemlock** and its Conventus integration.

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