



Cencon® ATM Cash Vault Security System

Where there's cash, there's Cencon.





Cencon

The Challenge

The unique challenge of securing ATM cash vaults characteristically requires shared access among several companies. This typically consists of the parties responsible for replenishing cash and pulling deposits, as well as those providing 1st or 2nd line maintenance. Additionally, for ATMs located at the bank as opposed to off-premises, branch employees may require entry to the vault during certain hours. Some companies may still have their service personnel access the ATM vault by sharing the same lock combination. Bank employees, cash replenishers, technical service reps, repair personnel all know the one combination that opens an ATM safe typically holding tens of thousands of dollars in cash!

This type of archaic locking method with no accountability or access control equals serious temptation even for the most honest of employees.

The Solution

The Cencon ATM Cash Vault Security System from dormakaba was designed to combat insider theft from ATMs through the combined use of lock hardware, systems software, and Smart Keys. Cencon offers total access control and accountability with its One Time Combination (OTC) feature. The OTC is dispatched from the software and can only be used by that particular key for that lock's next opening, thus eliminating temptation. Unique software allows you to control and monitor tens, hundreds, even thousands of locks and users located anywhere in the world — from one central location. Cencon is the leading cost-effective solution for today's most serious security challenges.





Dead Bolt

Swing Bolt

Features and Benefits

Dual Token Access Control

A user needs both a combination and a Smart Key to access the lock.

One Time Combination

A One Time Combination (OTC) is dispatched each time access is required to open a Cencon lock in either of the OTC modes (FLM or Route mode).

Smart Key

Encrypted electronic keys are used as personal identifiers to open a lock (blue F, yellow R, green B), log in to the software (black D, S, SS), or as a device to activate or audit a lock (red SA).

Close Seal

The close seal acts as an electronic signature, stamping the date and time in the lock and key's memory and allowing the software to remotely know the lock status in the two OTC modes.

3 Alarm Compatible

Each Cencon comes standard with the capability to connect to an existing alarm system to (1) monitor the position of the lock bolt and (2) send a silent duress signal by adding 10 to the combination when the user needs to open the lock at gunpoint. The lock also offers the optional shunt alarm (3) to

deactivate the alarm when a correct combination and associated Smart Key are presented.

Audit Trail

The Cencon lock records all lock activity, a maximum of more than 1,000 events in some situations, and permits easy downloading of the information via a Smart Key for generating detailed audit reports.

Additional Security Options

Each group of lock or software access users can be configured with individual time window restrictions, including the dual-mode requirement to provide two-person integrity, or a software grouping method to prevent certain users from accessing certain locks.

Easy Retrofit

Cencon locks have the same footprint as conventional mechanical combination locks, making the retrofit process simple and inexpensive.

PowerStar® Technology

Use of an internal generator creates all the necessary power for the lock. No batteries or external wiring are required to operate the lock. Optional line power available if using ${\bf Cencon}~{\bf O_2}$

Cencon 0₂

Communicate remotely to the Cencon lock by adding hardware and software components, which when connected to the ATM PC, allow for streamlined operations.

User Friendly Software

Cencon software allows access control to all containers with no special wiring. The Windows® 7 or higher operating system or Microsoft® SQL Server interface, makes it simple to install and use on a stand-alone PC, a local area network (LAN) or wide area network (WAN).

Technical Support

Our Technical Support Staff is available 24 hours a day, seven days a week, to assist you in resolving hardware or software related issues.





Cencon Innovations: Shared Access

Cencon locks can operate individually or in any combination of these three modes — one for the First Line Maintenance personnel (FLM Mode), one for cash replenisher or armored service (Route Mode), and one for bank branch employees (Bank Mode). Each mode addresses the individual access needs for each category of user.

FLM MODE

Key + OTC (One Time Combination) Use Cencon 5 Software (CenTran optional)

ROUTE MODE

Key + OTC (One Time Combination) Use Cencon 5 Software (CenTran optional)



BANK MODE

Key + RAC (Repeatable Access Code) Use Cencon 5 Software





Designed for First Line Maintenance personnel, the FLM mode of the Cencon lock permits the dispatch center to give an OTC to a technician "on the fly." FLM personnel are issued a blue Smart Key, then call their dispatch center to request an OTC. Once used, this combination will not function again, thus insuring absolute access control. Once the Cencon unit is locked, a close seal code is displayed on the lock's LCD and, when entered into the dispatch center's computer, assures that the Cencon is locked and secure.



While permitting the same access control as FLM Mode, Route Mode additionally allows pre-defined routes for armored cash replenishers. Route personnel are each issued a yellow Smart Key. A route of locks may be assigned, permitting route personnel to access a series of locks without contacting their dispatch center between each opening. Route personnel can either call their dispatch center at the end of the shift to report the close seals, or the close seals can be read from the key by the Cencon software.



Bank Mode is designed for bank personnel who may need access to the Cencon lock but do not wish to operate through a dispatch center. Green Smart Keys and combinations are issued to bank personnel who may unlock the Cencon lock at any time within that user's access schedule. An internal audit trail tracks all activity of bank personnel just as it does for FLM and Route personnel. Kaba Mas Cencon 5 software permits bank administrators to manage Bank Mode on site. Bank users may be added or deleted and audit trails may be downloaded from the lock.

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Remote Management for Streamlined Operations

dormakaba's commitment to ATM cash security is over one million Cencon locks strong. As the market leader in combating insider theft from ATM's, we are dedicated to streamlining the security process, increasing efficiency while maintaining complete user accountability.

A large part of the ATM cash security investment comes from hardware costs and associated operational expenses. Financial organizations already own the locks and keys. Cencon O₂ was designed with this in mind. The system provides an optional upgrade to your new or existing locks and keys. From the field, your system can be upgraded with a simple firmware update and the addition of the new Interconnect Box and software components.

The Interconnect Box — Real Time Functionality

Dead Bolt

The Interconnect Box enables remote management of your Cencon dead bolt locks by connecting directly to the ATM PC via USB port. This allows your locks to be on your ATM network and opens the door to enhanced functionality. You can also upgrade your current field dead bolt locks by contacting dormakaba for a firmware update, available January 2014 (applies to Gen2 locks only). If connectivity is not desired, no additional components or interfaces are required.

Swing Bolt

Utilizing one of two USB versions of the swing bolt Interconnect Box enables remote management of the Cencon swing bolt locks by connecting directly to the ATM PC via USB port. Shunted and non-shunted versions are available. If connectivity is not desired, then versions with no USB connection are also offered.

Four Options for Swing Bolt (Must be Ordered with Swing Bolt Lock)

- Non-Shunt Interconnect Box, No USB Connection, Duress, Bolt Switch, Door Contact, 12" Cables
- Non-Shunt Interconnect Box, USB Connection, Duress, Bolt Switch, Door Contact, 12" Cables
- USB is for Connection to ATM PC for Cencon 02 or for Lock Programming
- Shunt Interconnect Box, No USB Connection, Duress, Alarm Shunt, Bolt Switch, Door Contact, 12" Cables
- Shunt Interconnect Box, USB Connection, Duress, Alarm Shunt, Bolt Switch, Door Contact, 12" Cables

Connecting Securely From Anywhere

Traditionally, CenTran software has given you the ability to automate certain Cencon features, such as code generation and distribution through third-party dispatching software. CenTran 5, with its Windows Service feature, supports remote operations. With the use of a third-party IVR system or CenTran Appliance, CenTran's Web Service allows field personnel to receive their One Time Combination via text or email, eliminating contact with dispatch personnel. The new Interconnect Box for USB connection to the ATM PC, used in conjunction with CenTran Web Service and ATM-side CenTran Agent software, allows you to remotely activate, audit, shelve, and manage Cencon Locks. By installing the new KeyBox Agent software, you can manage keys and users remotely too!

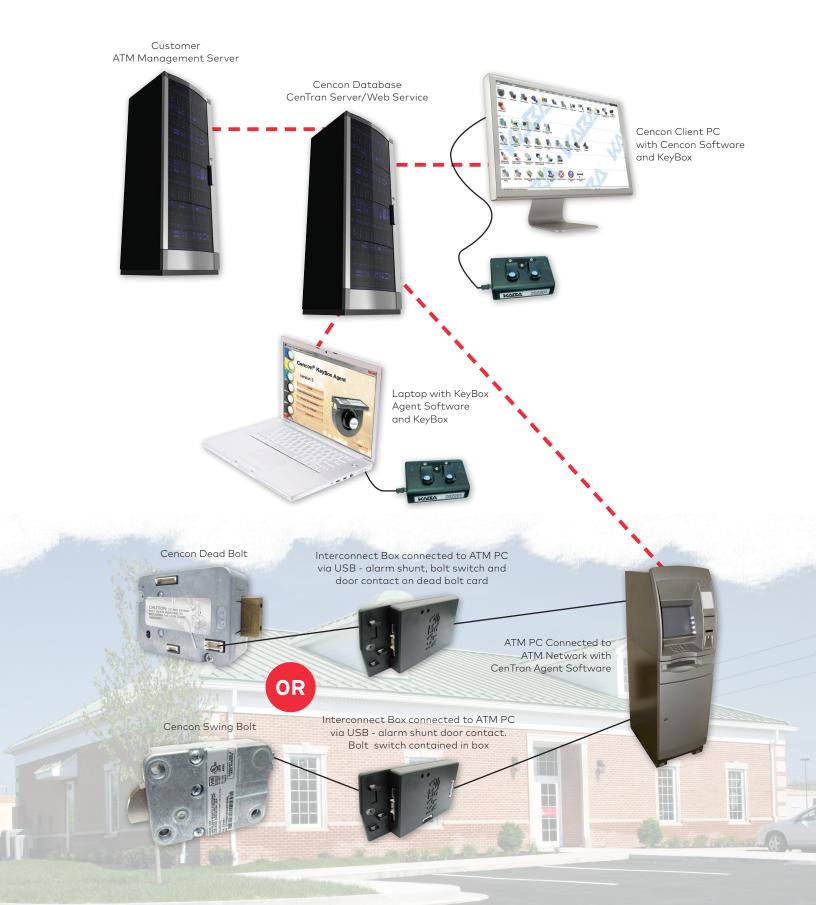
Streamline Operations and Reduce Costs

Today, when an ATM security breach occurs, retrieving the audit is a multi-step process that involves multiple people and additional expense. The option of Cencon O_2 allows a Security Director to remotely log into the lock and retrieve the audit in a matter of seconds.

Emergencies happen. When they do, Cencon O_2 allows technicians to create keys and codes from the field without heading to the office first.



Typical System Deployment



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Cencon Dead Bolt Specifications

Product Specifications

Access Control

User Authentication Combination + Smart Key
 Operating Modes Three Modes (FLM, Route and Bank)

Single or Dual User Access
 Factory (Shelved) Mode
 For any of the three modes
 50-25-50 or changeable by

After five incorrect attempts

Can achieve more than 1.000

With Cencon 5 software

One Time Combination
 User-Defined Combinations
 For FLM & Route Mode
 For Bank Mode users

User-Defined CombinationsWrong Combo PenaltyCentral Control

Audit TrailLock

events
- Key Up to 32 events
- Software Unlimited events

Key
 Software
 Time Windows by User
 Up to 32 events
 Unlimited events
 Optional

Time Windows by User Optional
 Time Delay 1-99 minutes, Bank mode

or

mode

Alarm Interface

Silent Duress Alarm
 Bolt Status
 Alarm Shunt
 Standard - combination +10
 Standard
 Optional

Agency Approvals / Certificates

U.L. - Type 1 (USA)

• U.L.C. - Type 1 (Canada)

• VdS - Class 2 (Germany)

• ECB•S/EN1300 - Class B (Europe)

• A2P / CNPP - Class B/E (France)

• SBSC - High Security (Sweden)

Environmental

Operating Temperature
Humidity
ESD
Endurance
Vibration
-23 °C to 65 °C @ 90% RH
Up to 95% RH
5KV to 25KV
25,000 operations
3-axis, 10-150 MHz 1G

acceleration, 3 oct/min (per IEC 68-2-2)

Shock
 Mechanical Attack
 Mechanical Attack
 Mechanical Attack
 Mechanical Attack

Electrical Specifications

Power
 PowerStar Technology

Self-generated with internal

generator.

• Alarm Interface Optional 9-pin din,

three NO/NC outputs

• Door Contact 4-pin connector to hook up

door contact switch, remote

disable

• Serial Communications Port 10-pin serial port allows for

remote operations directly connected to a Cencon PC (audit, activate, shelve, etc.)
Option to connect to ATM PC via Interconnect Box available

January 2014

• Smart Key 1K-bit to 64K-bit read-write

memory, some with timeclock, multi-stage encrypted, internal 10-year lithium battery, mounted in a stainless steel case

Mechanical Specifications

Input Unit

Keypad 12-button sealed with tactile

feedback

• Key Reader Accepts Cencon Smart Keys

• Display 3-character LCD (with

audible beep)

Lock Case

· Dead bolt die cast

• Bolt with three thread options (see price book)

• Bolt travel: 8.7 mm

Cencon KD (Keypad Down) Dial & Keypad

4.78" H x 3.95" W x 1.38" D Lock Case 2.40" H x 3.35" W x 1.22" D

Cencon KU (Keypad Up)
Dial & Keypad
3.79" H x 3.83" W x 1.38" D

Lock Case 2.40" H x 3.35" W x 1.22" D



Cencon Swing Bolt Lock Specifications

Product Specifications

Access Control

• User Authentication Combination + Smart Key · Operating Modes Three Modes (FLM, Route and Bank)

For any of the three modes · Single or Dual User Access • Factory (Shelved) Mode 50-25-50 or changeable by

 One Time Combination For FLM & Route Mode User-Defined Combinations For Bank Mode users • Wrong Combo Penalty After five incorrect

attempts

With Cencon 5 software

Audit Trail

· Central Control

 Lock Can achieve more than

1,000 events

 Key Up to 32 events Software Unlimited events

· Time Windows by User Optional

 Time Delay 1-99 minutes, Bank mode

 Number of Users Unlimited for FLM & Route

mode – 100 per lock for

Bank mode

Alarm Interface (Requires Interconnect Box)

· Silent Duress Alarm Combination +10

Bolt Status

· Alarm Shunt

Agency Approvals / Certificates

U.L. - Type 1 (USA)

• U.L.C. - Type 1 (Canada)

· VdS - Class 2 (Germany)

• ECB•S/EN1300 - Class B (Europe)

• A2P / CNPP - Class B/E (France)

• SBSC - High Security (Sweden)

Environmental

-23 °C to 65 °C @ 90 %RH · Operating Temperature

Up to 95% RH Humidity FSD 5KV to 25KV

 Endurance 25,000 operations Vibration 3-axis, 10-150 MHz, 1G acceleration, 3 oct/min (per

IEC 68-2-2)

 Shock 50 G (per IEC 68-2-27) Mechanical Attack 30 minutes (per ULC)

Electrical Specifications

 Power PowerStar Technology

> Self-generated with internal generator.

 Alarm Interface Optional 9-pin din, three NO/NC outputs (Requires

Interconnect Box)

· Door Contact 4-pin connector to hook up

> door contact switch, remote disable (Requires

Interconnect Box)

 USB Communications Port Located in Interconnect

> Box, USB port allows for remote operations directly connected to an ATM PC (Requires Interconnect Box) 1K-bit to 64K-bit read-write memory, some with

time-clock, multi-stage encrypted, internal 10-year lithium battery, mounted in

a stainless steel case

Mechanical Specifications

Input Unit

· Smart Key

 Keypad 12-button sealed with tactile feedback

Accepts Cencon Smart · Key Reader

 Display 3-character LCD (with

audible beep)

Lock Case

· Swing bolt die cast

· Bolt travel: Into lock case.

Keypad Dimensions

• 5.14" H X 3.83" W x 1.43" D

Lock Dimensions

• 2.40" H X 3.33" W x 0.91" D

Interconnect Box Dimensions

• 4.40" H X 2.40" W x 0.67" D



Entry



Swing Bolt

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Cencon 5 Software

Do More than Ever Before by Updating to Cencon 5 Software

dormakaba is constantly improving the Cencon software to meet the changing needs of your financial organization. By enhancing the functions available at the dispatch center, your company's processes will be streamlined, further increasing your return on investment for the Cencon System. As your business grows with more ATMs, you can continue to trust your partnership with us to keep up with new security and technology requirements the industry demands.

When a One Time Combination in FLM or Route mode is dispatched, Cencon software manages locks and user keys. A unique security code is encrypted to the USB KeyBox that accompanies the software. All actions are stored in the activity log's record of events and are tracked by the particular user who was logged into the software.

Cencon Software supports the following database engines:

- Microsoft SQL 2008 Express or higher, for stand-alone or LAN applications.
- Microsoft SQL 2008 Server, Standard or Enterprise Editions or higher for network applications. (Customer must obtain software/license separately.)

New Features/Improvements

- Updated database SQL operations to use a forward-only cursor to improve wide area network operations. This improves system performance and allows for compatibility with Windows 8. As a result, large reports in Cencon now load more quickly.
- · Added support for checking lock audit event dates to determine the correct user name to display. User keys are often renamed or deleted and reused. Thus, different user names are assigned to a user key at different points in time. The key serial number from the audit is compared against the active user table as well as the user history table to determine the correct user name to display.
- · Improved CenBank import in the DBSetupUtility, allowing for easier transition from legacy CenBank software to Cencon 5.
- · Added a lock serial communications operation to cancel a dispatch and advance a mode of network connected lock to the next combination. This operation is used to cancel the dispatch mode of a Cencon Gen 2 or higher lock that is connected to a network IP address. It is executed by checking the status of the lock to determine if the dispatched user has reached the lock and opened it. If the user has opened and closed the lock, then the operation closes out the dispatch and returns that the user already opened the lock. If the user has not opened the lock, then the combination for that lock mode is advanced to the next combination at the lock, and the dispatch is force closed in the Cencon database.
- · Improved threading of Cencon reports to allow simultaneous report operations.

- · Improved database query speed tuning for sets of strings, increasing performance of retrieving large lists of strings from the database.
- Improved performance of database checks at Cencon startup by making them operate in parallel (multithreaded). This hides network latencies for the individual database gueries by checking each table. Each database table check operates in its own thread.



Cencon 5 Software Specifications

• Qty. Locks Controlled Unlimited w/ enough PC space Qty. Users Managed Unlimited w/ enough PC space • Qty. of Audit Events Unlimited when properly archived

· Multi-Level Access Yes Audit Reports Yes • Lock Status Reports Yes · User Reports Yes

· Operating System Microsoft Windows 7 (32/64 bit)

or higher.

• Min. PC Requirements 4 GB RAM; 50 MB available hard

disk space initially (hard disk space requirement will grow as database

files grow)

Available USB port for USB

KeyBox

 An installed Database Management System (DBMS) - Microsoft SQL Server 2008 or higher (including the SQL Server Express Editions). The PC requirements listed above do not include the requirements of a DBMS. If the DBMS is run on the same computer as Cencon, then the total requirements will be the requirements of Cencon plus those of the DBMS.



Software Options for Cencon Locks

CenTran 5 Software

With the release of CenTran 5, the program is even more powerful and integrated with Cencon. It performs all the functions as the previous versions of CenTran, plus so much more. In CenTran 5, Cencon locks can be partnered with the new CenTran Agent Software, Cencon USB Interconnect Box, and Cencon KeyBox Agent Software to enable real-time functionality, resulting in reduced operational costs and improved management of your Cencon ATM Cash Vault Security System!

With the introduction of CenTran 5, several landmark changes have occurred, the most important of which is that CenTran now runs in the background as a Windows service! This allows for improved server stability and database integrity. If a server is reset, then CenTran will automatically restart without manual intervention. The networked CenTran Agent Software and CenTran Web Service enable real-time monitoring of access to the lock. It also takes care of close seal reporting for closing out locks automatically.

With CenTran 5, the web service implementation for CenTran has been added, matching the XML file transactions. This web service implementation supports HTTPS operations for REST and SOAP protocol web service calls. It also supports local named pipe communications. The web service authenticates users based off of either user name/ password or Windows authentication.

The setup of the CenTran web service is done primarily by editing the CenTran configuration file. The configuration file defines the web service endpoints and settings to be used by CenTran. Setup of self-signed security certificates for CenTran is supported by the CenTran Configuration Manager; however, use of a certificate authority server is recommended.

CenTran Configuration Manager

The CenTran Configuration Manager is installed with the CenTran service to facilitate installing, starting, stopping, and uninstalling the CenTran service. It is used to assist you in managing the CenTran service, where CenTran no longer has a direct user interface.

CenTran Web Client Template

The CenTran Web Client Template adds HTML-based client interface for CenTran web service operations. This is used as a light weight web browser replacement for Cencon. The intent is to facilitate your integration of CenTran into your business systems through a web browser interface.

CenTran Agent

The CenTran Agent service software is used at ATM console computers running on Windows 7 to monitor the status of the connected Cencon lock, as well as to handle requests to CenTran to update the status of the connected Cencon lock.

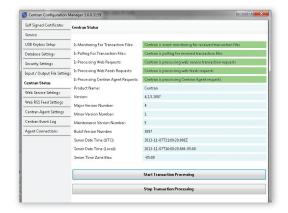
Cencon KeyBox Agent

The Cencon KeyBox Agent service software is used at client computers with an attached Cencon KeyBox, allowing web-based interfaces to use CenTran when initializing keys remotely from a web browser.

Available Remote Lock Operations

- · Query Lock Status
- · Query Lock Audits
- Evaluate Lock Event
- · Activate Lock
- Add Users To Bank Mode Lock
- Delete Users From Bank Mode Lock
- · Shelve Lock
- · Set Lock Time
- Set Lock Single/Dual Access

- Set Lock Open Delay Window
- Resynchronize Lock Dispatching
- Resynchronize Bank Mode Lock Users
- Cancel Dispatch and Advance To Next Lock Mode Combination
- · Reboot Lock



CenTran 5 Configuration Manager

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