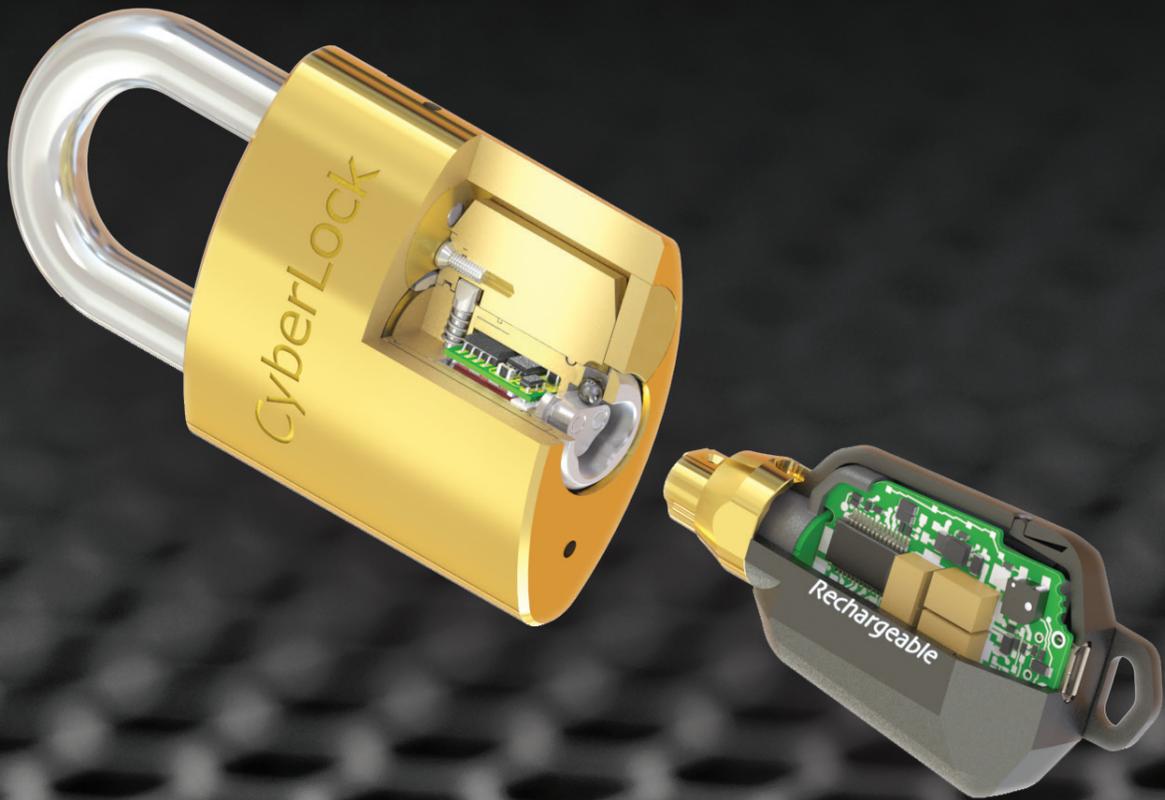




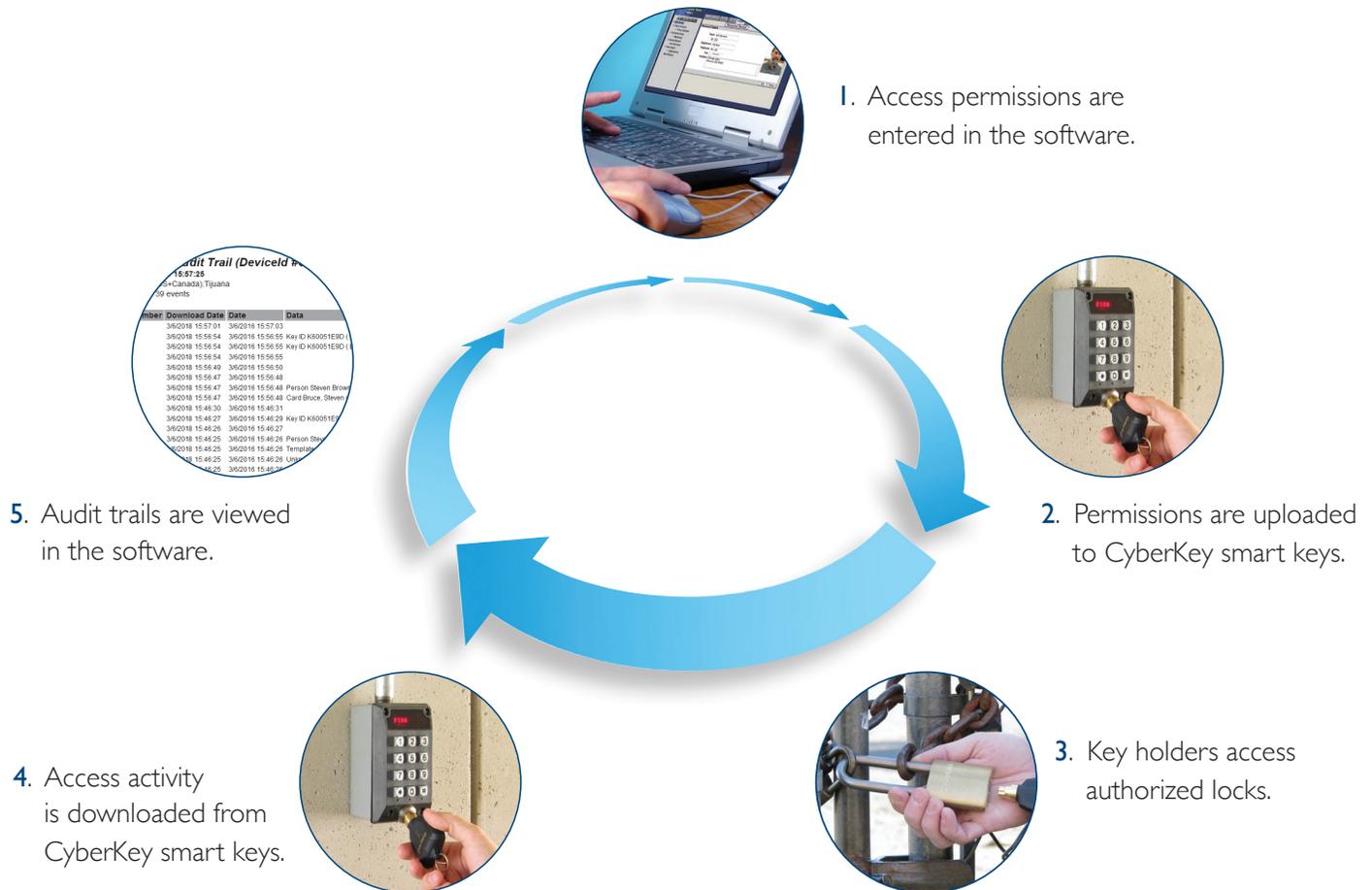
Innovative Solutions for Real World Security



# A World of Benefits

-  **Versatile: Control Access to Every Asset**  
CyberLock cylinders are easily installed on gates, trucks, shipping containers, and other mobile or remote assets. Full access control is now possible on assets previously restricted to only mechanical locks and keys.
-  **Cost Effective: Eliminate Expensive Cabling**  
CyberLock cylinders are installed without power or wiring, making setup and installation quick, easy, and affordable. The batteries in CyberKey smart keys energize CyberLock cylinders, bypassing the need for expensive wiring.
-  **Reliable: Maintain Security During Power Outages**  
Power outages can be disruptive, but your CyberLock security system will not be compromised. Independence from the electrical grid allows CyberLock installations to remain fully functional during power outages.
-  **Superior Key Control: Re-Key Electronically**  
Keys are programmed with access permissions for each individual user. If a key is lost, it can easily be deactivated in the system, eliminating the need to re-key.
-  **Unifying: View All Access Events**  
CyberLock cylinders and smart keys keep a record of all access events, including access granted and access denied attempts. Administrators can view the downloaded audit report of all lock and key activity via the management software.
-  **Simplifying: Manage Everything Under One Software Platform**  
CyberAudit management software manages access not only for the electronic lock cylinders, but also for CyberLock Flex System modules—bringing remote access control and wired access under one software platform.

# How CyberLock Works



## System Management

As illustrated above, it all starts and ends with software. The CyberAudit software suite offers the feature-rich access control management solutions for installations of any size.

### Ultimate Flexibility

The software is accessed through web browsers on desktops, laptops, smartphones, or tablets.

### Maintain Network Security

Browser-accessed software doesn't have to reside in the "cloud." You may install a CyberAudit server on your own network, following your own security protocols.

### Manage Schedules

Administrators can create customized access schedules for each individual key holder, or batch schedule entire departments.

### Generate Reports

System administrators can create and view custom audit reports on access activity and create automatic email notifications for specific events.

# CyberLock Electronic Lock Cylinders

CyberLock cylinders easily retrofit into existing hardware and are the exact dimensions of the mechanical lock cylinders they replace. The absence of a conventional keyway means they are not vulnerable to traditional lock picking techniques. As CyberLock cylinders need no power or wiring, they are ideal for everything from an office building to mobile or remote assets.

## Electronic Cylinder Features

- Contains a unique ID that cannot be changed or duplicated
- Has the ability to store over a thousand access events:
  - Key ID
  - Date & Time
  - Event Type
- Retains encrypted access codes that bind the lock to a specific system

## Cylinders for Doorways

Retrofit knob and lever locks that accept Schlage® 6-pin and Yale® 6- or 7-pin format cylinders. Rim, mortise, and European profile cylinders are also available.



## CyberLock Padlocks

Manage access to cargo bays, trucks, gates, control boxes, and more. Cylinders include additional protection against the elements for padlock applications.



## Cylinders for Cabinets

The compact size of CyberLock cam locks makes them ideal for securing desk drawers, fare boxes, jewelry display cases, medical cabinets, and server racks.



## IC Cylinders

Easy-to-install interchangeable core cylinders work on door and cabinet applications.



## CyberPoints for Checkpoints

A CyberPoint is an electronic tag used as a data checkpoint. Each touch of a CyberKey stores a date and time stamp record in both the CyberPoint and the key. CyberPoints are designed for guard tours, maintenance checks, and inspections.



## High-Security Drill-Resistant Cylinders

A number of CyberLock cylinders incorporate additional safeguards such as drill and tamper-resistant features. These cylinders are ideal for financial applications such as cash-in-transit, vending machines, parking meters, and ATM machines.

## Custom Applications

To date, CyberLock has created over 370 lock designs. Contact us to see if we have a cylinder that fits your application. If not, let's talk about designing one that does.



# CyberKey Smart Keys

CyberKey smart keys are designed with highly durable fiberglass-reinforced casings and are programmed with access permissions for each key holder.

## Smart Key Features

- Designed to prevent unauthorized duplication of the key ID
- Each key is unique and traceable
- Has the ability to store thousands of access events:
  - Lock ID
  - Date & Time
  - Event Type
- Carries access schedules for the assigned key holder
- Retains access codes that bind the key to a specific system
- Includes a battery which energizes both the key and each lock it touches

## Permissions and Schedules

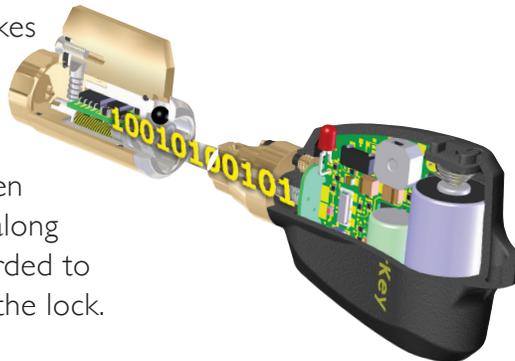
Each key contains a specific list of authorized locks and a schedule of when they may be accessed. For example, a key can be programmed to allow access to one or several locks from 8 a.m. to 6 p.m. on weekdays and 10 a.m. to 4 p.m. on Saturdays. If that key is presented outside the schedule access is denied.

## Key Expirations

Keys can be assigned a start date and an expiration date. This means keys can be issued before they become active, and can be set to expire at a specific time in the future. Key holders must reauthorize keys before access will be granted again. Setting short-term expiration dates is an excellent way to minimize risk due to lost or stolen keys and to encourage frequent reporting.

## When a CyberKey Meets a CyberLock

The CyberKey smart key energizes the CyberLock cylinder when it makes contact. A split second exchange of information determines if the key is at an approved lock within an authorized time frame. Access is then granted or denied and that action, along with a date and time stamp, is recorded to the memories of both the key and the lock.



### CK-IR7

Powered by a field-replaceable 3-volt lithium battery.



### CK-PLUS

Contains an extended-life, rechargeable lithium-ion polymer battery.



### CK-BLUE2

Facilitates real-time, in-the-field communications via Bluetooth 4.2 technology. Compatible with Android and iOS devices.



### CK-AIR

Facilitates in-the-field communications and updates via Wi-Fi technology.



### CK-Flash

Rechargeable CyberKey with the ability to open CyberLock and FlashLock products. The key's permissions can also be updated via Bluetooth technology using Android or iOS devices.



IR Encoder



USB Stations



Authorizer Keyports



CyberKey Vaults



Smart Phone

# Communicators

CyberLock communication devices serve as the interface between CyberLock hardware and CyberAudit management software.

Access privileges are distributed to key holders via communicators. These devices are linked to the software over a local area network or securely over the Internet. When a CyberKey and communicator make contact, the audit trail is downloaded from the key, then new schedules, permissions, and system information are uploaded to the key.

To increase security and accountability, access privileges can be programmed to expire at scheduled intervals. When users regularly update and reauthorize keys at communicators they get better key control.

Several communicators are available to address individual, facility, and personnel needs:

## Desktop

- The IR Encoder 10 plugs directly into an available USB port on a computer. It updates infrared CyberKey smart keys while at or near a workstation.
- The USB Station plugs directly into an available USB port on a computer. It updates CyberKey smart keys while at or near a workstation.

## Remotely

- Authorizer Keyports can be installed remotely, such as in a warehouse or at an employee entrance. Needing only a network connection, the Authorizer Hub stores access permissions in memory for continued operation even when the network connection is interrupted.

## On the Go

- Use the micro-USB port on the Rechargeable CyberKey II to directly connect to a laptop. Update your key anytime and anywhere you have a network connection.
- Use a CyberKey Blue 2 with dual-mode Bluetooth 4.2 technology for on-the-go permissions updates. Select between classic and Bluetooth low energy modes to ensure compatibility with most Android and iOS mobile devices.
- Use the CyberKey Air to connect to CyberAudit software via Wi-Fi. Keys will update through the approved network at scheduled intervals or when users request updates by using the key or tapping it.

## Communicator Features

- The communicator downloads key activity and uploads key permissions.
- Communicator compatibility depends on the version of CyberAudit software installed.
- Several communicators offer additional functionality, such as charging the key battery and securely storing unprogrammed keys.

# Communicators that Store and Issue CyberKeys



## Increase Key Control and Accountability

CyberKey Vault key cabinets provide an intelligent way to control and issue CyberKey smart keys. CyberKey Vaults are beneficial for users who want to automate the process of issuing keys. CyberAudit management software tracks when a CyberKey is dispensed and when it is returned to a vault. Upon return, the vault downloads the audit trail and reverts the key to an unprogrammed state, making it available for the next user. All vault and key activity is managed by CyberAudit-Web and can be viewed by system administrators.

## Effectively Manage Access to Outside Vendors

Businesses that need to provide access to sub-contractors, maintenance companies, and vendors will benefit from the vault's ability to issue keys with access to specific locks for limited time frames. Automated email reports on vault and key activity facilitate improved visibility into sub-contractor on-site activity.

## Securely Store Keys on Site

CyberKey Vaults are beneficial for high security applications where keys cannot leave the building. Key cabinets are connected to the management software and continuously communicate access activity. System Administrators can view when a key is checked out, returned, or if it is still in the field.

## ValidiKey 2 and ValidiKey 20

The ValidiKey 2 and ValidiKey 20 Vaults have the ability to recharge, program and dispense 2 or 20 CyberKeys, respectively. Unprogrammed keys are stored in the locked vault until an approved RFID card or PIN is presented. After proper credentials are presented, the vault programs a key with specific user permissions and releases the door lock to allow the key to be removed. ValidiKey Vaults can function as stand-alone systems, or they can be scalable, so that numerous vaults can communicate within a single CyberAudit-Web account. Validikey Vaults read the ID of most unencrypted 13.56 MHz RFID cards. The front of the ValidiKey Vaults feature RFID readers with an indicator light and keypad, as well as LCD touch screens for user feedback and easy configuration.



CyberAudit software manages the CyberLock key-centric solution and has the ability to manage the hardwired Flex System with an added software enhancement module. CyberAudit is available in two editions depending on needs and compatibility. In both editions, CyberAudit software licenses are issued for a desired number of key holders.

## Enterprise Basic

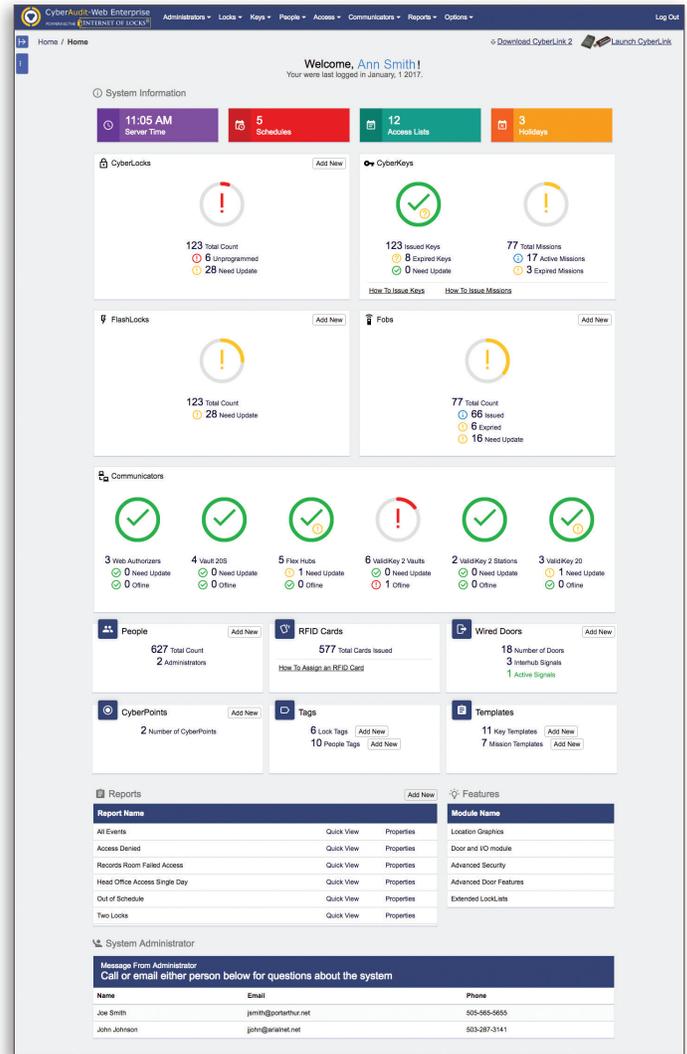
Enterprise Basic is an excellent choice for small-to-medium-sized companies that need key control and reporting. It brings a few of the essential features of Enterprise 8.0 in an easily manageable platform.

## Enterprise 8.0

Enterprise 8.0 is a feature-rich management software, ideal for large, complex and geographically widespread installations. Enterprise 8.0 offers all of the features of Enterprise Basic as well as advanced options for Bluetooth keys, Wi-Fi keys and other advanced CyberKey smart keys. Additionally, Enterprise 8.0 allows users to share locks with other Enterprise 8.0 users.

## Enterprise 9.0

Enterprise 9.0 repackages all the advanced features of Enterprise 8.0 into a sleek, refined system interface. A new home page serves as a dashboard with an interactive summary that offers immediate visibility of your system, highlighting any components that require attention. It adds support for CyberKey Flash as well as the ValidiKey 20 Vault communicator. With an optional Software Enhancement Module, Enterprise 9.0 supports FlashLocks and FlashLock fobs.



## Audit Reports

Access Attempts						
Pacific time(US+Canada);Tijuana 6 events						
Audit Trail for Flex Hub Vault20 FX - Audit Trail (DeviceId #000FB200) 2						
3/6/2016 15:57:25 Pacific time(US+Canada);Tijuana 39 events						
Event	Port Name	Port Number	Group Number	Download Date	Date	Data
28193	Door closed	b600501E1	8	1	3/6/2016 15:57:01	3/6/2016 15:57:03
67	Key downloaded				3/6/2016 15:56:54	3/6/2016 15:56:55 Key ID K60051E9D ( Bruce, Steven w. (302 - 3rd Floor Pods) )
69	Key disabled				3/6/2016 15:56:54	3/6/2016 15:56:55 Key ID K60051E9D ( Bruce, Steven w. (302 - 3rd Floor Pods) )
111	Key Ring inserted					
28192	Door opened					
121	Card scan - m					
38	People record					
35	RFID scan					
28193	Door closed					
34	CyberKey returned					
28192	Door opened					
68	Key configured					
39	CyberKey com					
Activity Log - Andrew Johnson						
3/6/2018 9:32:38 AM Pacific time(US+Canada);Tijuana 22 events						
Lock Name	Event	Date	Source	Download Date	Communicator	
895 Mile 9 Front	6	Mission checked in	3/19/2018 4:27:40 PM	CyberKey	3/19/2016 4:27:37 PM	JB Office
895 Mile 10 Back	8	Authorized to open	3/19/2018 4:20:00 PM	CyberKey	3/19/2016 4:27:37 PM	
895 Mile 10 Back	8	Authorized to open (b)	3/19/2018 4:19:56 PM	CyberKey	3/19/2016 4:27:37 PM	
895 Mile 10 Back	40	Authorized to open (b)	3/19/2018 4:19:56 PM	CyberLock/Point	3/20/2016 9:30:10 AM	
895 Mile 10 Back	8	Authorized to open (b)	3/19/2018 4:19:52 PM	CyberKey	3/19/2016 4:27:37 PM	
895 Mile 10 Back	40	Authorized to open (b)	3/19/2018 4:19:52 PM	CyberLock/Point	3/20/2016 9:30:10 AM	
895 Mile 10 Back	8	Authorized to open (b)	3/19/2018 4:19:50 PM	CyberKey	3/19/2016 4:27:37 PM	

# The Best of Both Worlds

The CyberLock system brings tremendous access control features to every access point within an organization. There are, however, circumstances where the convenience of a key card system is desired. This can be achieved with the CyberLock Flex System expansion platform.

## CyberLock

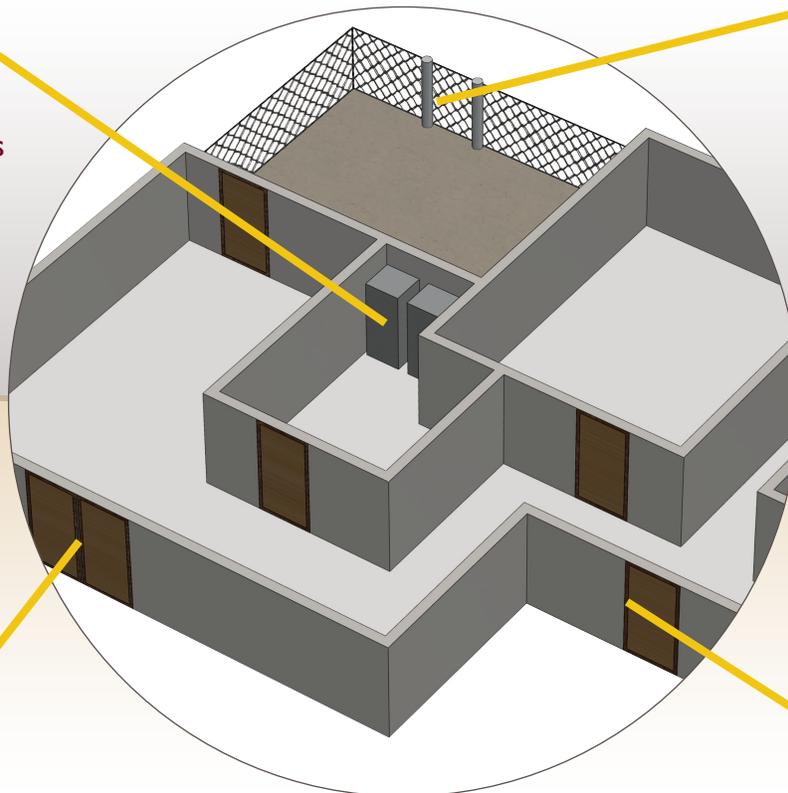
CyberLock electronic cylinders are ideal for securing access to mobile and remote assets as well as to hard-to-reach locks.



Secure server racks



Track access to perimeter gates



## Flex System

The Flex System is ideal for securing access to high-traffic areas using key cards for authentication.



Integrate existing Wiegand card readers



Use RFID cards to gain entry

With CyberLock and the Flex System, all access control requirements can be met and managed using one comprehensive, yet intuitive, software platform.

# CyberLock Flex System

Adding the Flex System to CyberLock brings the two worlds of access control together. CyberLock secures hard-to-manage applications where a key card system is not feasible. The Flex System provides the framework to support a key card system, and more, under the same management as CyberLock cylinders. The result is the best of both worlds managed within one powerful system.

## What can Flex do?

The CyberLock Flex System can control a variety of access control and security elements using both Flex System modules as well as third party security devices.

- Open a door using a PIN pad or an RFID card, or combine both for improved security.
- Program a lobby door or employee entrance to lock and unlock on a set schedule.
- Activate a light when a door is opened.
- Sound an alarm or trigger an alert with a push of a button or when a door is left open.
- Activate a video or still camera when a door is accessed.

## How does Flex work?

The Flex System is comprised of a variety of modules that can be mixed and matched to create a custom access control system. The modules are plugged into a Hub which is connected to CyberAudit management software through your network.

## The Flex System Hub

The Flex System Hub connects with CyberAudit software and provides power to the Flex System modules. Embedded memory in the Hub stores access permissions and saves audit trail information, enabling continuous operation even when a network connection to the software is interrupted. Moreover, power outages can be mitigated by connecting a back up battery or auxiliary power source directly to the Hub.



## The Flex System Modules

There are a variety of Flex System modules available for a customized access control system:

- Input modules such as RFID readers and Keypad Displays can be used individually or combined for dual-credential door access.
- Weather-resistant key vault modules can be installed in the field to securely store CyberKey smart keys for convenient remote employee access.
- The multi-function Keypoint module activates electric door strikes and updates CyberKey smart keys.

## The Flex System Door & I/O Module

The Door & I/O module expands the capabilities of the Flex System even further. As a door controller, it provides power to an electric door strike and unlocks it when an approved key card is presented. It has additional inputs and outputs that can control relay devices such as alarms, speakers, cameras, or sensors. Finally, it can connect to compatible third party Wiegand devices such as HID readers and biometric scanners.





Open FlashLock using a cell phone or tablet.

## What can FlashLock do?

Access in a flash! With FlashLock, email or text a Flash Key link using a web-enabled device to grant access. With FlashLock, there is no app to download and no Bluetooth to pair; just open the link sent from the software administrator and access is granted. Adjust permissions anytime and anywhere. Applications for FlashLock are limitless. An ideal solution for use in a wide variety of commercial applications as well as residential or vacation homes, college dorms, apartments, hotels, churches, and more. FlashLock gives owners of all properties the ability to control who enters what space and at what time. This is all done without the use of a key, access card or PIN. FlashLock puts access control in the palm of your hand.

## How does FlashLock work?

FlashLock uses patented Serial Optical Communication technology. When a Flash access link is opened on a web-enabled device, a unique pattern of flashes is displayed on the devices screen. Press the screen to the lock face, twist knob, and open. Access in a flash!



Open FlashLock using an infrared key fob.

## FlashLock

Designed for use in a wide variety of commercial applications as well as residential or vacation homes, hotels, apartments, and much more. Rugged metal enclosure with the ability to open and record up to 11,000 events.

## FlashLock Padlock

FlashLock Padlock is IP68 rated, making it ideal for unpredictable climates. It has a heavy brass and stainless steel enclosure with an audit capacity of up to 11,000 events.



## FlashLock Fob

FlashLock products also open with an infrared FOB. Battery life is typically one year with memory that holds up to 11,000 open/lock events.



## Cyberkey Flash

CyberKey Flash smart keys have the ability to open CyberLock cylinders, FlashLock entry points using infrared technology, and other CyberLock RFID devices.



# CyberLock in Action



## Finding a “Metro-Proof” Lock System

In the Amsterdam Metro, a lock cylinder has a lot to endure; it must be resistant to burglary attempts, vandalism, manipulation, corrosion, and rough handling. To increase security and key control, Metro Amsterdam chose CyberLock. They were pleased with the unique features of the CyberLock system, and because the locks are installed without wiring, they were able to replace all cylinders, including padlocks, while staying within budget.

*“Within a month, all cylinders had been replaced, including those in doors with very uncommon profiles.”  
Frank - Security Manager*



## Ensuring a Safe School Environment

Over the years, Toppenish School District slowly lost control of their mechanical key system and many community members had access to the district’s facilities. With the mechanical lock and key system, they had no effective way to control and audit access to their facilities. Toppenish chose to install the CyberLock system because it was affordable and no wiring was needed for installation.

*“The management piece and knowing who has access has been very beneficial and I look forward to carrying just one CyberKey instead of 50 different mechanical keys.” Scott - IT Manager*



## Accounting for the Cash

The transit authority in the greater Cleveland area had a problem with misplaced keys to the fare boxes on their buses. A review of the collection reports indicated that a significant amount of money was not making it to the bank. Although there was no way to detect if these missing keys were being used to raid the fare boxes, their absence represented a glaring blind spot in loss prevention efforts. The CyberLock system was selected because it addressed their primary concerns of key control.

*“The bottom line is that the collected revenue ratio has increased and employee productivity has improved.”  
Scott - Transit Police Officer*



CyberLock, Inc. is the leading supplier of key-centric access control systems. It is part of the Videx family of companies with roots dating back to 2000 when the first CyberLock branded electronic locks and smart keys were introduced to the market.

Videx, Inc. has been designing and manufacturing innovative electronics since the company was founded in Corvallis, Oregon in 1979. Early products included display enhancement modules for Apple computers. In 1985, Videx entered the data collection industry with its first portable bar code scanner. Over the years, additional data collectors have been introduced, utilizing touch memory button and RFID tag technologies.

In 2013, CyberLock, Inc. was spun off as an independent company but maintains strong ties to Videx. The two companies continue to collaborate on future innovations.

## CyberLock, Inc.

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