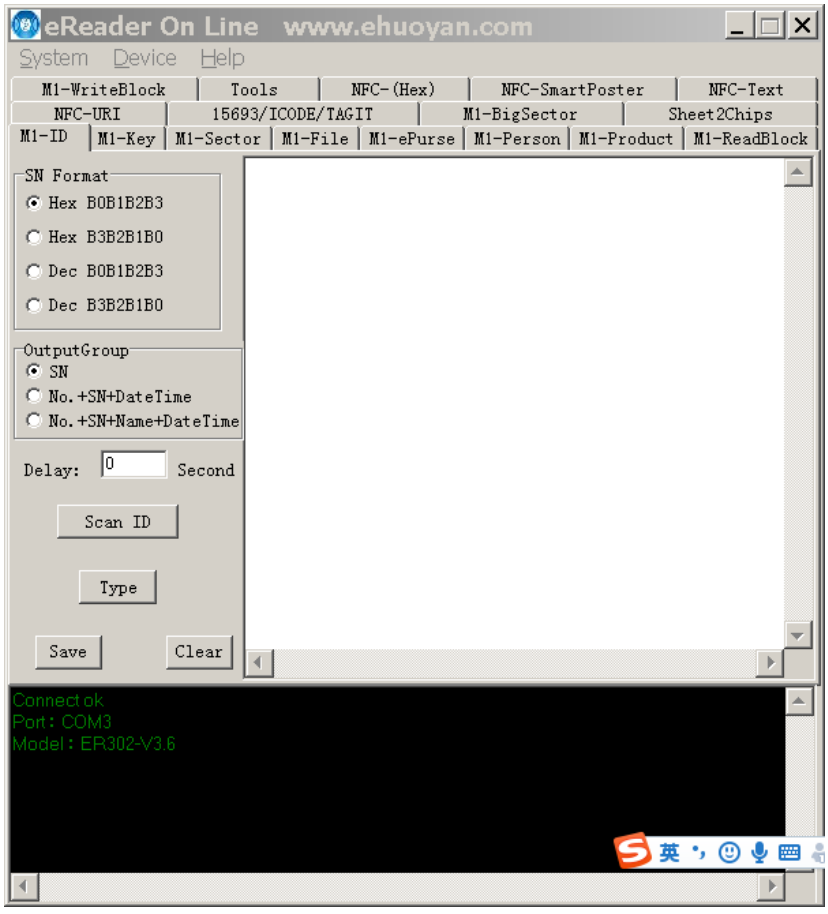
eReader

User Manual

Version:V9.0

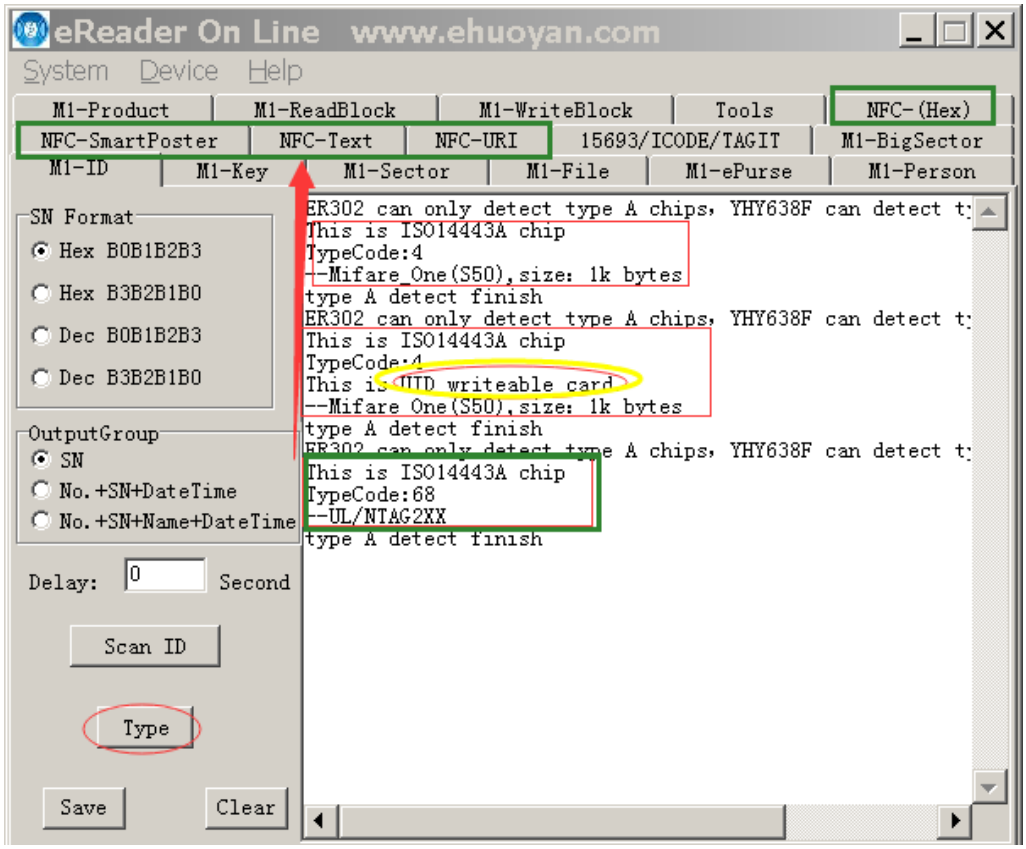
Ehuoyan Co.,Ltd



We make red notes on the pictures for telling how to use the program eReader.exe.

The **eReader** support ISO14443A type RFID/NFC tags, use the “ID->Type”, you can know what is chip in the tags. With the ER302 there are two types of tags can be read and write: Mifare 1(S50) and Ntag21x(UltraLight). You can see the datasheet of the tags in the SDK files. If your tags will used for all the NFC phones, please select the NTAG21x tag, these tags are compatible with all NFC phone. For other purpose you can use the Mifare _One(S50)/ MIFARE®1k.

If the device can not read out the type of the tag, it means that the tag maybe damaged or unknown type.



If your tag is NTAG213(216), please reference the "**NFC**" section. The else are for MIFARE®1k tag.

For the eReader program latest version please go to site: www.ehuoyan.com For more information.

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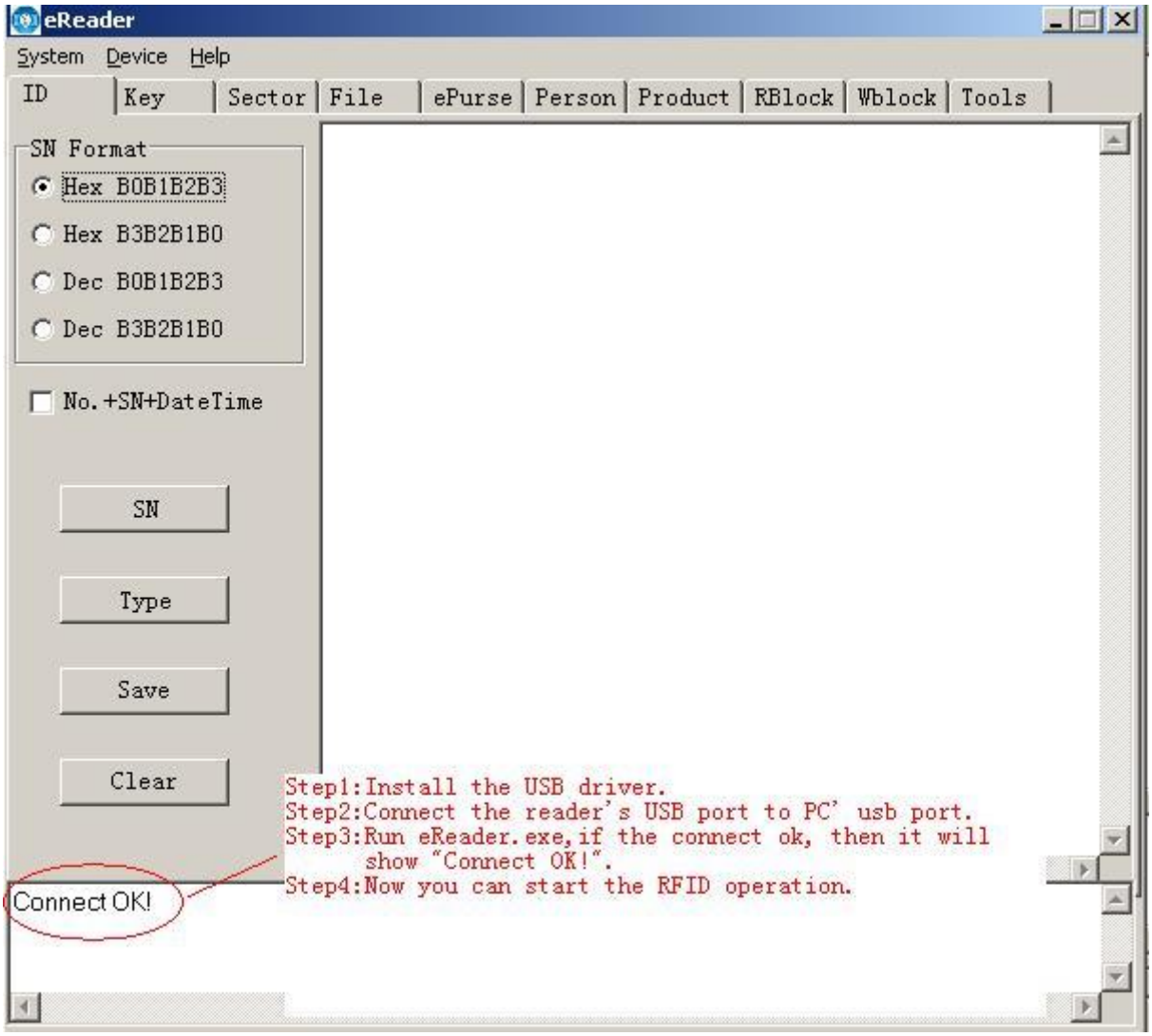
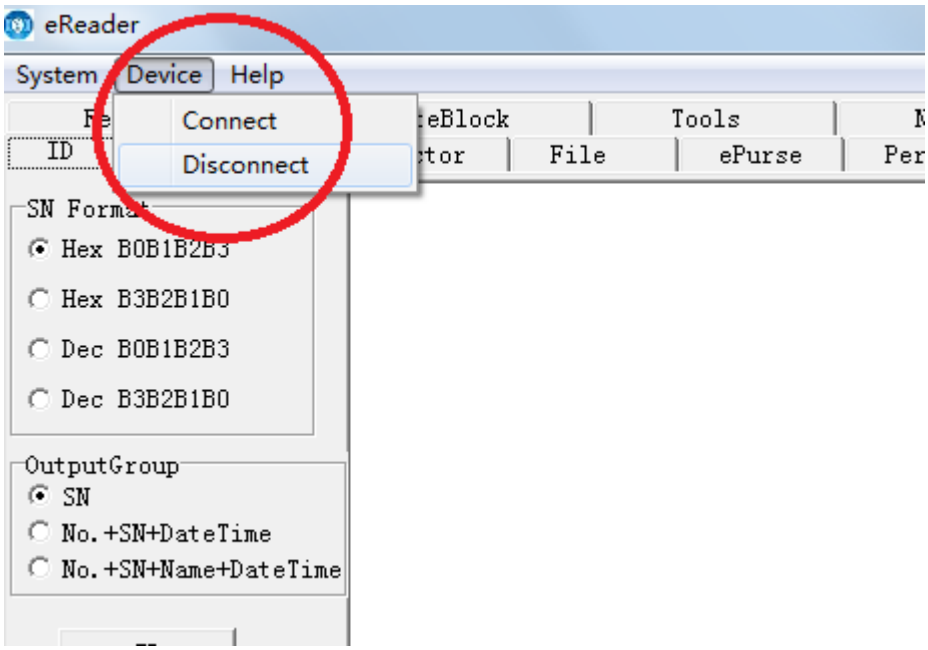
1. Connection



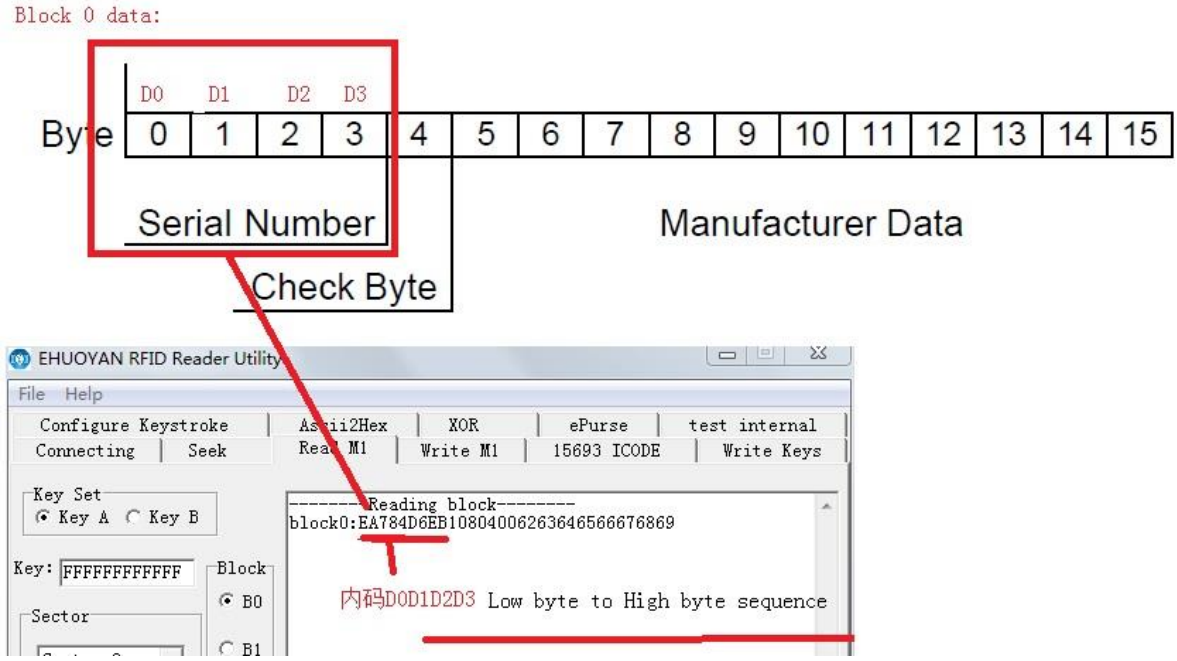
You can disconnect or reconnect the device from the PC by click on the menu

“Device->Disconnect” or “Device->Connect”.

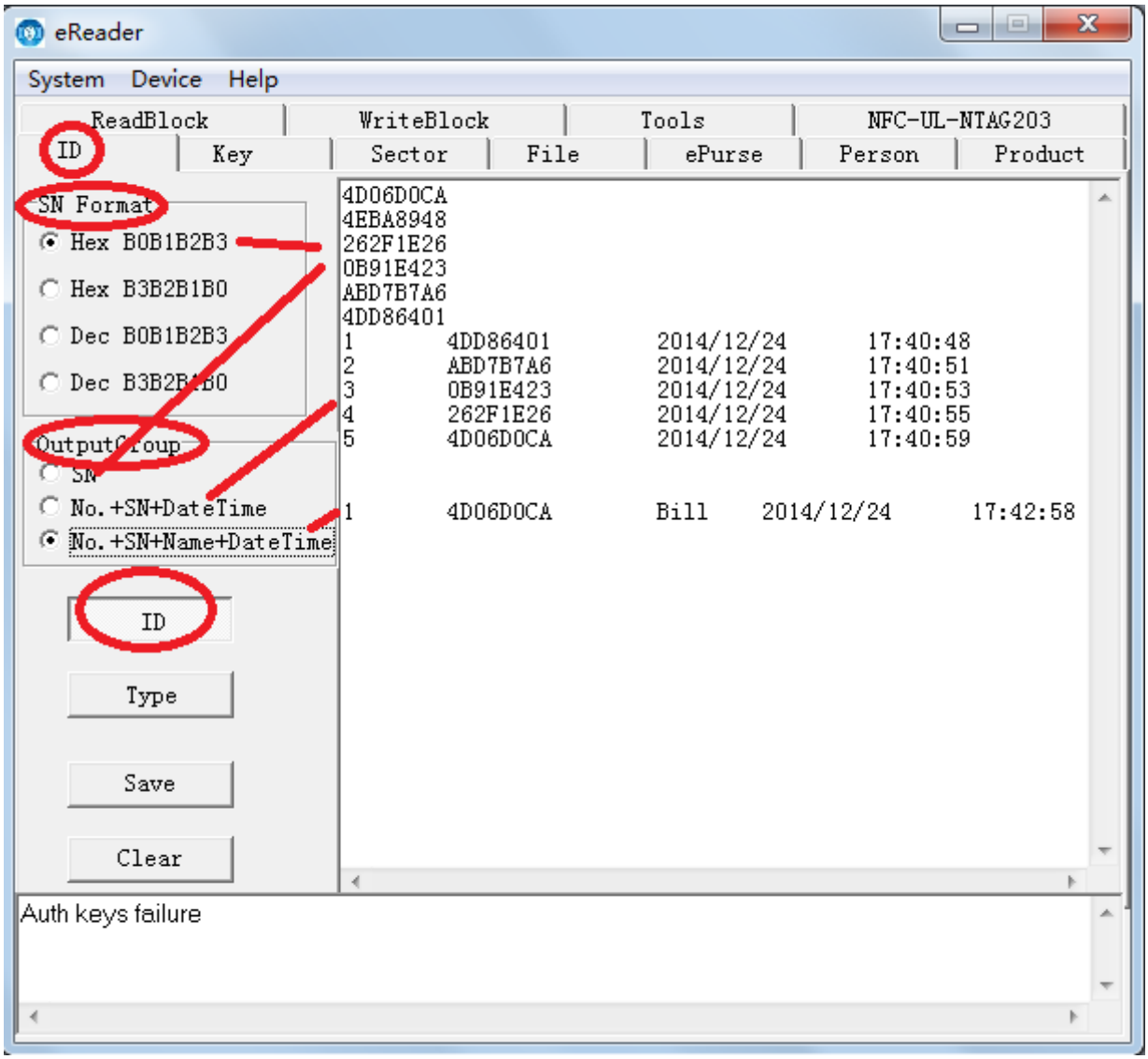
Note: Before unplug the rfid device, please “Device->Disconnect” or CLOSE the eReader program.



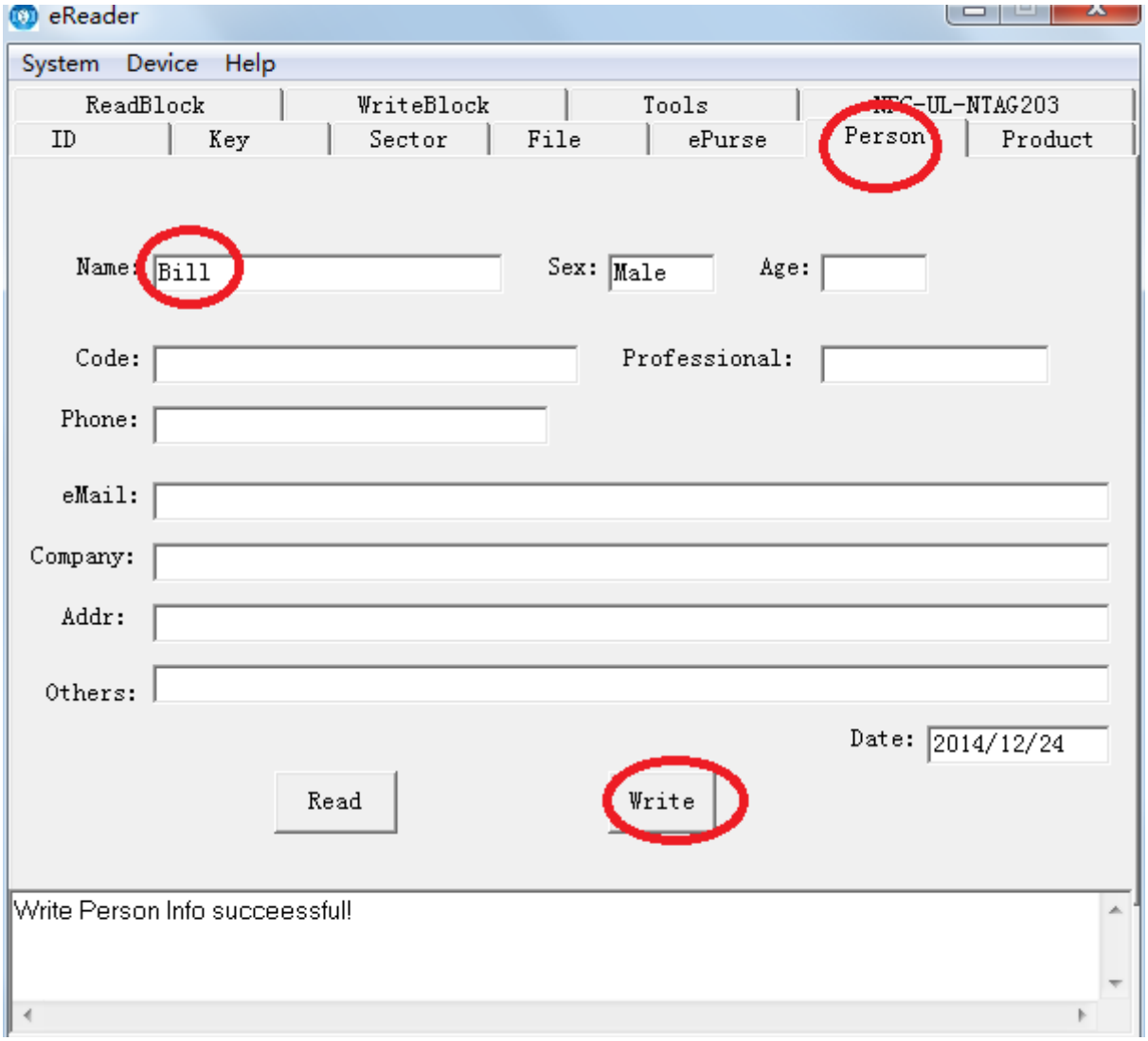
2. ID



The UID record will save in file SnNameRecord. Also you can save the result as your own file name and location.



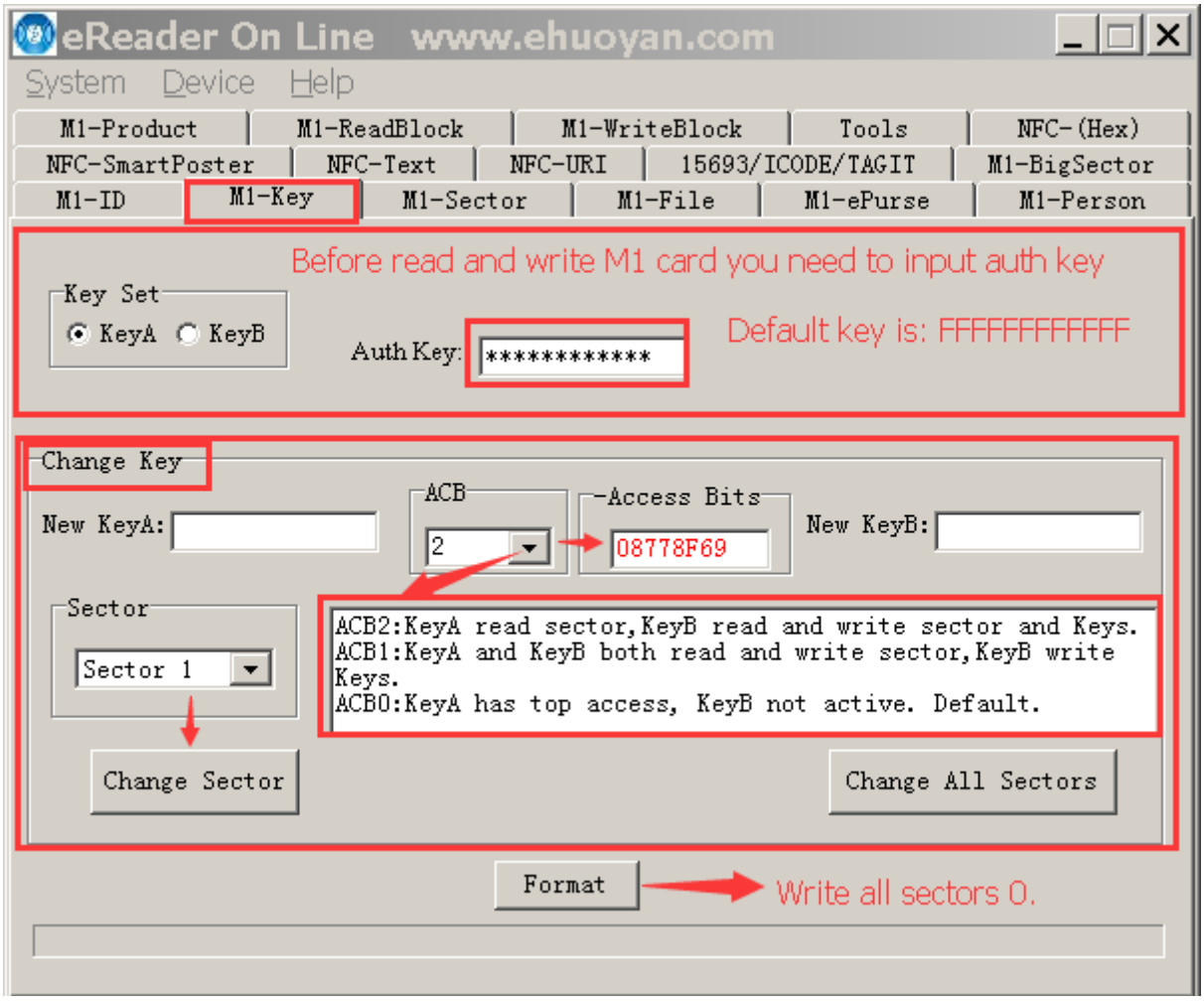
If you want to use the outputGroup(3):No.+SN+Name+DateTime,then you need to write the name into the mifare1k card first. Next picture show how to write the name into the card.



3. Key

Input auth key before the operation of Sector, File, epurse, Person, Product, ReadBlock, WriteBlock. The default key is 12 F –"FFFFFFFFFFFF". The auth key is composed of 0-9 and A-F. It is hexdecimal code.

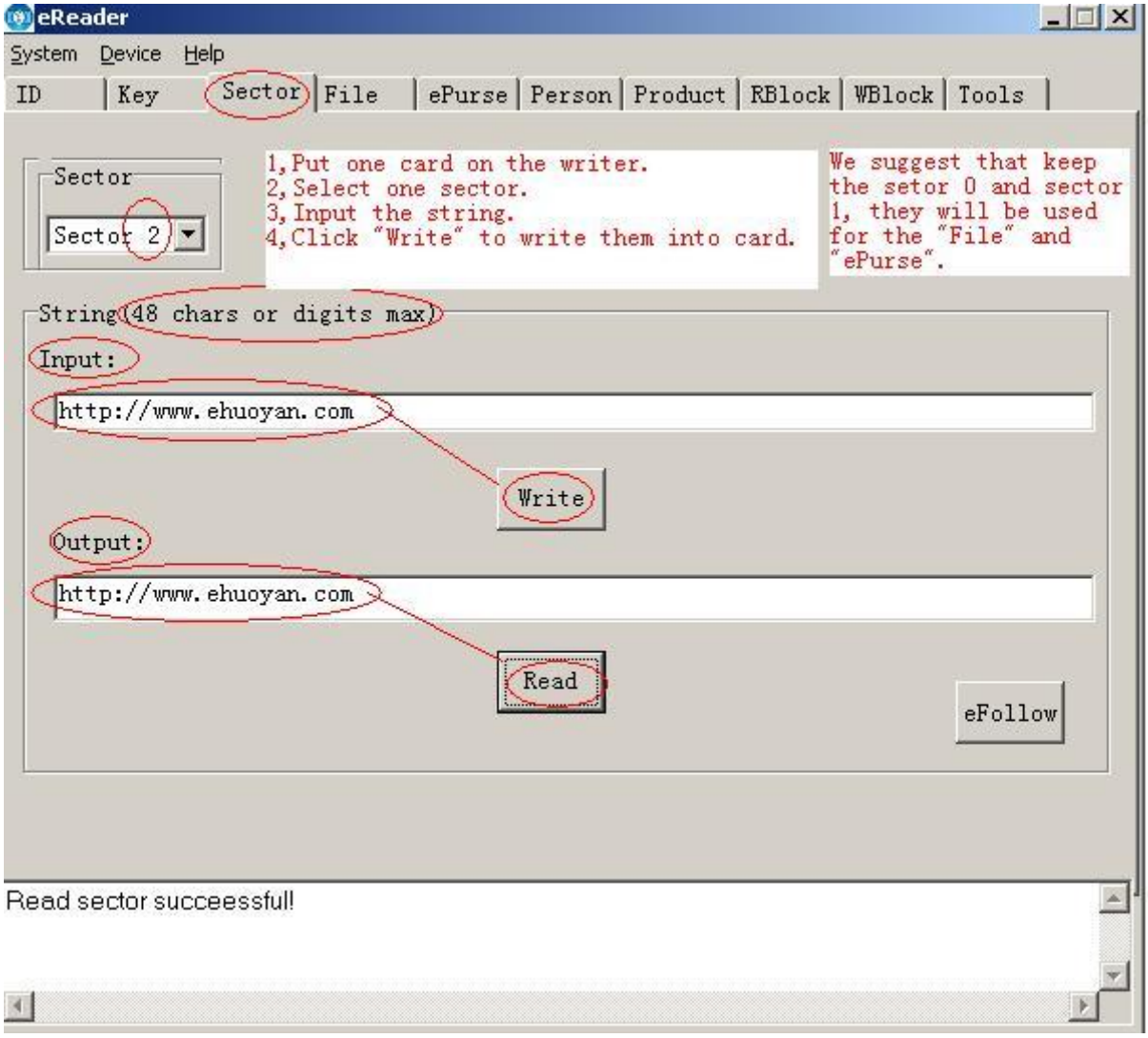
DO NOT FORGET YOUR NEW KEYS AND THE ACCESS BITS WHEN YOU CHANGE IT!



The default access bits is FF078069, the keyA has the top right to read and write the tags, the keyB is NOT active. Change the access bits to "08778F69", the keyA can only read, but the keyB can read and write all the block and change the key blocks.
The keyA or keyB will shown as "0" when you read the key blocks. It is similar with the ""*"signal.

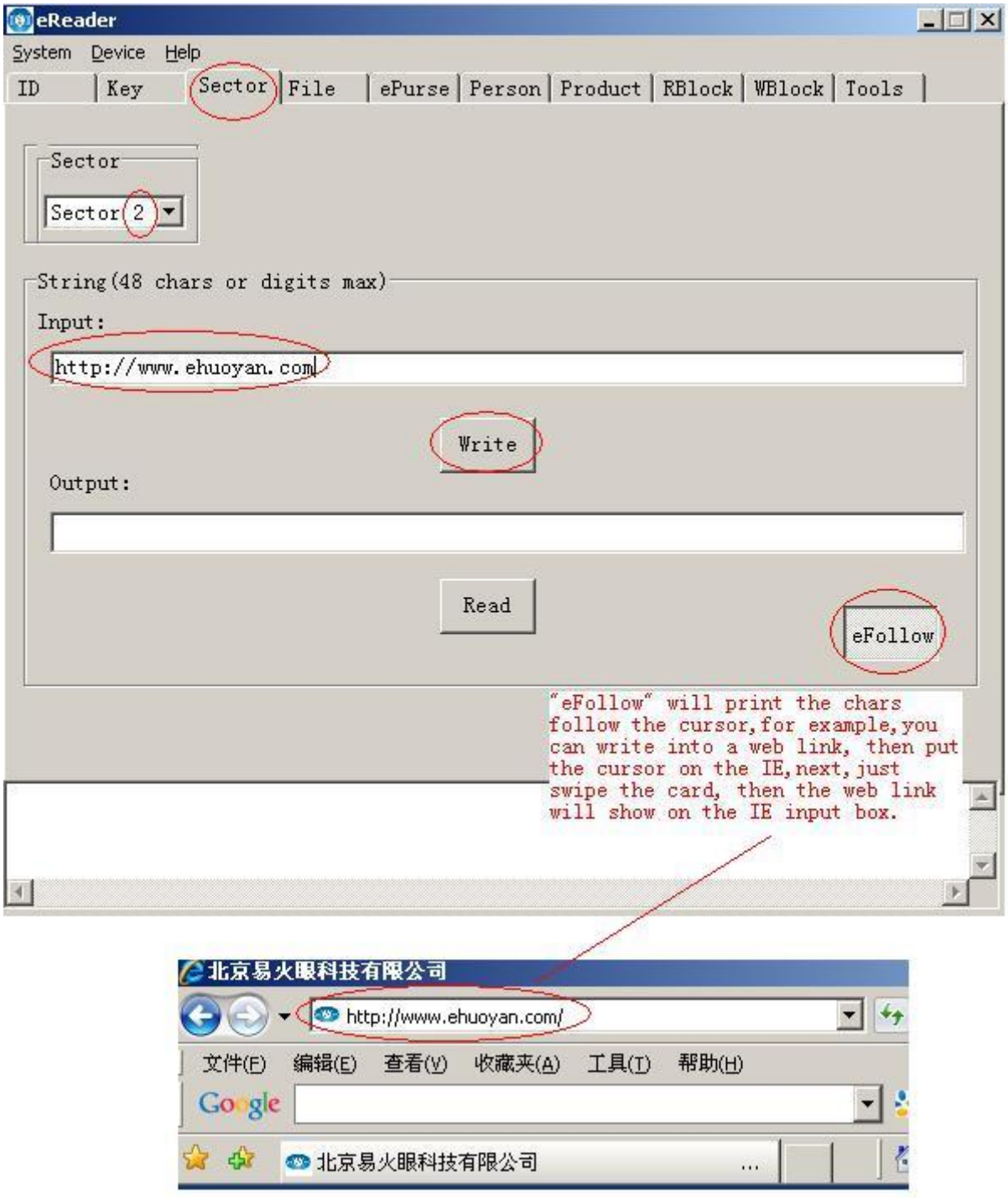
4. Sector

The mifare1k(S50) has 16 sectors from 0 to 15, each sector can store 48 bytes data.



5. eFollow

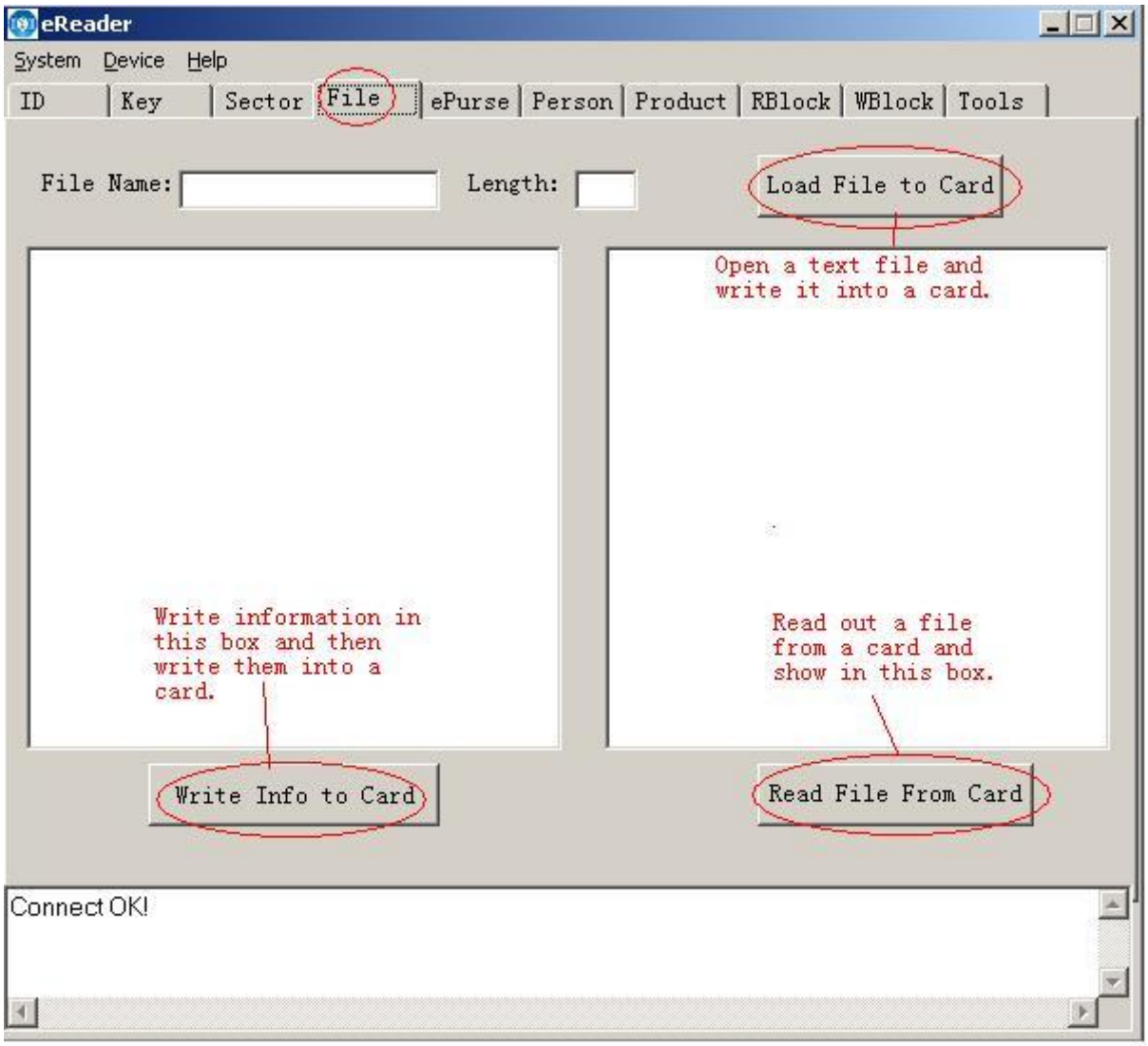
eFollow is a function which can read the sector's data then follow the cursor and print on it, it acts as key strike. Use the "eFollow", you can login to web link or facebook or somewhere else.

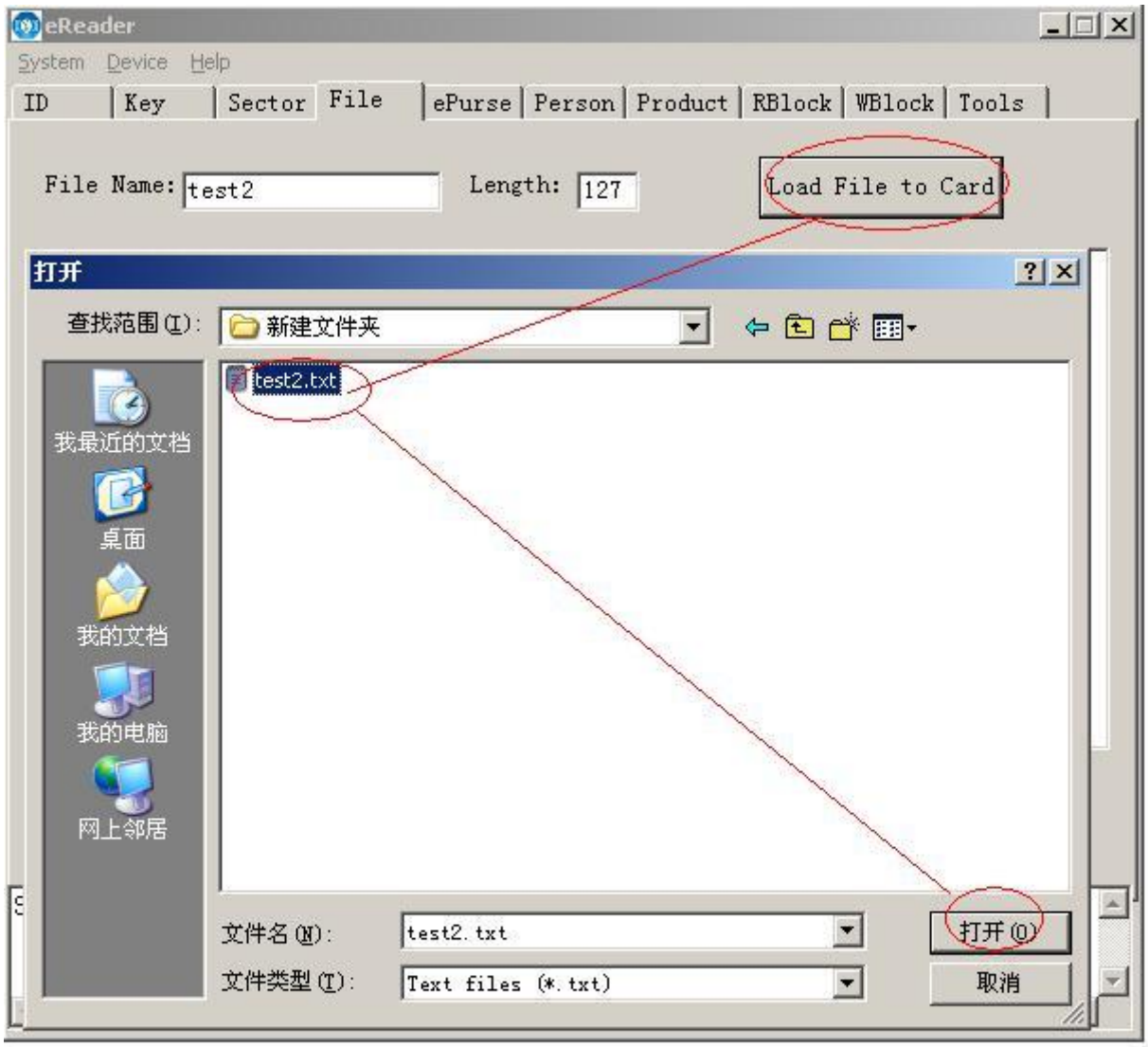


6. File

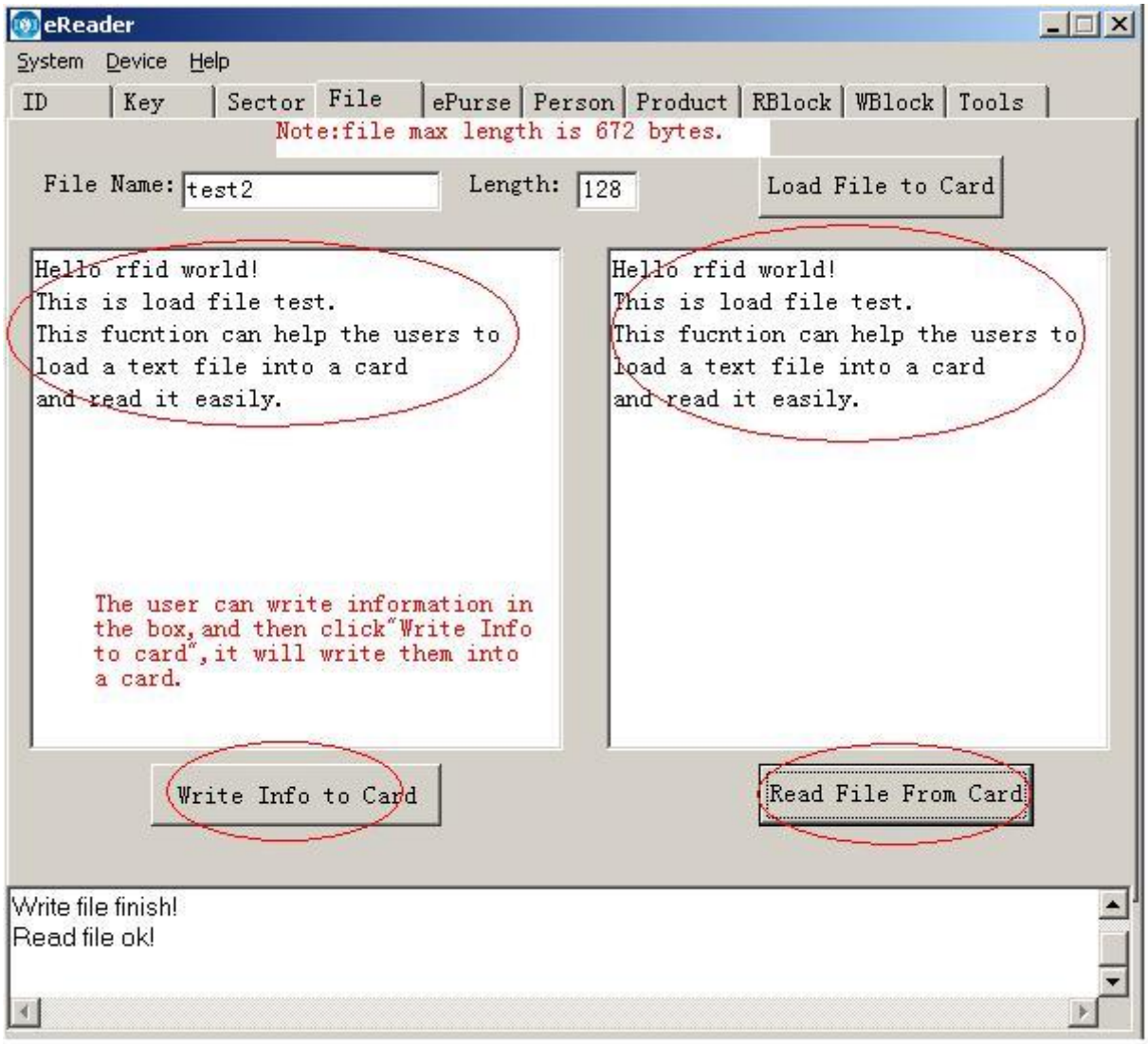
This function can help you to save files into the IC card, use this function the users

need no database to store the data.

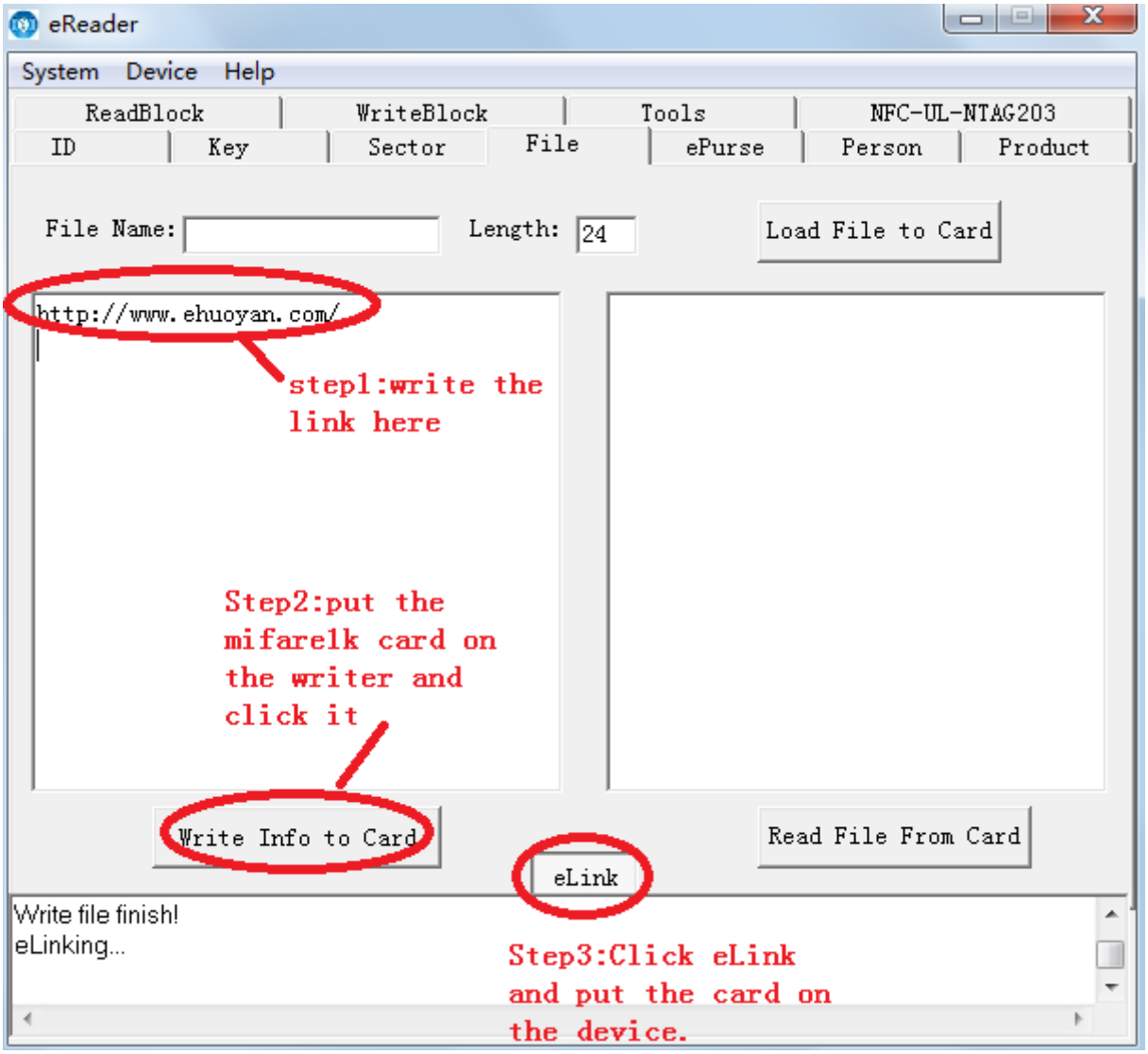




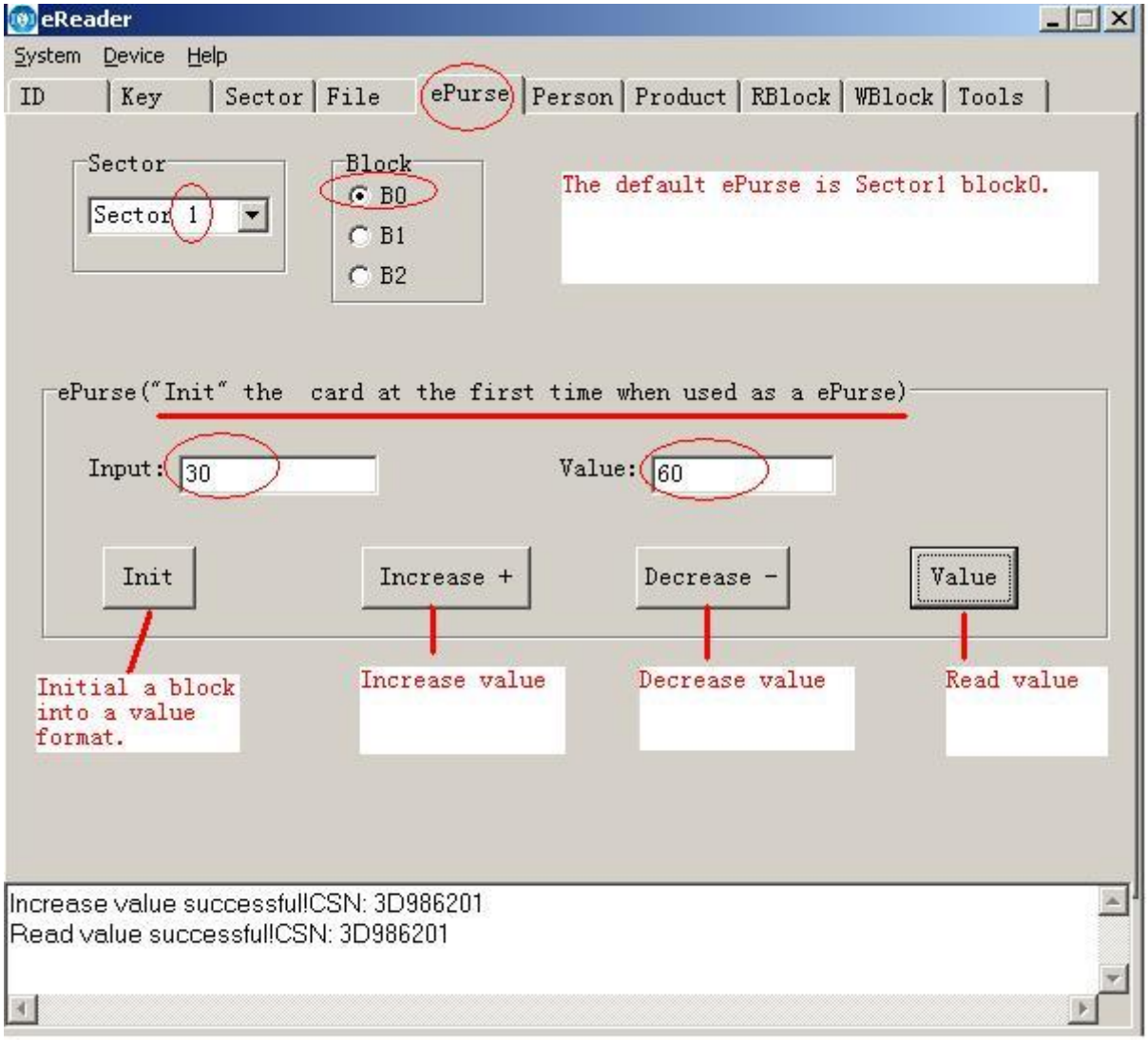
Click "Open" then the file test2.txt will load into the card.


eReader
System Device Help
ID Key Sector File ePurse Person Product RBlock WBlock Tools
Note:file max length is 672 bytes.
File Name: test2
Length: 128
Load File to Card
Hello rfid world!
This is load file test.
This fucntion can help the users to load a text file into a card and read it easily.
The user can write information in the box, and then click"Write Info to card", it will write them into a card.
Hello rfid world!
This is load file test.
This fucntion can help the users to load a text file into a card and read it easily.
Write Info to Card
Read File From Card
Write file finish!
Read file ok!

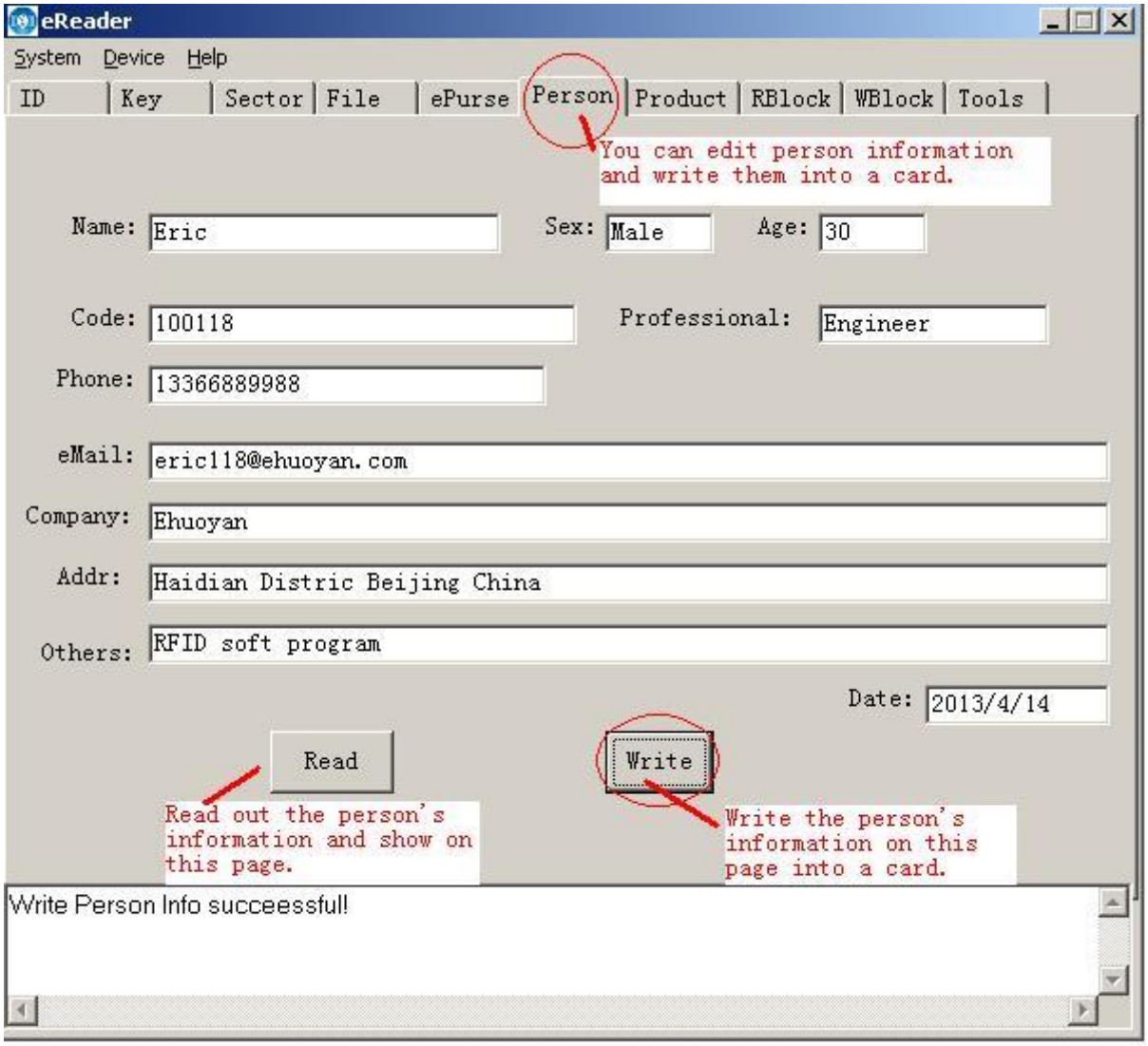
7. eLink


eReader
System Device Help
ReadBlock WriteBlock Tools NFC-UL-NTAG203
ID Key Sector File ePurse Person Product
File Name:
Length: 24
Load File to Card
http://www.ehuoyan.com/
step1:write the link here
Step2:put the mifare1k card on the writer and click it
Write Info to Card
Read File From Card
eLink
Write file finish!
eLinking...
Step3:Click eLink and put the card on the device.

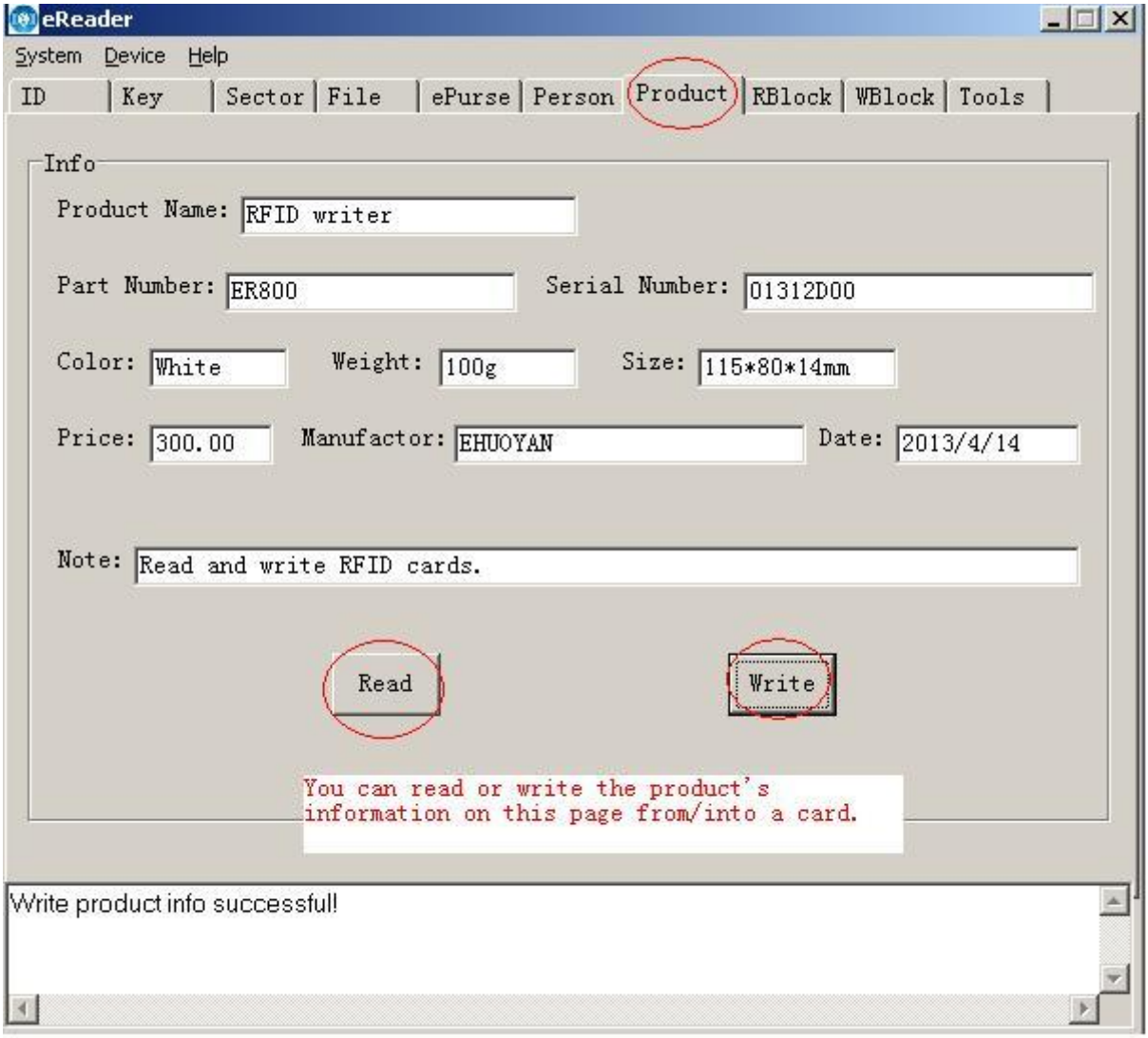
8. ePurse


eReader
System Device Help
ID Key Sector File ePurse Person Product RBlock WBlock Tools
Sector
Sector 1
Block
B0
B1
B2
The default ePurse is Sector1 block0.
ePurse("Init" the card at the first time when used as a ePurse)
Input: 30
Value: 60
Init
Increase +
Decrease -
Value
Initial a block into a value format.
Increase value
Decrease value
Read value
Increase value successful!CSN: 3D986201
Read value successful!CSN: 3D986201

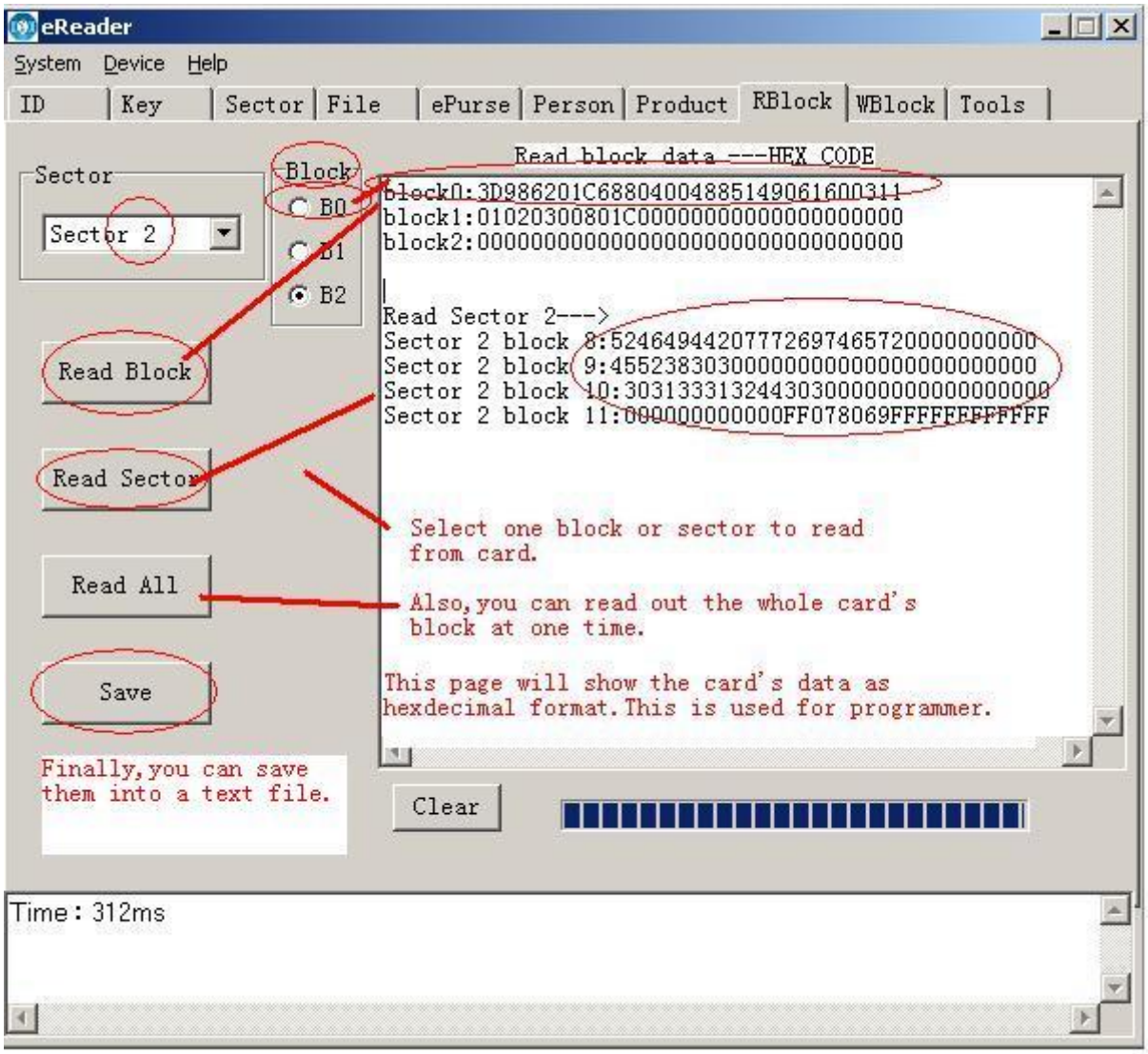
9. Person


eReader
System Device Help
ID Key Sector File ePurse Person Product RBlock WBlock Tools
You can edit person information and write them into a card.
Name: Eric
Sex: Male
Age: 30
Code: 100118
Professional: Engineer
Phone: 13366889988
eMail: eric118@ehuoyan.com
Company: Ehuoyan
Addr: Haidian Distric Beijing China
Others: RFID soft program
Date: 2013/4/14
Read
Write
Read out the person's information and show on this page.
Write the person's information on this page into a card.
Write Person Info succeessful!

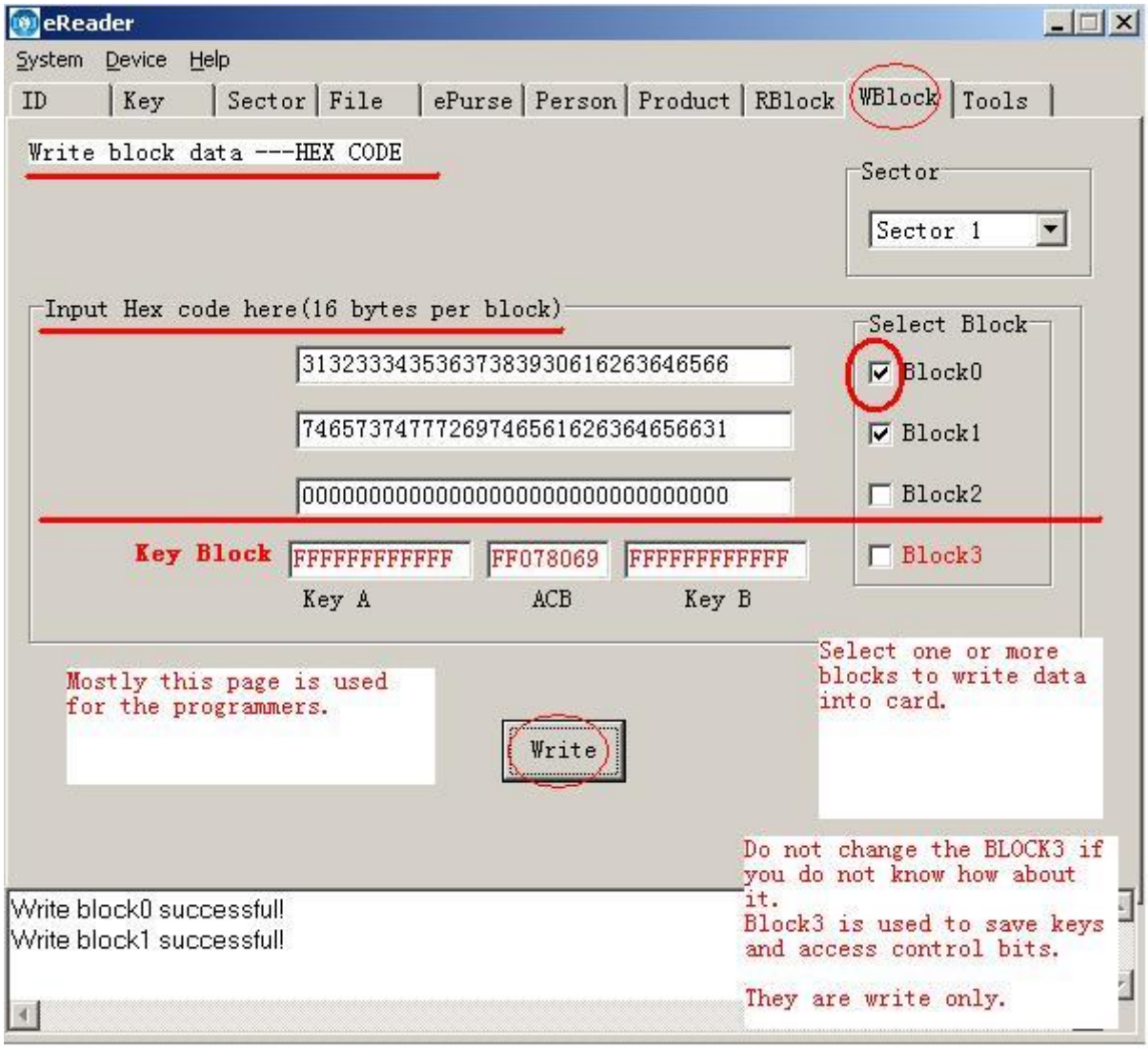
10. Product



11. ReadBlock

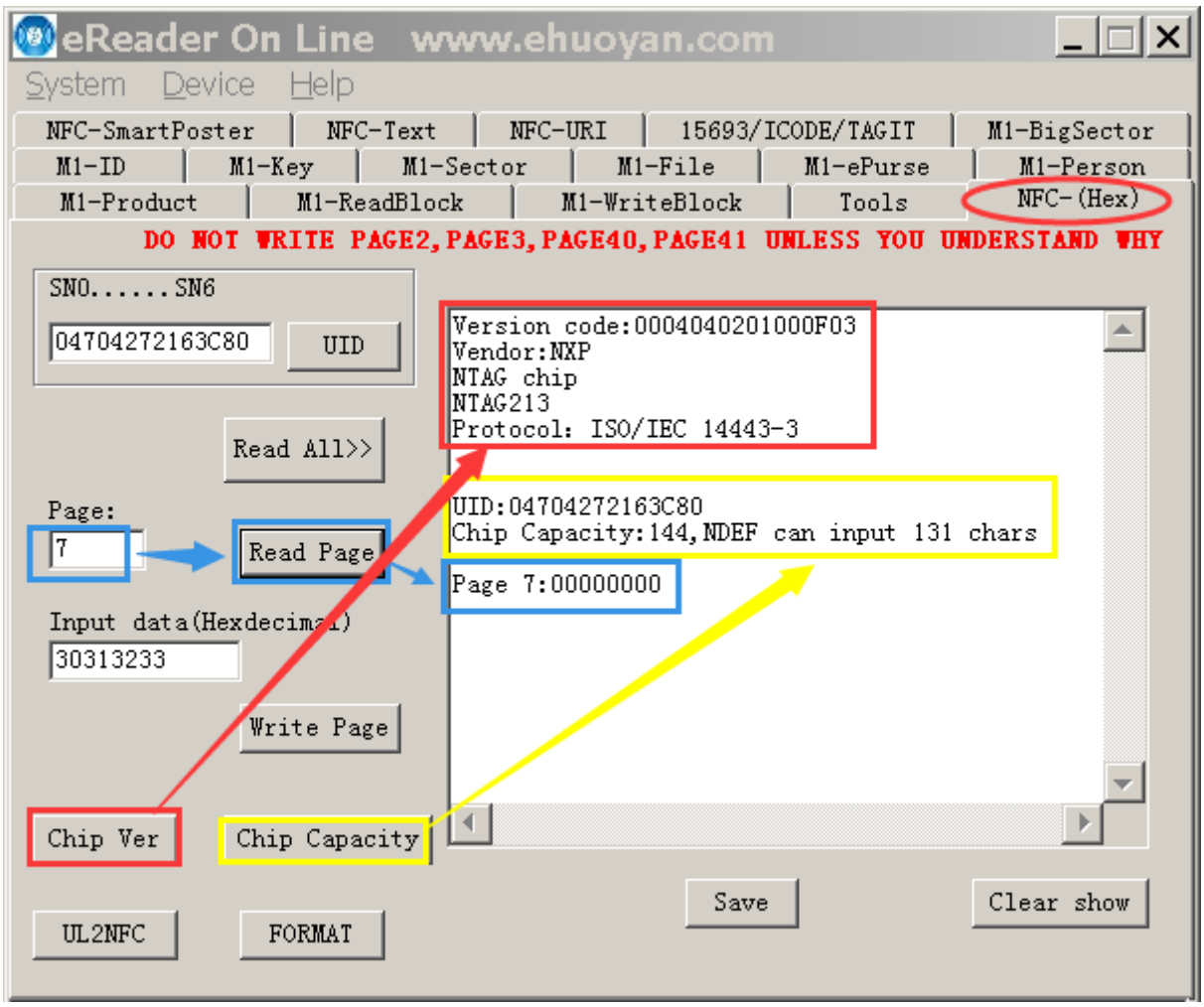


12. WriteBlock



Note: Block 0 in the sector 0 is UID block and it is read only.

13. NFC-Hex

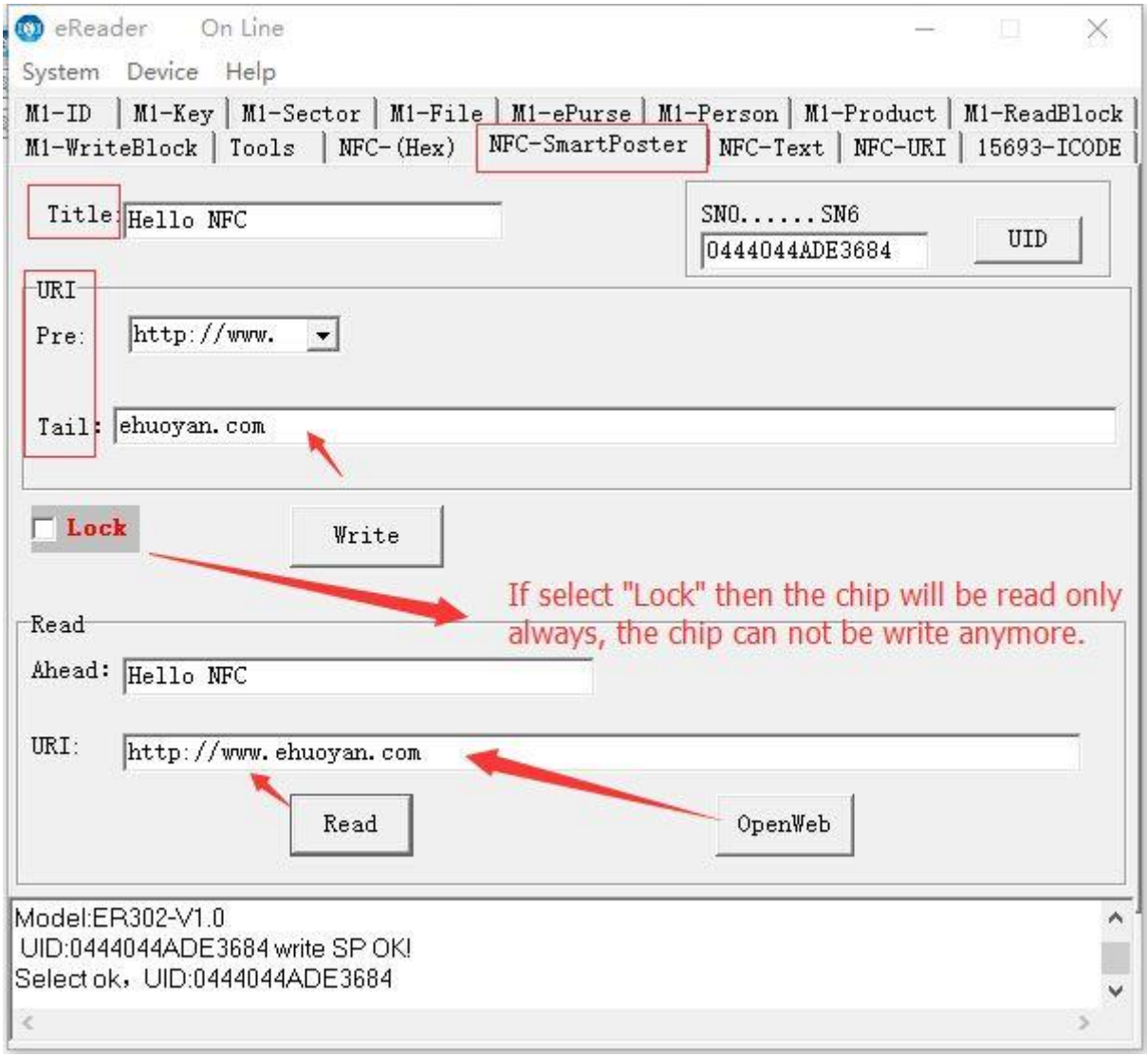


NOTE: DO NOT WRITE PAGE2, PAGE 3, PAGE 40, PAGE 41 unless you understand what you do. Read the NFC files before you start the work.

If you need to clear all the data as “0”, then you can use “FORMAT” to do it. After “FORMAT” all the data pages will be cleared.

If you have an Ultralight tag, you can use the “UL2NFC” to format it as a NFC tag.

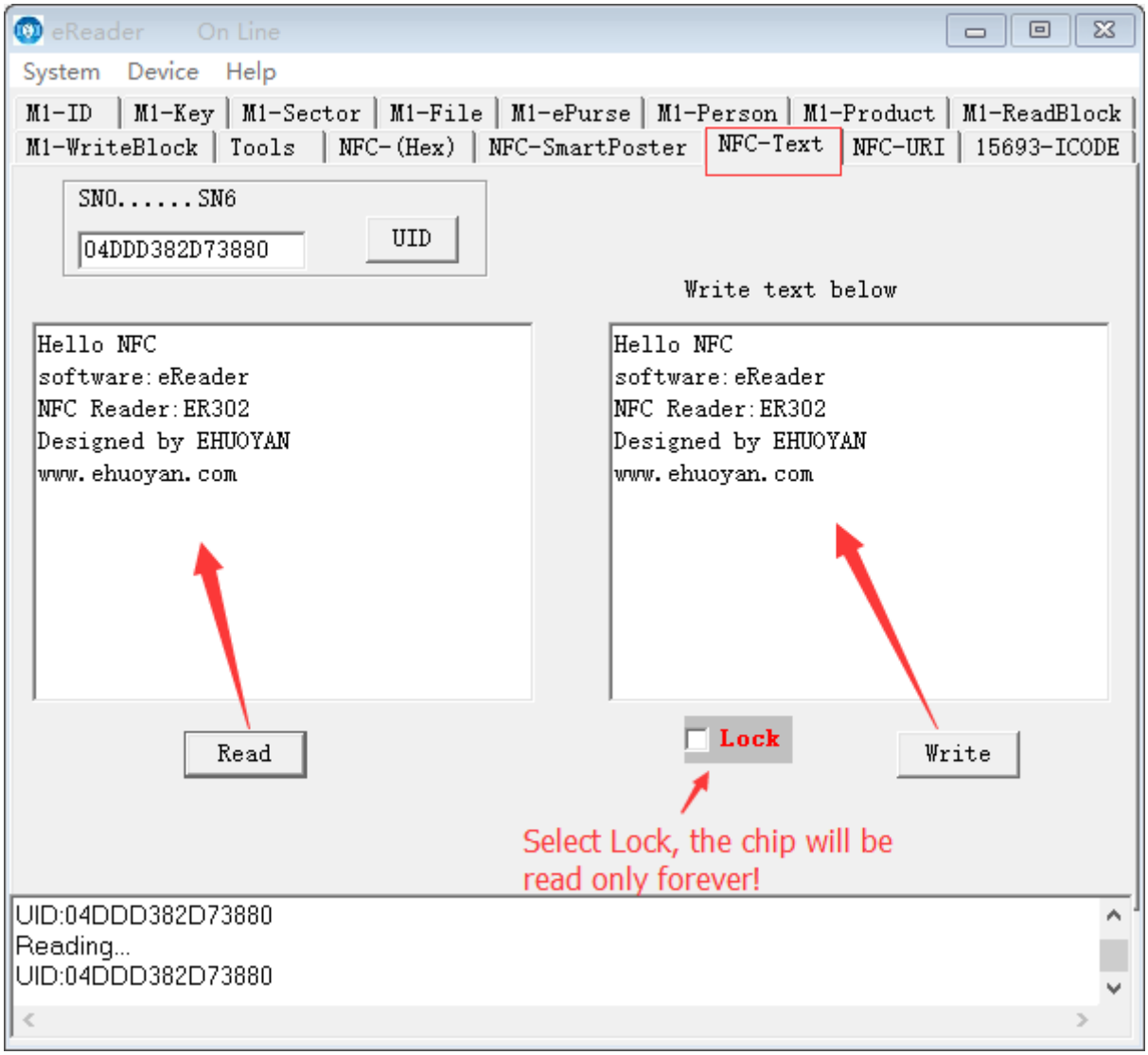
14. NFC-Smart Poster



Note that the “Lock” will LOCK all the pages and can not be changed anymore. After write the information into the NTAG213 tag, you can use a NFC phone to read it. It will show the web link and open the web page.

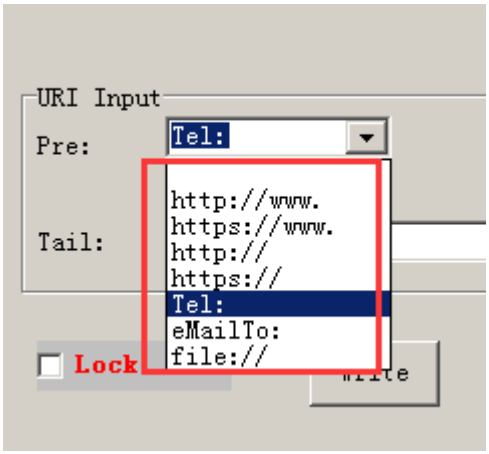
15. NFC-Text

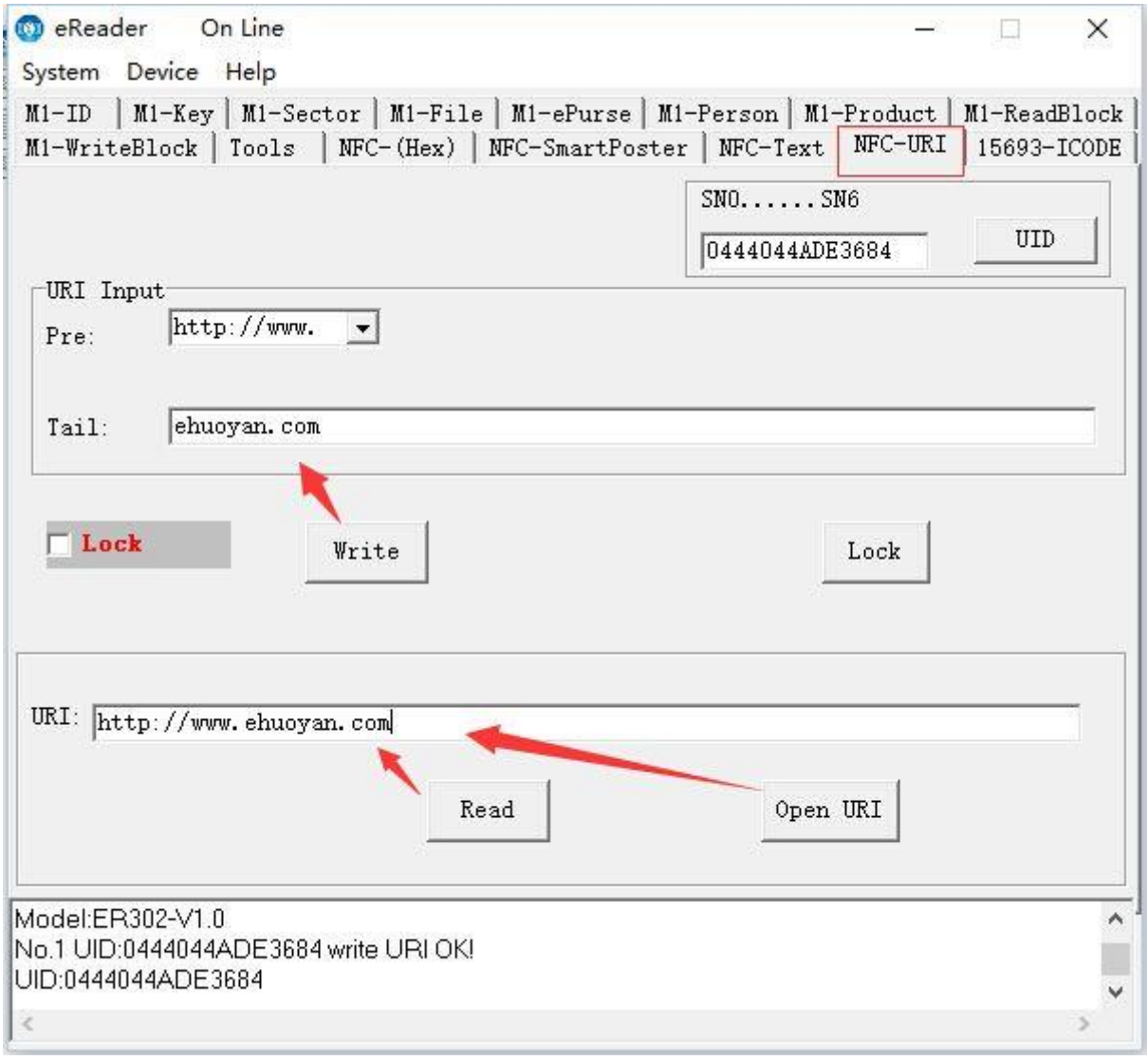
You can write text information into the tag and then read it by a NFC phone.

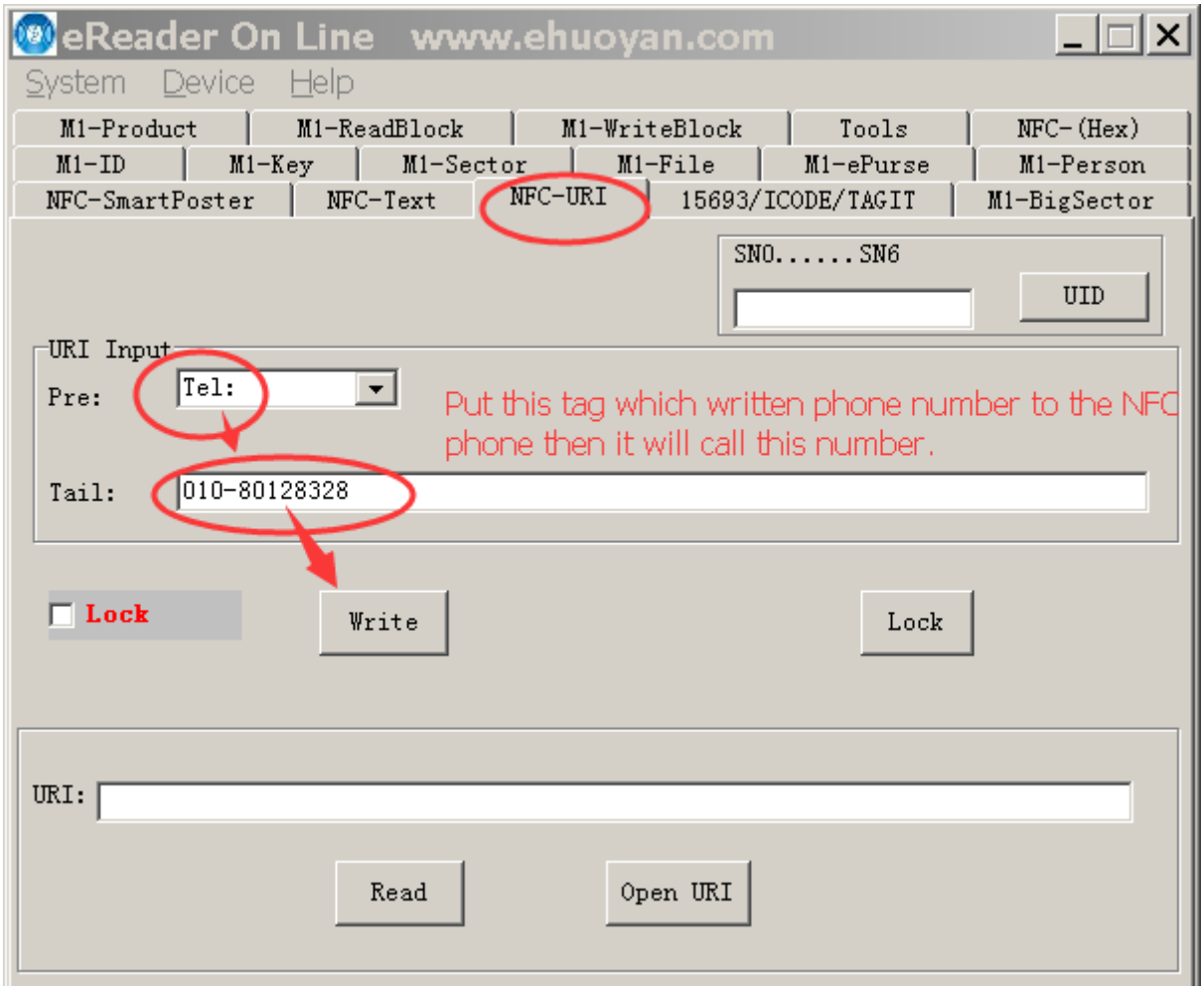


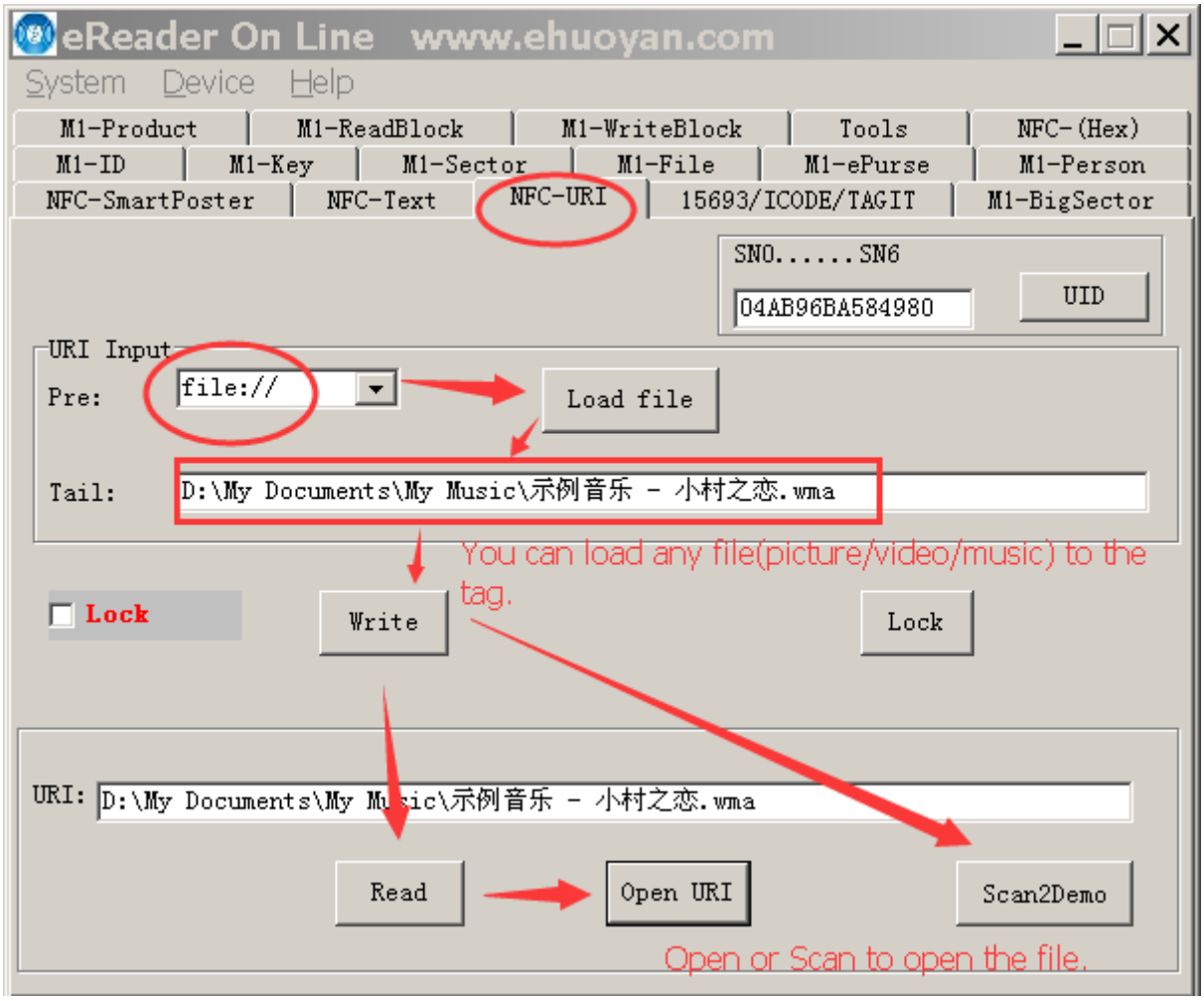
16. NFC-URI

The NFC-URI has no title. It is a simple way to write a URI to the NFC tag.

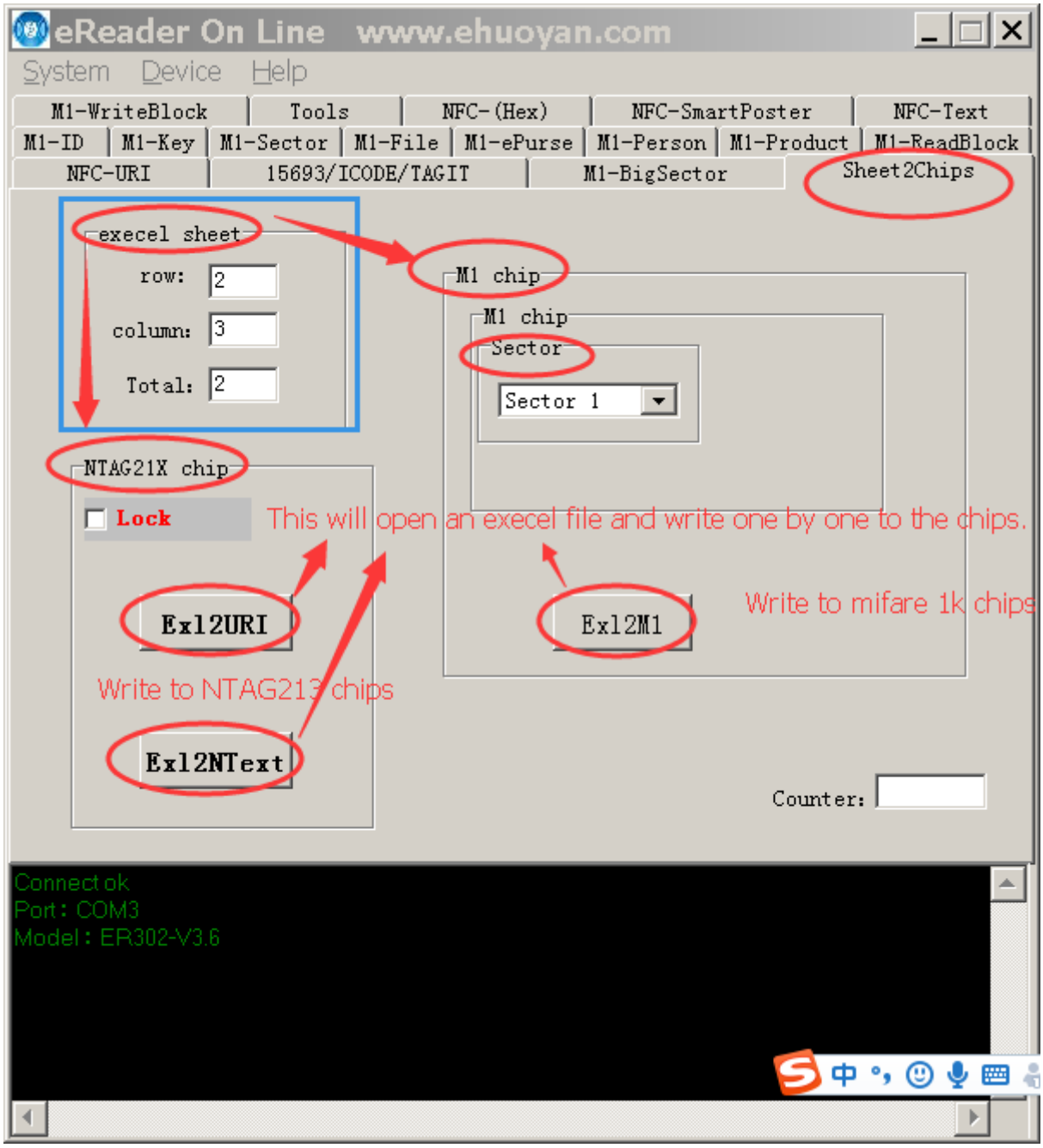

URI Input
Pre:
Tel:
http://www.
https://www.
http://
https://
Tel:
eMailTo:
file://
Tail:
Lock


eReader
On Line
System
Device
Help
M1-ID
M1-Key
M1-Sector
M1-File
M1-ePurse
M1-Person
M1-Product
M1-ReadBlock
M1-WriteBlock
Tools
NFC-(Hex)
NFC-SmartPoster
NFC-Text
NFC-URI
15693-ICODE
SNO.....SN6
0444044ADE3684
UID
URI Input
Pre:
http://www.
Tail:
ehuoyan.com
Lock
Write
Lock
URI:
http://www.ehuoyan.com
Read
Open URI
Model:ER302-V1.0
No.1 UID:0444044ADE3684 write URI OK!
UID:0444044ADE3684

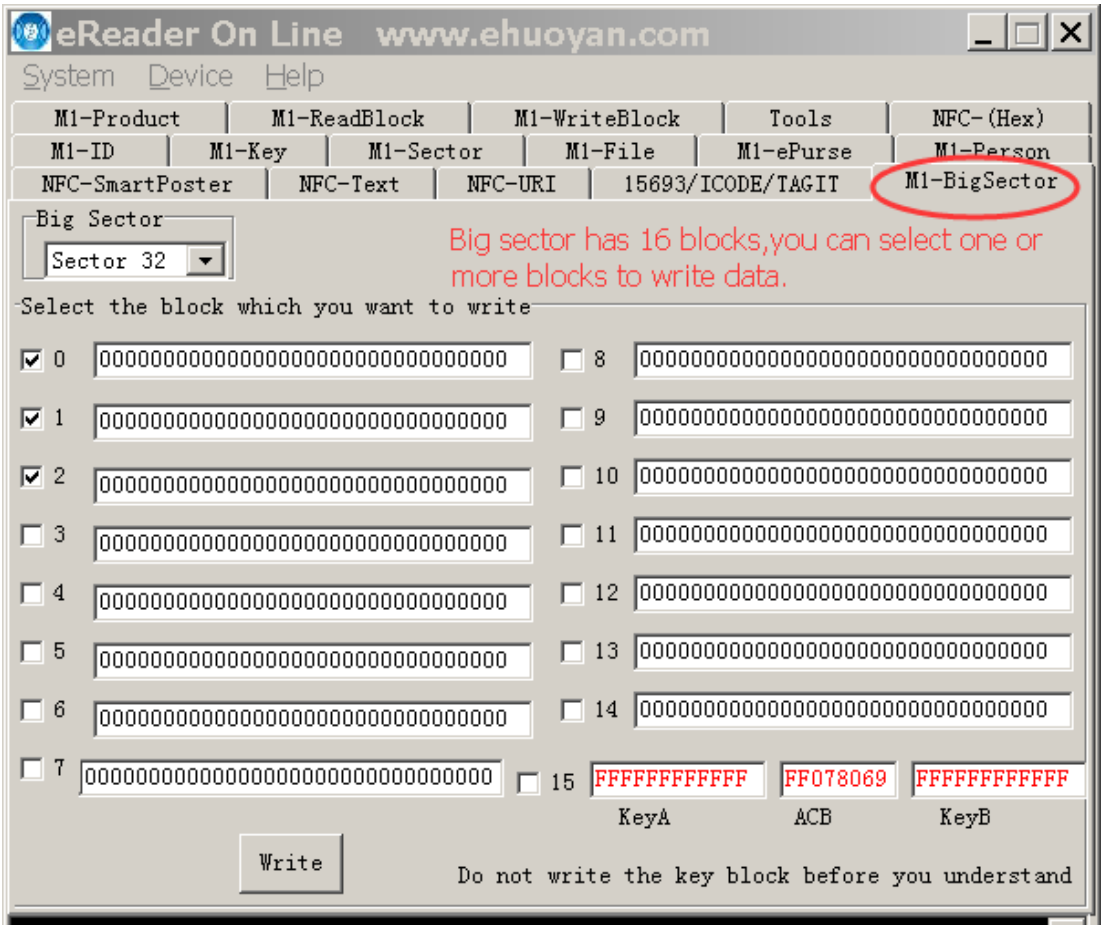

eReader On Line www.ehuoyan.com
System Device Help
M1-Product
M1-ReadBlock
M1-WriteBlock
Tools
NFC-(Hex)
M1-ID
M1-Key
M1-Sector
M1-File
M1-ePurse
M1-Person
NFC-SmartPoster
NFC-Text
NFC-URI
15693/ICODE/TAGIT
M1-BigSector
SN0.....SN6
UID
URI Input
Pre:
Tel:
Put this tag which written phone number to the NFC
phone then it will call this number.
Tail:
010-80128328
Lock
Write
Lock
URI:
Read
Open URI



17. Excel sheet to chips

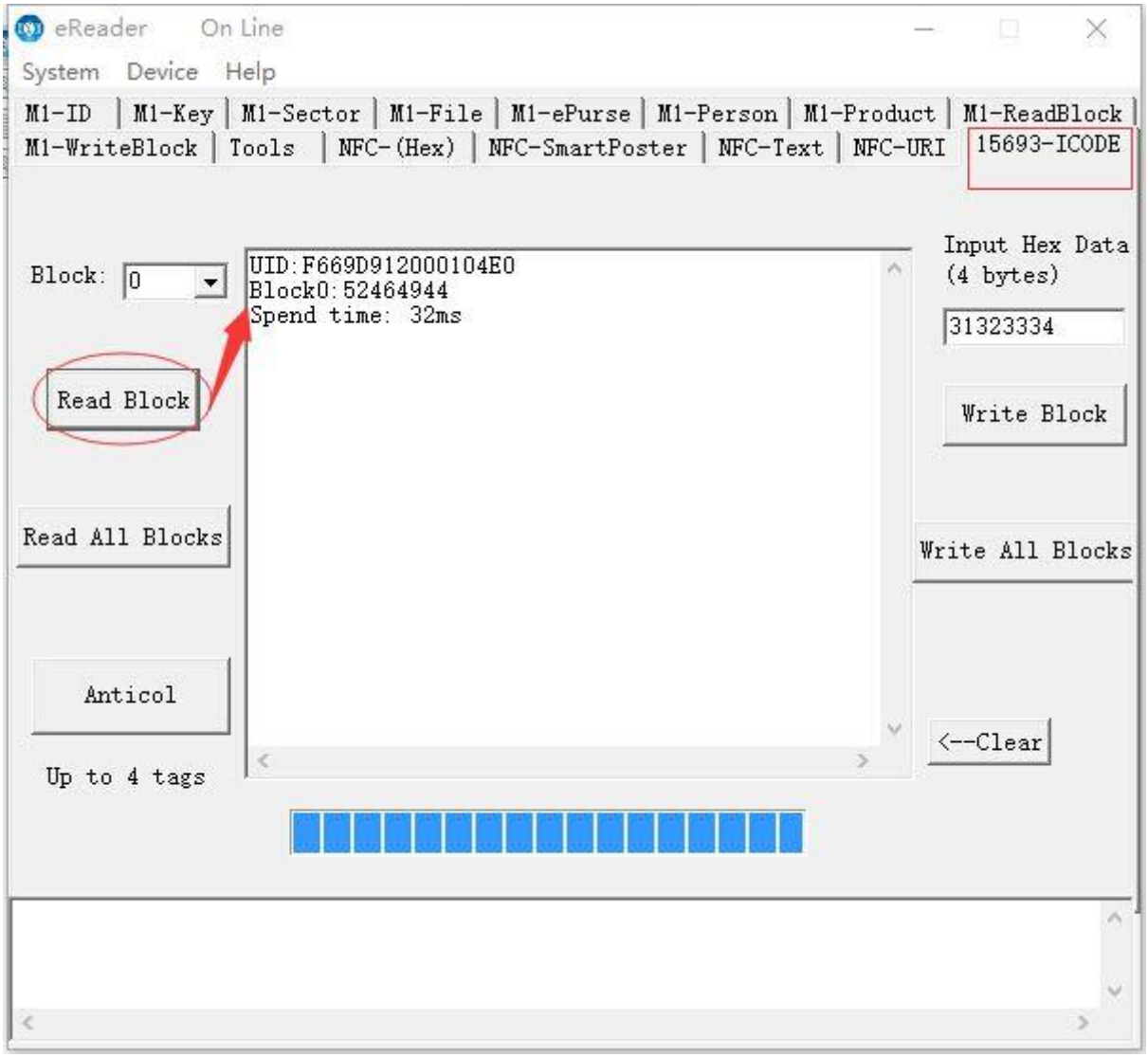


18. Bigsector

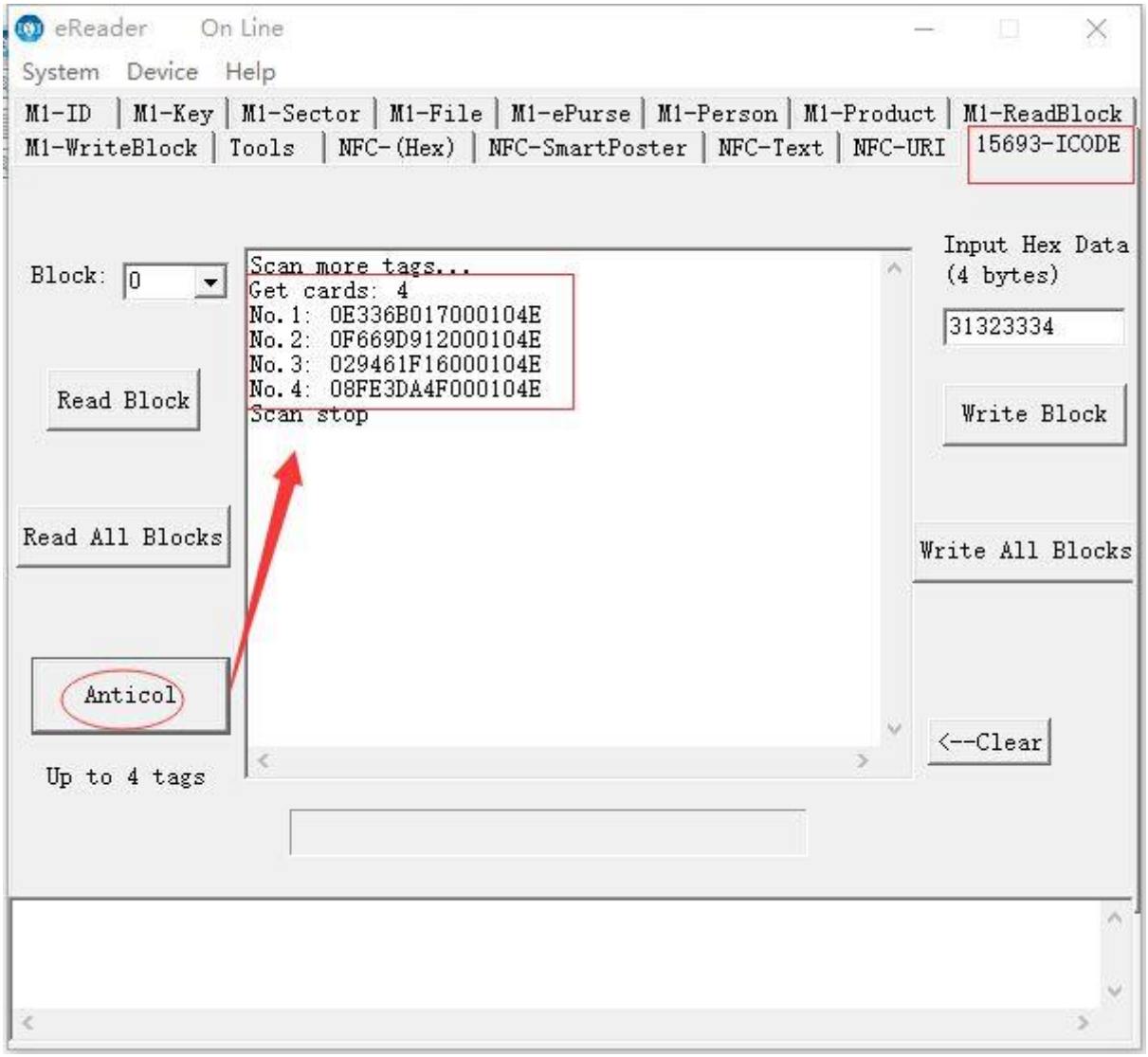


19. 15693-ICODE

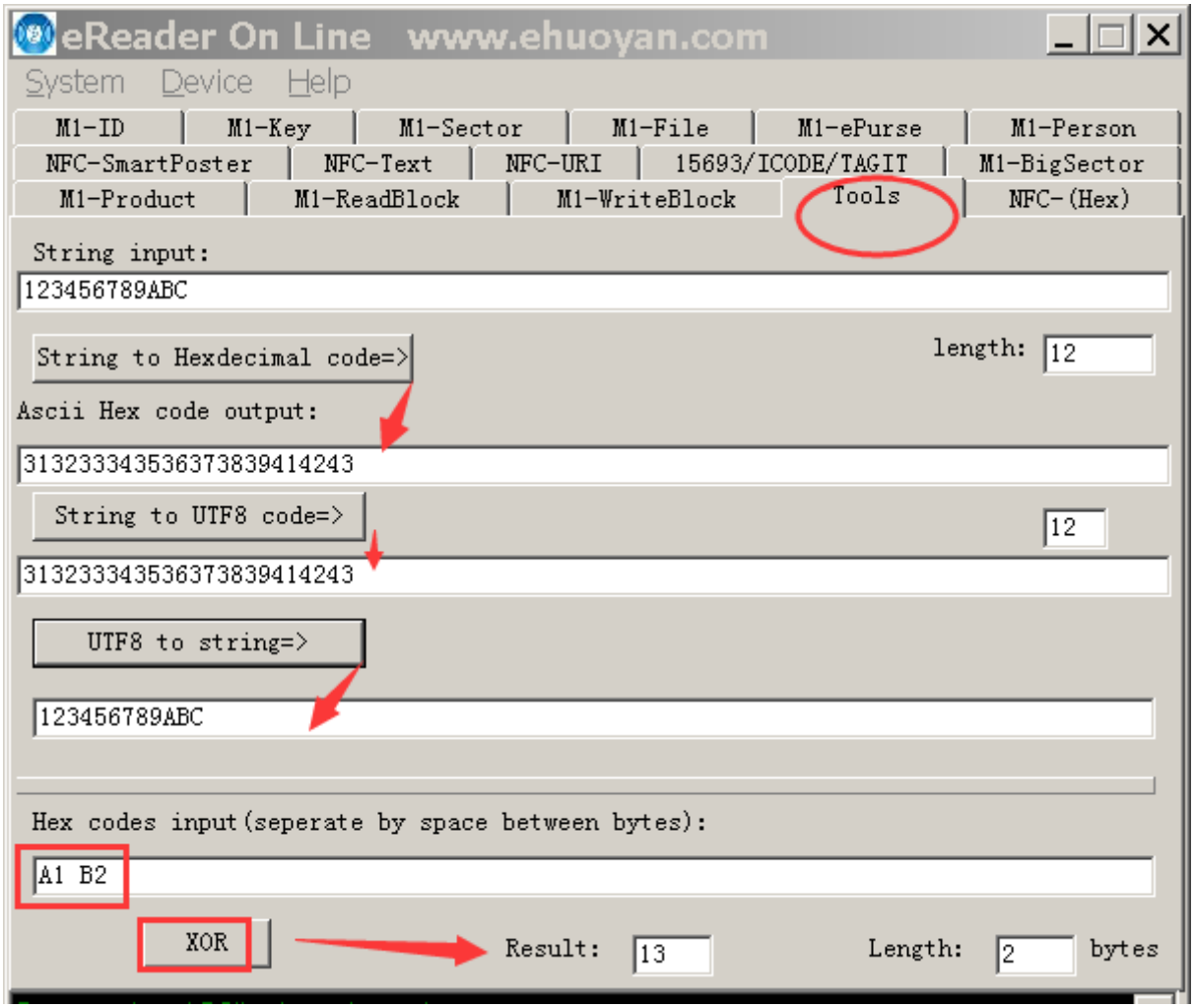
The YHY638F can read and write 15693 chip.



The Anticol function can read up to 4 tags at the same time.


eReader
On Line
System
Device
Help
M1-ID
M1-Key
M1-Sector
M1-File
M1-ePurse
M1-Person
M1-Product
M1-ReadBlock
M1-WriteBlock
Tools
NFC-(Hex)
NFC-SmartPoster
NFC-Text
NFC-URI
15693-ICODE
Block:
0
Scan more tags...
Get cards: 4
No.1: 0E336B017000104E
No.2: 0F669D912000104E
No.3: 029461F16000104E
No.4: 08FE3DA4F000104E
Scan stop
Input Hex Data
(4 bytes)
31323334
Read Block
Write Block
Read All Blocks
Write All Blocks
Anticol
<--Clear
Up to 4 tags

20. Tools



Since 2008, made RFID/NFC readers and tags.

More RFID and NFC products please contact us.

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