Cencon ATM Cash Vault
Security System

Keeping the World's Money Moving

The Challenge

The unique challenge of securing ATM cash vaults characteristically requires shared access among several companies. This typically consists of those responsible for the delivery of 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 also require entry to the vault during certain hours. Some companies still have their service personnel access the ATM vault by sharing the same lock combination. Bank employees, cash replenishers, technical service reps, repair personnel – who 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 Kaba Mas 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 user's 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 a revolutionary and cost-effective solution to today's most serious security challenges.

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 on 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 1000 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, 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 has 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.

User Friendly Software
Cencon software allows you to control access to all of your containers with no special wiring. The Windows Vista, XP and 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
The Kaba Mas Technical Support Staff is available 24 hours a day, seven days a week, to assist you in resolving hardware or software related issues.

Education
We offer practical and technical training on the Cencon System. Classes are available at the Kaba Mas education facility or arrangements can be made for off-site training.

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KABA ®

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 4 Software
(CenTran optional)

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 each issued a blue Smart Key and 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.

ROUTE MODE
Key + OTC
(One-Time Combination)
Use Cencon 4 Software
(CenTran optional)

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
Key + RAC
(Repeatable Access Code)
Use Cencon 4 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 4 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.

PowerStar™ Technology
Use of an internal generator creates all the necessary power. No batteries or external wiring required to operate the lock.

POWERSTAR

Cencon Specifications

PRODUCT SPECIFICATIONS

Access Control
- User Authentication.................. Combination + Smart Key
- Operating Modes .... 3 Modes (FLM, Route & Bank)
- Single or Dual User Access ...... For any of the 3 modes
- Factory (Shelved) Mode............ 50-25-50 or changeable by user
- One Time Combination .... For FLM & Route Mode
- User Defined Combinations..... For Bank Mode users
- Wrong Combo Penalty .... After 5 incorrect attempts
- Central Control .... With Cencon 4 software
- Audit Trail
  - Lock .... Can achieve more than 1000 events
  - Key .... Up to 32 events
  - Software .... Unlimited events
- Time Windows by User............. Optional
- Time Delay................................... 1-99 minutes, Bank mode only
- Number of Users........................ Unlimited for FLM & Route mode. 100 per lock for Bank mode

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

Agency Approvals / Certificates
- U.L. - Type 1 (USA)
- U.L.C. - Type 1 (Canada)
- VdS - Class 2 (Germany)
- ECB•S/EN1300 - Level B (Europe)
- A2P / CNPP - Class B/E (France)
- DNV - High Security (Sweden)

Environmental
- Operating Temperature .... -23°C to 65°C @ 90%RH
- Humidity....................................... Up to 95% RH
- ESD.. 5KV to 25KV
- Endurance.................................... 25,000 operations
- Vibration .... 3-axis, 10-150MHz, 1G acceleration, 3 oct/min (per IEC 68-2-2)
- Shock .... 50 G (per IEC 68-2-27)
- Mechanical Attack .... 30 minutes (per ULC)

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 w/ 3 thread options (see price book)
- Bolt travel: 8.7 mm

ELECTRICAL SPECIFICATIONS
- Power.. Self-generated with internal generator
- Alarm Interface .... Optional 9-pin din, 3 NO/NC outputs
- Smart Key™................................. 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.

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 4 Software

Do More than Ever Before by Updating to Cencon Software

Kaba Mas is constantly improving the Cencon software so that the changing needs of your ATM service company are met. 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 Kaba to keep up with new security and technology requirements the industry dictates.

Customers dispatching One-Time-Combinations™ in FLM or Route mode will use the Cencon software to manage their locks and user keys. Each Cencon customer has a unique security code encrypted to the USB Key Box that accompanies this 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 2005 or 2008 Express, for stand-alone or LAN applications.
- Microsoft® SQL 2005 or 2008 Server, Standard or Enterprise Editions, for network applications. (Customer must obtain software/license separately.)

New Features of Cencon
- All new graphic user interface (GUI) improves process flow and usability.
- CenBank import and Bank mode support, allowing Bank mode use via one SQL database.
    - Allows simultaneous activation or shelving of Bank mode and F/R modes with one SA key.
    - New Bank key report shows all locks to which a particular key has access.
- Option to log-in with Windows User Authentication.
- Create unique Role types for Log-on users, authorizing access for only the functions that user needs.
- Lock Operations Report designed to be faster to load and display combinations and audit counts.
- Update of Remote Activation/Lock Transfer (.TFR) files to XML format to include more data.
- User ID can be renamed, deleted or restored from History Report without key present in reader.
- Mapping support of locks, customers or routes by using Microsoft MapPoint or MapQuest (Additional licensing may be required).
- Close calls when lock bolts need to be left retracted

before shipping the ATM by reading F or R key's open record.
- Lock Collections: designate and save a group of locks to have a simultaneous dispatch of them.
- Activity Report shows what specific information changed from (history) and to (current).
- Recreate a duplicate of a lost activation SA key, and read status of activation or shelving SA keys.
- Close seal override option for a manager to use in special cases (after back-up restored, etc).
- Force delete of open destroyed locks, and recover accidently deleted locks.
- Restrict route mode keys to specified maximum number of simultaneous dispatches.
- Allow FLM mode keys simultaneous dispatches of multiple locks.
- Set auto-disable dates on a user or max number of total dispatches.
- Edit data for multiple users simultaneously.
- Browse to select R key when dispatching a route.
- Archive routes from the Route Report and restore.
- Search for a lock serial number added to more reports.
- Create User-defined column titles for 4 User-Defined fields & Description fields.
- Easy refresh of reports via hot buttons.
- F/R mode Open Call time limit alarms.

CENCON 4 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 XP 32 bit Professional (Service Pack 3), Vista 32/64 bit (Service Pack 2) or Windows 7 (32/64 bit).
- Min. PC Requirements .... 2 GB RAM; 50 MB available hard disk space initially (hard disk space requirement will grow as database files grow); available USP port for USB Key Box.
- An installed Database Management System (DBMS) - Microsoft SQL Server 2005 or 2008 (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, the total requirements will be the requirements of Cencon plus those of the DBMS.

Software Options for Cencon Locks

CenTran 4 Software

If a user prefers not to use live operators at the PC for dispatching and closing calls, Kaba Mas offers customers the ability to use their own 3rd party dispatching software with our CenTran software to interact with their existing Cencon software files. Field technicians call into an automated phone system (i.e., IVR) or access a secure web application, and, after verifying credentials, generate their own needed opening codes or enter close seals to meet practically all their daily needs. With CenTran, your dispatch center staff need only operate one system in order to dispatch service calls.

CENTRAN 4 SOFTWARE SPECIFICATIONS
- Activity Log .... XML file format for transactions (includes support for new features, reports and longer fields).
- Auto-retry for restoring database connection and for restoring updates with transaction directory.
- Operating System .... Microsoft Windows XP 32 bit Professional (Service Pack 3), Vista 32/64 bit (Service Pack 2) or Windows 7 (32/64 bit).
- Min. PC Requirements ...... 1 GB RAM; 50 MB available hard disk space for CenTran files only, available USB port for the Cencon USB Key Box or USB card, server version.

Contact factory for special software considerations.

Bank Mode

Cencon 4 software permits you to utilize the Bank mode of the Cencon lock. The bank branch manager or contracted service vendor uses the 2-port key reader to control log-in access and manage or audit user keys and locks. A Windows-based PC or laptop is required. Once the locks and keys are programmed, the Bank keys can continue to open and close the locks without having to interface daily with the Cencon software for the Bank Mode.

Key Maintenance Utility (KMU) Software

The KMU program helps maintain the accuracy of the real-time clock built into certain Smart Keys. Regularly updating the keys minimizes the time drift common to these lithium-battery powered devices and allows assurance of key time accuracy when writing records to the Cencon audit trail or when using the Time Windows feature.

This utility is designed for the regional field supervisor who is required to periodically check and reset the time in certain Lock User keys. The KMU software maintains its own audit trail, detailing all activity of the log-on user's orange key.

Specifications and descriptions subject to change without notice. See www.kaba-mas.com/cencon4 for latest Minimum Requirements. Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

To find out more about why the Cencon System has become the most preferred method of securing ATM cash vaults across the globe, please visit www.Kaba-Mas.com, or feel free to ask your local ATM service provider.

KABA®

The Kaba Safe Lock Division relies on product innovation to meet our markets' ever-changing needs for loss prevention and access control solutions.

The Kaba and LA GARD brands are synonymous worldwide with security, control and accountability.

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