

NFC Lock User Manual (Version 2.0)

1. Introduction:

Remote Authorized Code sent by email, SMS, Skype, etc. The Authorized Code include: times of entries, valid period, etc. The sent Authorized Code can be cancelled. This lock can be used in Home, Hotel, Cabinet, Locker, etc.

2. Portable Device for Management



The portable device installed with Janitor, and used for manage the lock.

Generate authorized code and send it to the guests.

Run the Janitor, there are 4 optional Menu at the bottom of the interface, Tools, Config, KeyGen, and Advanced.

2.1. Lock ID definition

Lock ID is the room number or something else, and must be 4-digital number.

1) If the Lock ID is set to 0000, any Valid Authorized Code can unlock it. It works as Gate Lock.

2) If the Lock ID is set to XX00 (for example: 1200), any valid Authorized Code such as XX22 (for example: 1222) can unlock it. It works like a floor door of a building.

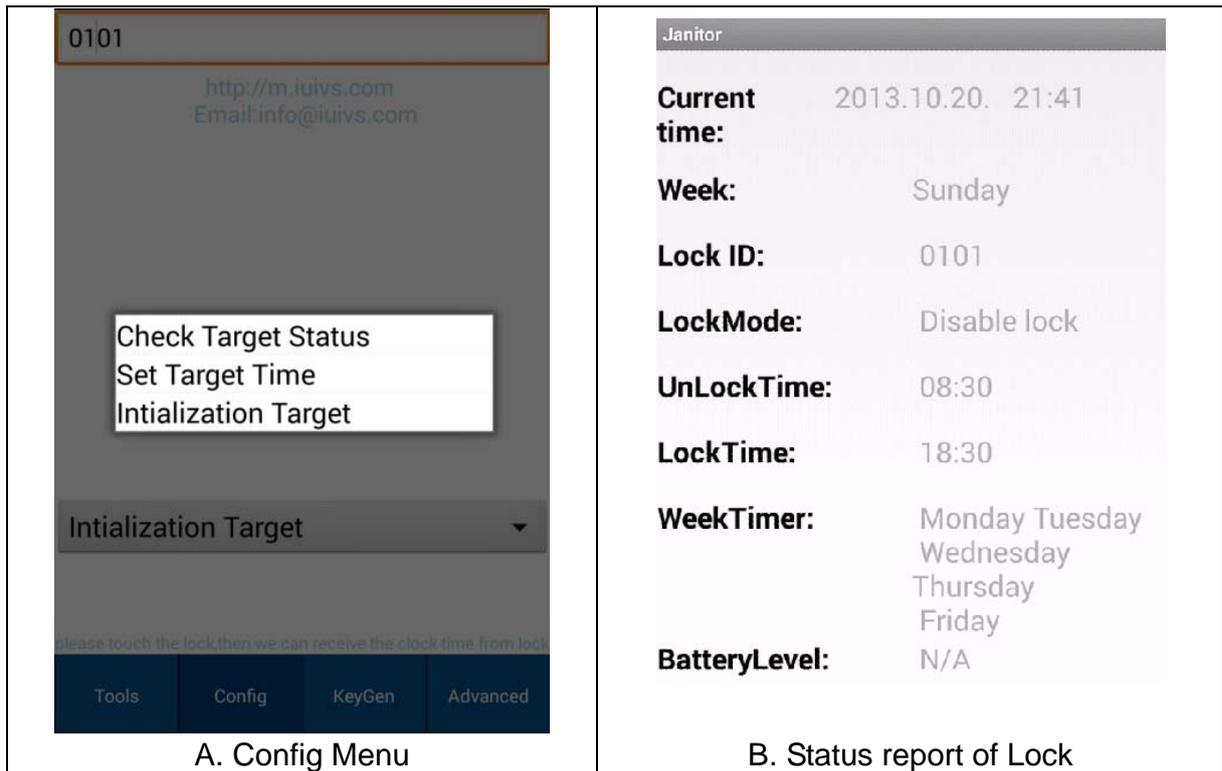
2.2. Config

2.2.1. Initialize Target

Set the Lock ID, clock and Master Card for the lock. Each lock must be initialized before it is used.

First, read a NFC tag (for example, NTAG203), and then input a LockID at the top of screen. This NFC tag will be the Master Card of the system.

Second, approach to the portable device to the sensing area of door lock, the screen shrink, means there is communication between phone and lock, then touch the screen to confirm. Repeat this for next lock.



2.2.2. Check Target Status

Touch the lock, send Check command to it. It will be Beep 2 times, and then the phone will receive data after 2 second. The data include Clock, Lock ID, and status of the Lock.

2.2.3. Set Target time

Used for synchronizing the clock between portable device and lock.

2.2.4. Set a Management Device for Staff

This step is can be skip. A staff device can be added at any time later.

- 1) Install a Janitor on a NFC portable device.
- 2) At "Config -> Initialize Target", read the Master card.

2.3. KeyGen

This function is used to generate Authorized Code, and then send it to customer. The code was encrypted by AES.

2.3.1. Generate an Anthorized Code

- 1) Input the Lock ID
- 2) Start Date andTime
- 3) End Date andTime
- 4) Entry: Single, Two, and Multiple

A/ The valid start and end time of single and two entries cannot over 24 hours.

B/ Multiple entries is unlimited in valid start and end time.

5) Valid time period

The default set is from 00:00 to 00:00, that is valid for whole day. If set to 8:30 to 17:30, that mean the code only valid between 8:30AM and 5:30PM.

6) Cancel sent code

If selected and generated a code, once the user uses the code to unlock, all previous code will be void.

2.3.2. Send the Authorized Code

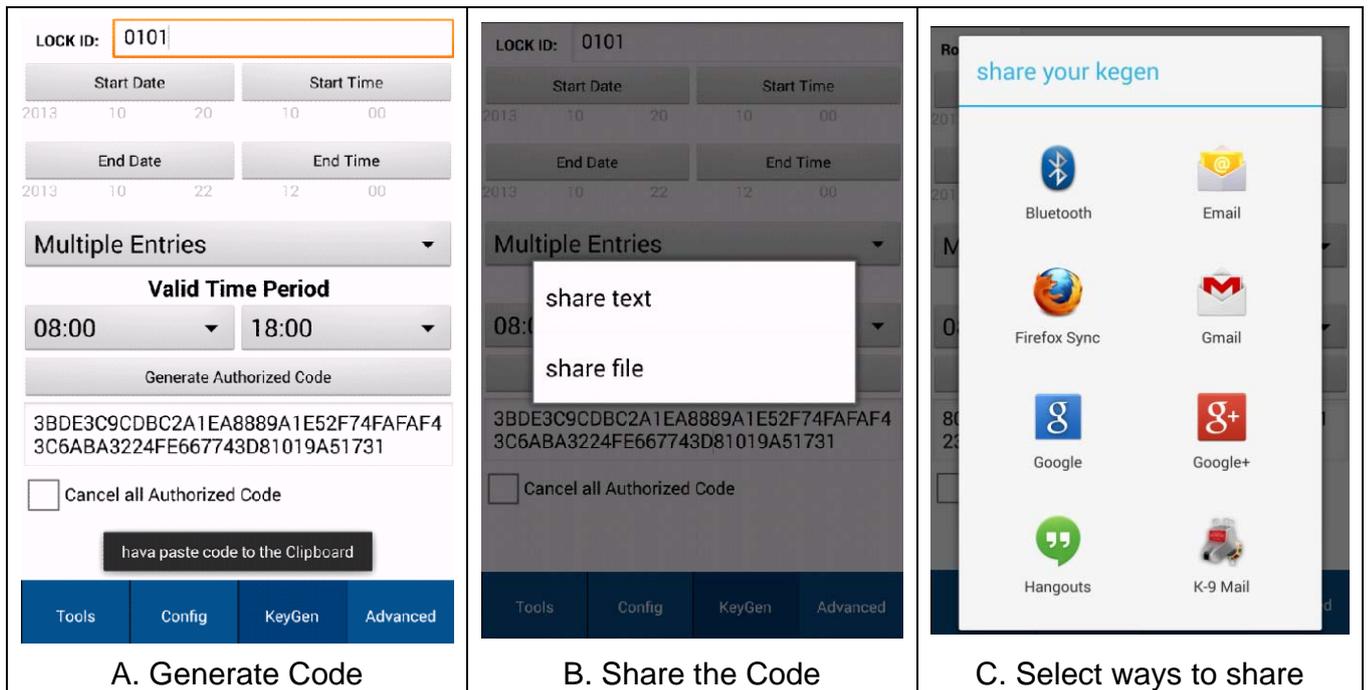
Push Generate Authorized Code will generate a new code. And the code is copied to clipboard. There are two ways to send the code to the user:

1) Paste the code

Run SMS, Skype, Email or other tools, and then paste the code to according area. Send it to the user.

2) Share and send

Push and hold Authorized Code text, a share menu popped up. Share text means that paste the code in sending area. And share files means that the code will be as a file to be sent out.



2.3. Tools

2.3.1. Lock mode

1) Normal

After unlock, lock automatically in 6 seconds.

2) Delay to Lock

The lock can be set to 30 ~ 240 minutes delay to lock.

3) Disable Lock

Unlock for ever.

4) Manually lock setting

Set the lock to Manual mode. In such mode, when user access the lock, the lock will unlock for ever; and then, access the lock next time, the lock will lock immediately. The lock controlled by access, Lock and then unlock alternately.

Notes:

- 1) Delay lock or disable lock will be cancelled by Normal access.
- 2) Set to delay or disable will cancel the Lock Manual.
- 3) Set Lock Manual will cancel delay or disable Lock.

Lock Mode:

- Normal
- 30 Min Delay
- 1 Hour Delay
- 2 Hours Delay
- 4 Hours Delay
- Disable Lock

Lock/Unlock Manually Setting

- Enable/Disable Manual mode

Lock/Unlock Timer

Tools

Config

KeyGen

Advanced

2.3.2. Lock/Unlock Timer

Not available.

2.4. Advanced

1) Cancel all authorized code

After send this request to one lock, all the authorized code for it before will be invalid.

2) Upload access records

3) Special Function 1

Reserved.

4) Special Function 2

Reserved.

3. Guest Portabel Device

The portable device of guest user must have NFC and installed MKey application.



3.1. How to use Authorized code

1) Received text by SMS, Instant Messenger.

Copy the code first, and then run MKey, paste the code to the code input area in the middle.

2) Received file by Email, Instant Messenger.

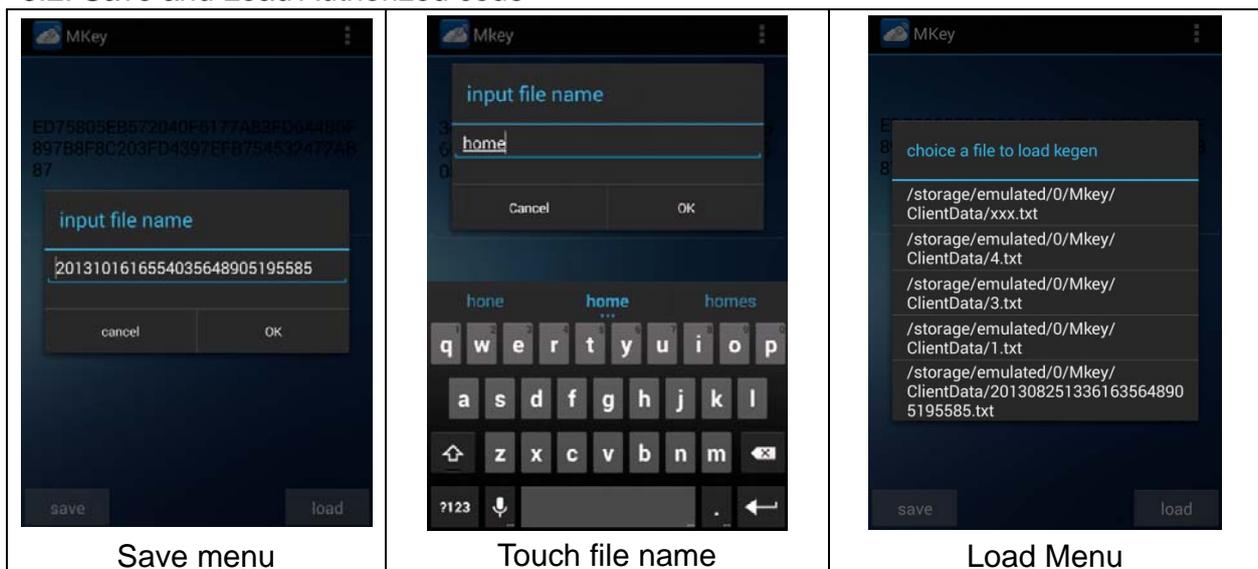
Touch the file, and then open options will pop up, select MKey to open it.

3) Acces the lock

Approach the portable device to the sensing area of lock, the screen shrink, then touch the screen to unlock.



3.2. Save and Load Authorized code



Notes:

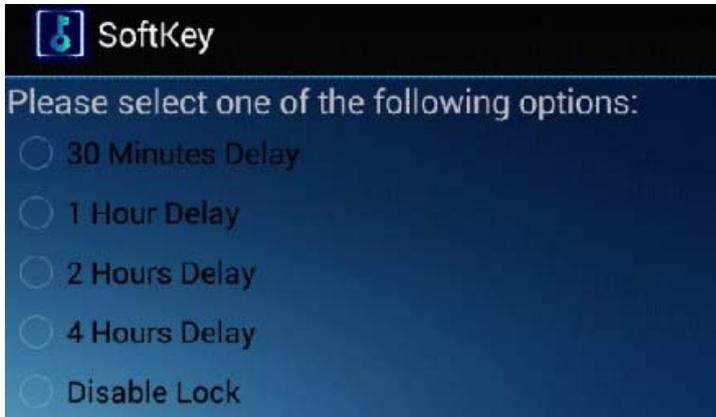
If want to delete the saved code, need use File Explorer (For example: ES File Explorer). All the codes were save in /sdcard/Mkey/ClientData/, delete the any one you want.

4. Long-term User and Key

For the family members and staffs, it is not necessary send an Authorized Code to them every time. Install SoftKey or use a NFC tag as long-term users.

4.1. SoftKey

Run SoftKey first, approach the portable device to the sensing area of lock, the screen shrink, and then touch the screen to unlock.



SoftKey access lock is normal Lock mode by default. If select one option in the LockMode menu, the lock can be set delay to lock or disabled. After send command to Lock, it will be reset to normal Lock.

4.2. Member Key

Member Key is a NFC tag which is learned in the Lock when initialization. Put a member key near the read window of Lock, buzzer will beep once, and then is unlocked.

4.3. Keys comparison

	Janitor	MKey	Master Card	SoftKey	Member Key
Unlock all lock	Y	N	Y	N	N
Unlock dead bolt (Optional for lock)	Y	N	Y	Y (Optional)	Y (Optional)
Disable Lock (Passage mode)	Y	N	N	Y	N
Cancel Disable Lock	Y	N	N	Y	N
Unlock without time limited	Y	N	Y	Y	Y
Unlock without times of entry limited	Y	N	Y	Y	Y

5. Change Management Device and Master Card

5.1. Change Master card or Management device of supervisor

1) Reset the lock to factory default

* Open the back panel, and then push the reset button for five times, there will be 1 beep when you turn it every time. After five times, it will end by 1 long beep. All the keys (include Master Key) are deleted from the memory of Lock.

* Some lock do not have reset button, turn the mechanical key five time can reset the lock to factory setting.

2) Change Master card

Run Janitor in the Management device of supervisor. First, read a NFC tag (for example, NTAG203), in “config -> Initialize target”, and then input a LockID at the top of screen. This NFC tag will be the Master Card of the system.

Second, approach to the portable device to the sensing area of door lock, the screen shrink, means there is communication between phone and lock, then touch the screen to confirm. Repeat this for next lock.

3) Change Management device of supervisor

Put the Master card to the sensing area of lock, after it is read 5 times with 5 beeps, the Management device of supervisor is deleted.

Install and run Janitor app in another portable device, read the Master card in “config -> Initialize Target”, and then touch the sensing area of lock.

5.2. Cancel Management device for staff

1) If want to cancel a staff device, just uninstall Janitor. Even it is re-installed, it will not work without read the Master card.

2) If the staff device lost, the Master card suggested to changed for all lock in case.

6. Master card and Key Management

6.1. Master card

1) If the lock was initialized by Janitor, the NFC card read by phone is the Master card automatically.

2) If the lock works in Standalone mode:

First reset the lock to factory setting (refer to Part 5.1). After the Lock is reset, put any NFC tag or phone near to the sensor window. One short and one long beep are to indicate Master Key programmed successfully. One lock can only generate only 1 Master Key.

6.2. Generate Member Key:

1) Read the Master card, the door is unlocked with 1 beep. Blue light flashes continuously, and the Lock is in the programming mode.

2) In 6 seconds put a NFC tag or portable device near the sensor window. A “beep” is to indicate the Member Key programmed successfully. Two short beep means that the Key was generated before.

3) Generate other Member Keys follow by the step (4.2.) until exit by putting the Master Key near to the sensor windows. If 10 beeps, that means Memory of Lock is full.

4) Unlock Dead Bolt:

Generate Member Key while dead bolt is stretching, this Member Key can unlock the dead bolt locked. Otherwise, the Member Key cannot unlock the door is dead bolt locked.

6.3. Delete Member Key:

6.3.1. Delete all the Member Key:

Read the Master Key 5 times continuously. There will be 3 long beeps to indicate delete successfully.

6.3.2. Delete one of the Member Key:

a/ Read the Master Key 3 times continuously, and then the blue LED turns to fast flashing.

b/ Put the Key which is the previous key before the one to be deleted. One Long beep means delete successfully.

Put the last Member Key can delete the first Key.

If want to delete the only 1 key left in the memory, using the Delete all Member Key procedure.

7. Buzzer Indicator

The Buzzer Indicator has lots of advanced feature to help the user troubleshoot the problem. Please read this section carefully before using the system.

Beep mode	Description
Long and then short beep	Lock power up
Beep once	Unlocked
Short beep once	Push reset button or turn the mechanical key
Long beep once	Lock reset to factory setting
Short and then long beep	Master card learned successfully
Beep three times	After read Master card five times, all Member card were deleted.
Long beep once	A member card was deleted
Short beep once	New Member card added successfully.
Short beep twice	This member added before when learning.
Short beep seven times	A invalid card put in, when to delete Member card
Short beep ten times	Member card memory is full
Short beep fourteen times	Only one Member card left, cannot be deleted
Short beep four times	Invalid key
Short beep five times	Low battery power
Beep twice	Cannot unlock deadbolt
Short beep seven times	Lock delay or set to passage mode. Unlocked by timer.
Beep three times	Locked by timer.