KABA MAS®

Cencon Generation II Lock
Cencon/CenTran 4 Software

KABA MAS®

Dear Valued Customer:

Kaba Mas is committed to continuously improving existing products and driving new product development. In response to evolving customer requirements, the overall global Cencon experience as well as our own internal testing, we are introducing enhancements to the current Cencon hardware and software platforms that will enable us to continue to develop together and meet future challenges.

Generation II Lock

The Gen2 lock is an upgrade to an existing product and has been designed to be fully downward compatible by simply replacing the lock back cover. There will be a transition period during which both Gen1 and Gen2 locks will exist within a user's system. All efforts have been made to minimize any possible operational disruption during the transition period, and by April 2010, only Gen2 Cencon locks will be produced. To take advantage of the full feature set of the Gen2 lock, you will want to ensure that the lock is activated with the latest Cencon software and PC hardware.

Cencon 4 Software

Cencon software version 4 is scheduled for general release in the fourth quarter of 2009. Utilizing Cencon 4 will immediately result in increased security as well as daily dispatching and management efficiencies. In addition to completely updated software, Kaba Mas is introducing a new USB Key Box, which will serve as the long term replacement for the current PCI security card. The USB Key Box supports both metal and plastic fob keys and combines the functionality of a key reader with the unique code generating of the PCI card.

Our pledge is that Cencon remains the most trusted ATM cash vault locking system in the world.

Sincerely,
Kaba Mas LLC

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Figure 1

What is the Cencon Generation II (Gen2) lock?
"Generation II" (Gen2) refers to the improved Cencon lock firmware packaged in an updated back cover with modern electronic components. The modifications were made based on user-requested features and for supporting future market changes. Kaba Mas will begin introducing Gen2 in the fourth quarter of 2009, and by April of 2010, all Cencon locks will be shipped as Gen2.

Is the new Gen2 back cover compatible with the Cencon locks in the field?
Gen2 covers can directly replace any Gen1 back cover, allowing use of the same equipment. A "Gen1" lock refers to all Cencon S2000 solenoid-based locks manufactured from 1998 until the present. These locks are easily identifiable by their gold-colored (or, in more recent years, silver) lock case. The Gen2 back cover is not compatible with the black-colored, stepper motor Cencon locks, which were produced before 1998 and can be considered "Gen0."

How do I tell the difference between an original (Gen1) and a new Gen2 lock?
Back cover: the Gen1 version contained two connectors; one for the change key (2 port) and one for the alarm output (9 pins). The Gen2 back cover adds two additional connectors: a 4-pin input for using remote disable or door contact sensors and a 10-pin connector for future expansion capability. (Figure 1.)

Electronic card: Gen2 has a coin-cell battery and a black battery retainer for running the on-board clock, and the serial number sticker showing 3 sets of 3 numbers. (Figure 2.)

Figure 3

Lock front: a dial label will be used to identify the version of the back cover installed. The Gen1 label is black with the "Kaba" logo in silver. The Gen2 label is silver with "Kaba" and "II" in black. (Figure 3.)

Several differences identify the type of back cover used by prompts from the LCD. Examples include during power-up (displays "G 2" briefly) when # 2 is pressed to see the lock serial number (sets of 3 digits now rather than 2), and when pressing several other new keypad commands (# 7 X.)

How many digits will the Gen2 lock's serial number contain?
The Gen1 lock was limited to a 6-digit serial number, displaying 3 sets of 2 digits (Example: 12-34-56). The limiting factor meant that Gen1 locks could not have unique serial numbers of one million or more. The Gen2 lock has the capacity for a 9-digit total serial number. For approximately the first two years of the Gen2 release, the first three digits of the full 9-digit serial number will be 000, which will cause the lock to only display the last 6 digits. (Example: 023-456.) When typing this Gen2 lock serial number into the Cencon software, only the 6 digits that are displayed need to be entered, allowing activation of Gen2 locks in software versions prior to 4. After one million unique serial numbers have been exhausted in the manufacturing process, the Gen2 lock will begin displaying the full 9-digit lock serial number on the LCD. (Example: 001-123-456.)

Will Gen1 and Gen2 locks function the same?
Those users who are familiar with the operation of the Gen1 lock will notice few differences if operating the Gen2 lock as they did the Gen1 lock. However, many product enhancements exist with the Gen2 lock that are dependent on the type of PC equipment used to activate the lock. A few highlights are as follows:

A: Compatibility Mode occurs when the Gen2 lock's mode is activated from Cencon software using a PCI card (FLM or Route) or from the CenBank software (Bank Mode).

Gen2 Features Available in Compatibility Mode

- Clock is in the lock, providing more accurate audits and eliminating key time drift.
- Time-stamped audits of factory mode activity.
- "bEC", indicates upon power-up that clock battery is low or dead (after up to 9 years).
- "cEC", notifies user when the clock has been reset to 1/1/2000 after battery was removed/replaced.
- Clearing LockOut is no longer based on key time (any valid key + combo can clear the LCO after the penalty period is complete).
- Connector for Door Contact Switch and Remote Disable function input to the lock.
- Pressing Keypad Prompts (#7x) displays helpful information to the field user: which modes are active; current GMT date/time; last open record and activation record by mode; key serial number & type; etc.
- Faster Downloading of Audit records to SA key.
- More audit memory storage, new audit types, and clearer audit descriptions.

- Back Cover can be returned to Kaba Mas for firmware upgrades in the future.
- Displays "IPI" only once to confirm the close by a mode that was just shelved or factory reset.
- Improved ESD-resistance to the memory.

B: Full Gen2 Mode - to take advantage of its full range of features, the Gen2 lock would need to be originally activated from the Cencon 4 software using a new USB Key Box. Alternatively, if Gen2 locks were originally activated in compatibility mode and then later imported into Cencon 4 which used the USB Box, an "update activation key" could be programmed and taken to the lock in order to reinitialize it into full Gen2 Mode.

Gen2 Features Available in full Gen2 Mode (all of section A, plus the following)

- Algorithm Encryption method made more secure.
- Lock Synchronization Key to re-sync locks with database in rare cases of audit count mismatch.
- Allows usage of future DS1963 keys for F, R, or B mode.
- Starts using a 4-digit Close Seal, improving security by encoding duress and clock/battery warning back to the dispatcher.
- Allows use of the Serial Interface Connection, to do remote operations or operations directly connected to Cencon PC (audit, activate, shelve, etc.).
- Allows a Lock Serial Number greater than 1 million to be activated & dispatched.
- Additional information from #7: local time by mode; which customer and USB key box activated each mode; etc.
- Bank Mode Features:
  - Expanded bank mode User Table; from 32 to 100 user IDs available.
  - Bank mode allows User Table download to determine current active users.
  - Time delay range will be expanded from 5-99 minutes to 1-99 minutes.
  - Ability to set the default Bank mode combinations on the key during activation in the software.

Will current and future Dallas iButton keys operate Gen1 & Gen2 locks?

Any current Cencon F/R/B Key being used today will continue to work on Gen2 locks, as they do now for existing Gen1 locks. Today's model of key that includes a clock will not be offered by Dallas Maxim after 2011, though based on current usage, Kaba Mas will have inventory of these keys through 2015.

A new model of the iButton key that has no clock in it (DS1963) will be optionally offered by Kaba Mas on request in late 2010.

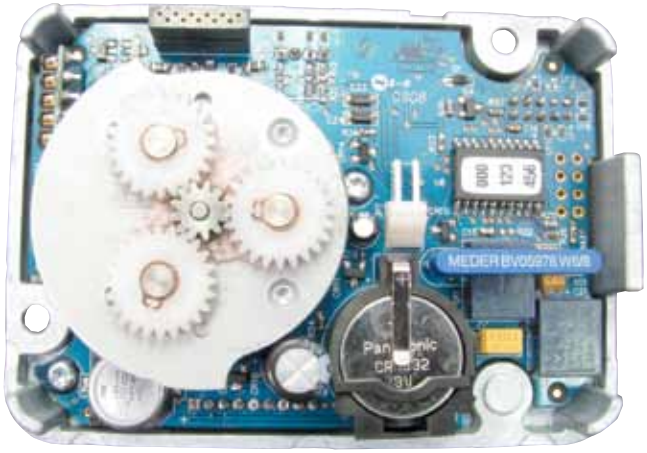


Figure 2

This new key type will only work on Gen2 locks that are in use with the Cencon 4 or higher software and the new USB Key Box. This DS1963 key will not work on Gen1 locks.

Which Cencon software versions are compatible with Gen2 locks?

The Gen2 lock can be activated and used in any currently supported Cencon version (2.0, 3.0, 3.1, or 4) or any version of CenBank software. Activating the Gen2 lock using Cencon 4 with a new USB Key Box allows the lock to utilize its capacity of new features, as the list above shows. If the Gen2 lock gets activated in "compatibility mode" by not being programmed from a USB Key Box, then to later take advantage of the full features, an "update activation" SA key must be programmed by the software and sent to a lock during a routine visit. The 4.0 software Lock Report tracks the version (Gen1, Gen2 Compatibility Mode, or Gen2 Full Mode) of each lock in a system to facilitate dispatching and transition planning.

Kaba Mas declared July 2007 as end of support life for Cencon software versions 1.5.2 and below, due to the computer industry's inability to continue supporting ISA cards and down-level operating systems. Similarly, Kaba Mas is declaring December 2010 to be the End of Support Life date for all CenBank software and any Cencon software version not utilizing at least one USB Key Box on a network (such as 2.0 or 3.x.) Several reasons exist for this requirement, including that the PCI slots which the current Cencon PCI cards require are no longer a standard offering on new PCs. Furthermore, based on current production rates, sometime likely in 2011 Kaba Mas will begin shipping Gen2 locks with serial numbers that start into the range above 1 million (example: 001-123-456). Anyone on a down-level system at that time will be unable to activate such locks.

Is the Gen2 lock as secure as the Gen1?

Yes. In fact, many more security features have been incorporated into the Gen2 lock. Similarly, customers will experience additional levels of security when using the USB Key Box and the new version of Dallas keys, as a precautionary way of ensuring that the Cencon product utilizes all possible modern encryption technologies.

Highlights of Cencon & CenTran 4.0

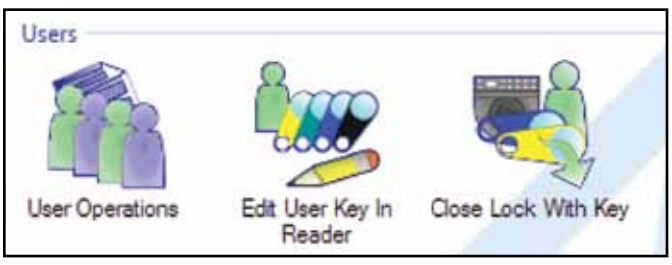
- Flexible, programmable Authorization settings. New Auth Report allows individual Roles for S/W users.
- Option to use Windows logon ID as Cencon/CenTran logon user, instead of requiring black SS, S, D keys.
- International Language Support.
- References to the Cencon Sub-locking System and the down-level .RTE file route method are removed.
- The target operating systems are Windows XP (SP2/SP3), Windows Vista (32bit and 64bit) and Windows 7 (32bit and 64bit).
- The target database management system is Microsoft SQL Server 2005 through SQL Server 2008.
- Supports both the current PCI card and the new USB Key Box device; mixed environment is OK.
- The USB Key Box combines functions of key reader + the unique code-generating of a PCI card.
  - Requires a unique orange installation key which should be locked away for security.
  - Supports metal or plastic-fob keys; both types slide into reader easily and hold securely.
  - Optional cable lock is available to secure the device to a desk.
  - Order USB box to suit particular mode needs. Add mode with new install key.

Cencon 4 Features

- All new graphic user interface (GUI) improves process flow and usability.
- CenBank import and Bank mode support, allowing Bank mode use via the same SQL database.
  - Allows simultaneous activation or shelving of Bank mode and F/R modes with 1 SA key.
  - New Bank key report shows all locks to which a particular key has access.
- 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 in factory setting by reading F or R key's open record.
- Lock Collections: designate and save a group of locks to have a simultaneous re-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 accidentally deleted locks.
- Restrict route mode keys to specified maximum number of simultaneous dispatches.
- Allow FLM mode keys simultaneous dispatches of multiple locks.
- Set auto-delete 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 lock serial number added to more reports.
- More descriptive HTML user key reports.
- User-defined column titles for 4 User-Defined fields.
- Easy refresh of reports via hot button.
- F/R mode Open Call time limit Alarms.
- Close any call by reading F or R key.

CenTran 4 Features

- 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.



Cencon & CenTran 4.0 Licensing Overview

Kaba Mas offers flexible, cost-effective options for licensing the Cencon family of software products, including Cencon 4 and CenTran 4.

One server license is required for each Cencon server software installation. For multi-server environments, an Enterprise Site License is available. In addition, a dispatch pack is required for each user or device that accesses the server software. This replaces the PCI card used in down-level versions of Cencon software.

You may also choose to purchase Software Maintenance & Support. This comprehensive offering ensures that you get the most out of your software investment. This annual program covers technical and product support while entitling you to regular product updates and upgrades. You may register for Maintenance & Support at the time of purchase and begin using these benefits immediately, for the term of your agreement.

Step One Select Quantity	Step Two Select Modes	Step Three Select Quantity	Step Four Select Quantity	Step Five (Optional)	Step Six
Cencon 4 Server License:	**Bank Mode License:**	**Install Key:**	**Dispatch Pack:**	**CenTran:**	**Training:** Per Day Training
Includes a single Cencon 4 Server License for database installation on a **single** SQL server.	Includes a Bank Mode Software License and 2 green B keys for use on a specific Cencon Server.	Includes one customer-specific Install Key programmed for the mode(s) ordered.	One USB Security Key Box (required for system security and key programming.) Includes one Dispatcher Software License.	Includes a license to install CenTran (for connectivity to IVR, etc.) on a specific Cencon Server.	Training is recommended in most situations. Please discuss with Kaba Sales Agent.
	First Line Maint (FLM) License:				
	Includes an FLM Mode Software License and 2 blue F keys for use on a specific Cencon Server.				
	Route Mode License:				
	Includes a Route Mode Software License and 2 yellow R keys for use on a specific Cencon Server.				

This chart represents options available for standard software installation. For multi-server, multi-mode environments, an Enterprise Site License is available. Software Maintenance & Support will be based on the total of licensed items purchased (including software and PC hardware).

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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