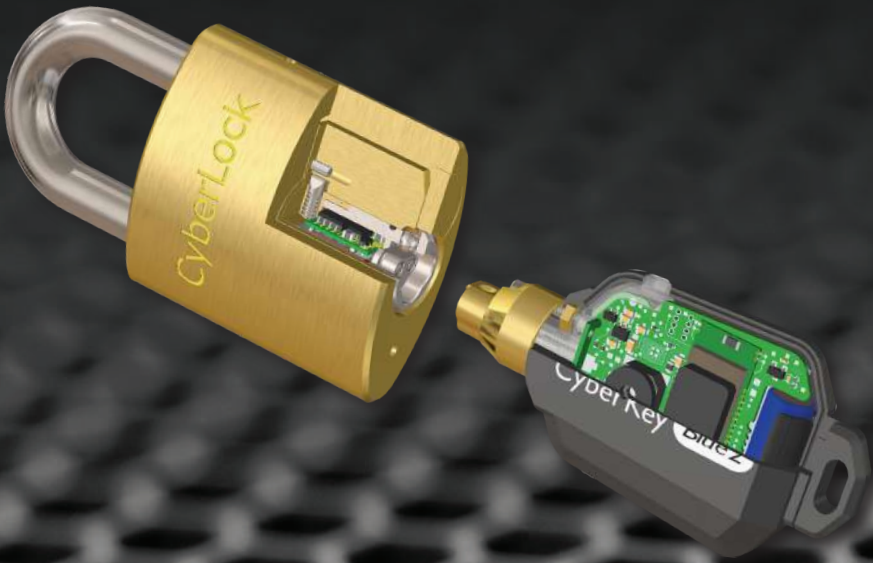




# Innovative Solutions for Real World Security





CyberLock is an innovative lock system that seamlessly converts existing mechanical locks into an access control system consisting of:

- CyberLock cylinders
- CyberKey smart keys
- Communication devices
- CyberAudit-Web management software

**CyberLock® Electromechanical Cylinders** – High security electronic lock cylinders provide beyond-the-door capabilities.

#### Design

Over 380 electromechanical cylinders have been designed for doors, cabinets, padlocks, containers, equipment, safes, and more.

- Cylinders retrofit into existing mechanical hardware.
- No wiring or battery required at the lock.
- Controlled access with audit trails provided even during power outages.
- The most recent 1100 access events are saved to cylinder memory.

#### Security

Unlike mechanical pin-based locks, CyberLock cylinders have a unique design that negates standard lock picking tools.

- Encrypted access codes bind cylinder to one system.
- Designed to prevent unauthorized duplication of the cylinder ID code.
- Multiple high-security options are available.

**CyberKey® Programmable Smart Keys** – Electronic keys store individual key holder access permissions.

#### Design

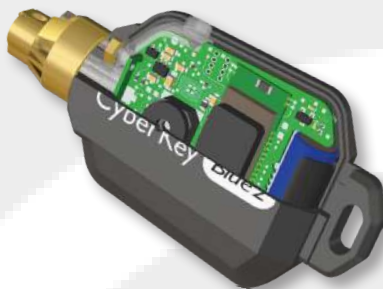
Efficiently packaged in highly durable fiberglass-reinforced cases.

- Power from key energizes cylinders.
- Rechargeable or replaceable battery options are available.
- Saves thousands of access events to key memory.

#### Security

Administrators may set expirations to minimize risk due to lost or stolen keys.

- Keys contain encrypted access codes that bind key to one system.
- Scheduling can range from standard to custom schedules.
- Designed to prevent unauthorized duplication of the key ID code.



**Communicators** – Serve as the interface between CyberLock hardware and CyberAudit-Web management software. Communication devices download the audit trail from the key and update it with new schedules, permissions, and system information.

## Options

Having a variety of communicator options available allows organizations to create the right balance between convenience and security.

- IR Encoders and USB Stations connect directly to an available USB port.
- CyberKey Authorizers connect over a network from remote locations without a computer.
- CyberKey Vaults charge and store unprogrammed keys until programmed and released to an authorized user.
- Smartphones enable remote employees to update keys in the field.



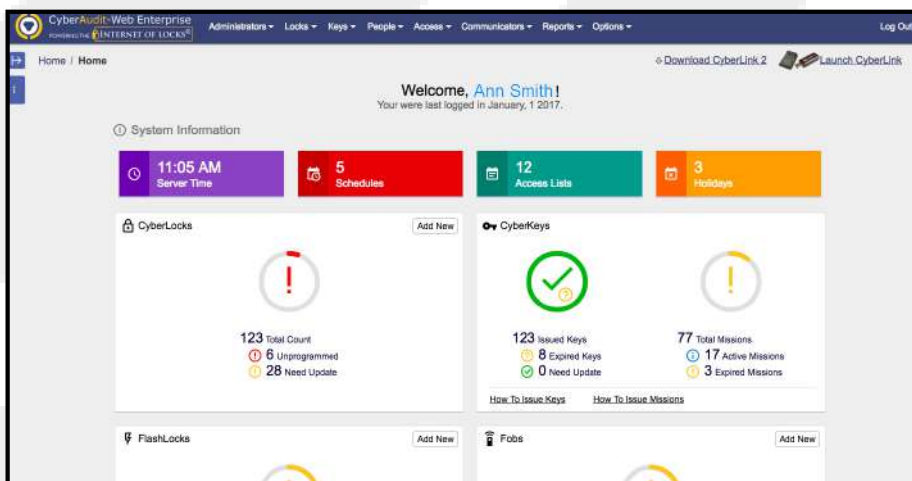
**CyberAudit®-Web Software** – This sleek and user friendly software manages both the CyberLock key-centric solution and the hardwired Flex System simultaneously. CyberAudit-Web software is available in two software versions depending on needs and capability.

## 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 in an easily manageable platform.

## Enterprise

Enterprise is a feature-rich management software that is ideal for large and/or geographically widespread installations. Enterprise is packaged on a server and offers all the features of Basic as well as advanced options like shared locks, programming temporary access for a specific user, and the ability to manage one cohesive system across multiple time zones. Additionally, Enterprise allows users to take advantage of all CyberLock has to offer, including CyberKey Blue 2, FlashLock and CyberKey Flash!



# CyberLock® Flex System®

The Flex System enhances the CyberLock product line by adding the capability to control a variety of access control and security elements using both Flex System modules as well as third party access devices:



Open a door



Activate a light



Sound an alarm



Activate a camera

## 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 has a network connection to the CyberAudit-Web management software.

## The Flex System Hub

The Flex System Hub connects with CyberAudit-Web 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 backup 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 CyberKeys for convenient remote employee access.
- The multi-function Keypoint module simultaneously activates electric door strikes and updates CyberKeys.

## 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.



# CyberLock® How it Works –A Simple Step by Step Process

CyberLock is a revolutionary electronic key-centric locking system designed to track and control access.

## Step 1

**Replace existing mechanical cylinders** with CyberLock cylinders. Each CyberLock is an electronic version of a standard mechanical lock cylinder. Installation is as simple as removing the original cylinder and replacing it with a CyberLock cylinder. Installation requires no wiring or batteries, making it quick and easy.



## Step 2

**Assign a CyberKey to a user.** Keys are programmed with personalized access privileges for each user. A standard key holds a list of locks the user may open, with a schedule of days and times when access is allowed. For instance, the key can be programmed to allow access from 8 a.m. to 6 p.m. on weekdays and 10 a.m. to 4 p.m. on Saturdays. It can also be programmed to expire on a specific date at a specific time for increased security.

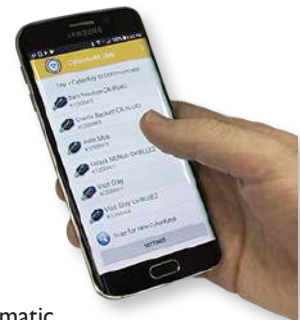


## Step 3

**Access locks.** When a CyberKey meets a CyberLock, the cylinder is energized and an information exchange occurs to determine if the key has access to that specific cylinder. The event and time is stored in both the lock and key. Lock cylinders and keys can record when an unauthorized attempt to open a lock occurred.

## Step 4

**Download audit trails** and update keys via Communicator devices. Expiring keys regularly ensures users frequently update their keys. When validating keys, the system downloads the audit trail and uploads new access privileges to the key. An expired key will not work until it is updated.



## Step 5

**View audit trail.** The CyberLock system is managed centrally through CyberAudit-Web software. Customized audit reports and automatic notifications on suspicious activities can be automatically generated via email.

Activity Audit					
5/9/2016 16:31:06					
Pacific time(US+Canada);Tijuana					
12 events					
Person	Key Name	Lock Name	Event	Date	
Sally Brown	Sally Brown (Blue 2 - Activate)	Diagnostics Room 792	10	Key expired or out of schedule	5/9/2016 16:17:20
Patrick Simmons	Patrick Simmons (K12009469)	Admin Bldg Front Door 1A4	10	Key expired or out of schedule	5/9/2016 16:15:16
Charlie Beckett	Charlie Beckett (Blue 2 - Activate)	Diagnostics Room 792	0	Authorized to open (b)	5/9/2016 16:13:10
Robert Newton	Robert Newton (K1200947E)	Learning Center Side Door 6C4	0	Authorized to open (b)	5/9/2016 16:11:30
Patrick Simmons	Patrick Simmons (K12009469)	Admin Bldg Front Door 1A4	0	Authorized to open (b)	5/9/2016 16:11:26
Charlie Beckett	Charlie Beckett (Blue 2 - Activate)	Research Center 2A3	0	Authorized to open (b)	5/9/2016 16:08:08
Patrick Simmons	Patrick Simmons (K12009469)	Research Center 2A3	0	Authorized to open (b)	5/9/2016 16:07:04
Robert Newton	Robert Newton (K1200947E)	Diagnostics Room 792	0	Authorized to open (b)	5/9/2016 16:06:56
Sally Brown	Sally Brown (Blue 2 - Activate)	Research Lab 521	0	Authorized to open (b)	5/9/2016 16:06:48

# CyberLock® in Action



## Securing Remote Sites

South Tahoe installed CyberLock to secure remote SCADA applications that controlled the operation of pumps and generators. Mission critical software is secured with CyberKey smart keys, rather than a password. CyberKey smart keys are programmed with scheduled access permissions, permitting access only during certain dates and times. Personnel are given an access schedule within their assigned CyberKey. During their shift, the CyberKey will open the SCADA access point, allowing the operator to start or stop pumps and generators. Outside of their shift, the CyberKey will deny access to the SCADA application, recording details of the unauthorized access attempt.



## Monitoring Subcontractor Activity

Georgia Department of Transportation turned to the CyberLock access control solution to assist in monitoring the activity of subcontractors. Prior to the implementation of CyberLock, GDOT used untraceable #2 mechanical keys. CyberLock gave GDOT the ability to issue a CyberKey to a subcontractor and schedule it to open specific locks for a specific amount of time. This solution gave GDOT peace of mind knowing that subcontractors could not have unlimited access to restricted areas and every access attempt could be monitored in both the lock and the key, providing an audit trail of every place a subcontractor goes.



## Managing Master Keys

With a mechanical key system in place, Bellevue Baptist Church found that an unnecessary number of master keys were created. CyberLock gives Bellevue the ability to schedule access permissions within a CyberKey, allowing people to access only doors they are authorized to open rather than granting unlimited access with a master key. Bellevue decided to implement CyberLock's Flex System, allowing them to use RFID access control as well as CyberLock's electronic lock and key system. The implementation of CyberLock significantly cut down on the number of keys in circulation and forced those who do hold keys to be accountable for them.

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