



Focus on RFID core technology

Hopeland USB desktop reader Writer software user manual C#

Shenzhen Hopeland Technologies co. Ltd.

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1 Summary

1.1 Summary of content

This document is written for the basic use of writer software designed for USB desktop reader (HL7206A2A). The running environment of writer software is Windows platform .NET Framework 4.0.

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1.2 Open software

Double-click the icon  **CardIssuerSoftware.exe** under the program directory to open the software initialization interface. As shown in figure 1-1.

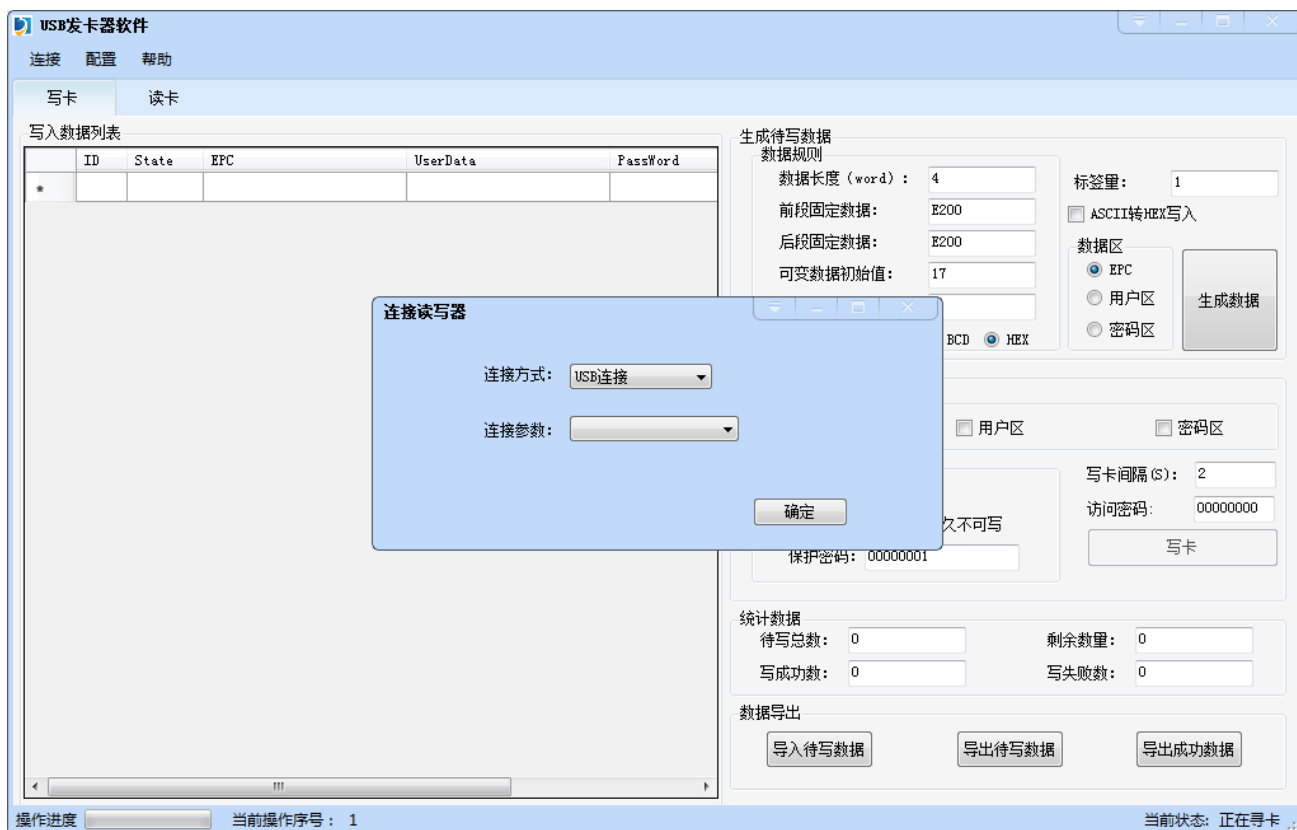


Figure 1-1

1.3 Software language

1.3.1 Simplified Chinese

Click "configuration" - "language" - "中文" (simplified) in the toolbar to change the desktop writer software language to Chinese, and the software will automatically restart. After restarting, the reader needs to be connected again. As shown in figure 1-1

1.3.2 English

Click "configuration" - "language" - "English" on the toolbar to change the software language of desktop reader to English, and the software will restart automatically. After restarting, the reader needs to be connected again. As shown in figure 1-3

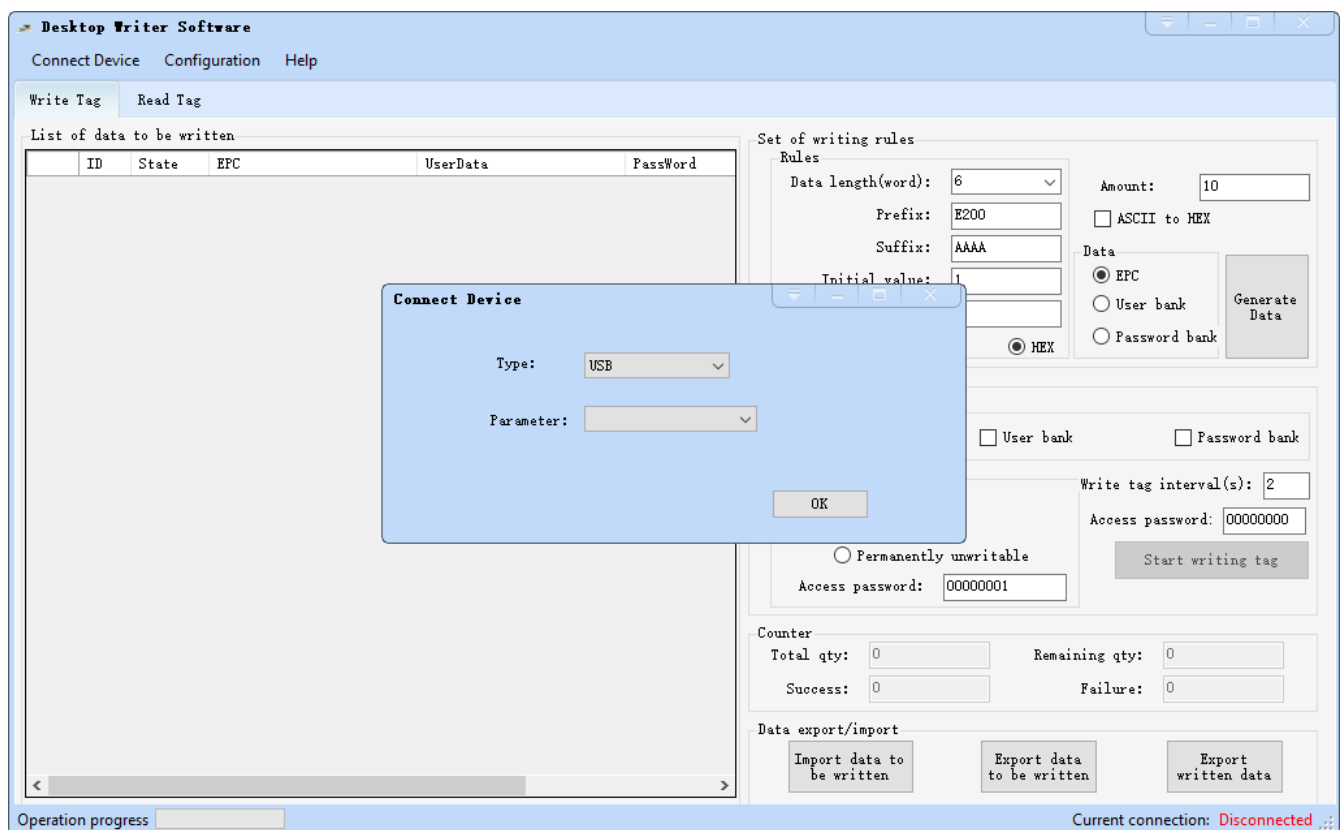


Figure 1-3

2 Connect reader

2.1 USB communication connection

Click "connect" - "USB(U)" to open the USB connection interface as shown in figure 2-1

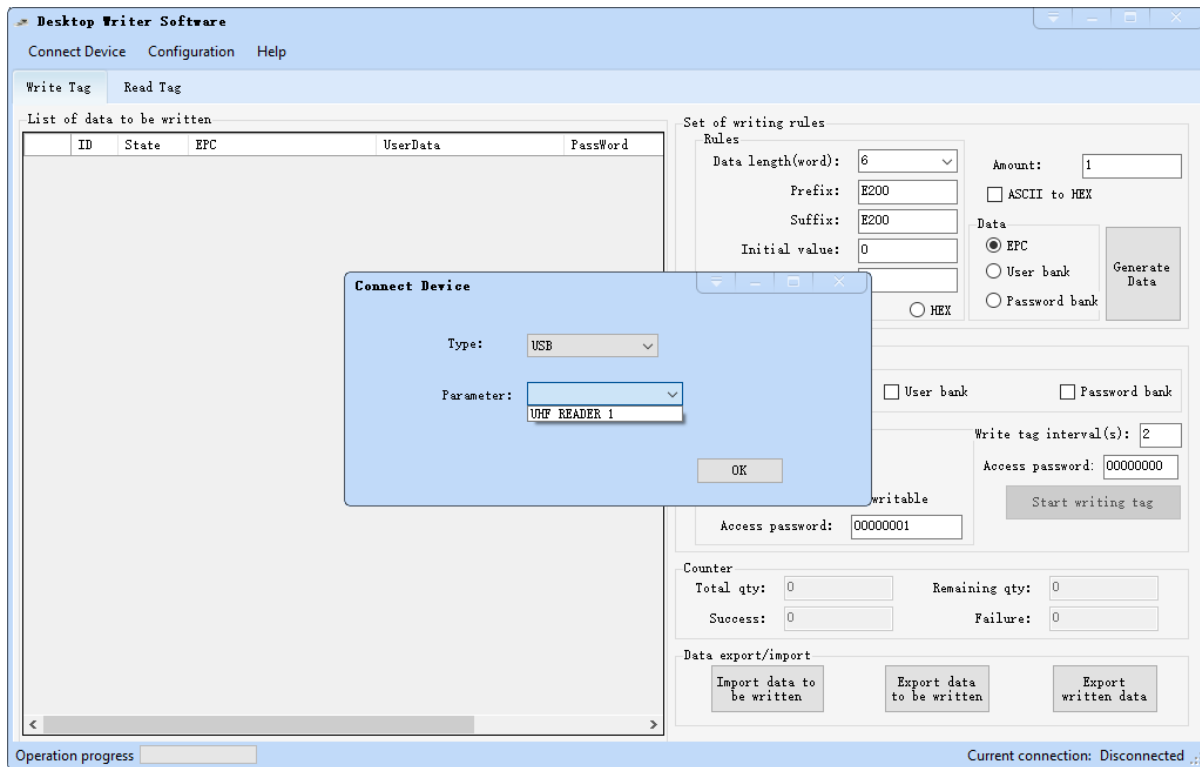


Figure 2-1

Select the corresponding USB connection parameter to connect. After connected, the current connection interface will be automatically closed and enter the main form as shown in figure 2-1

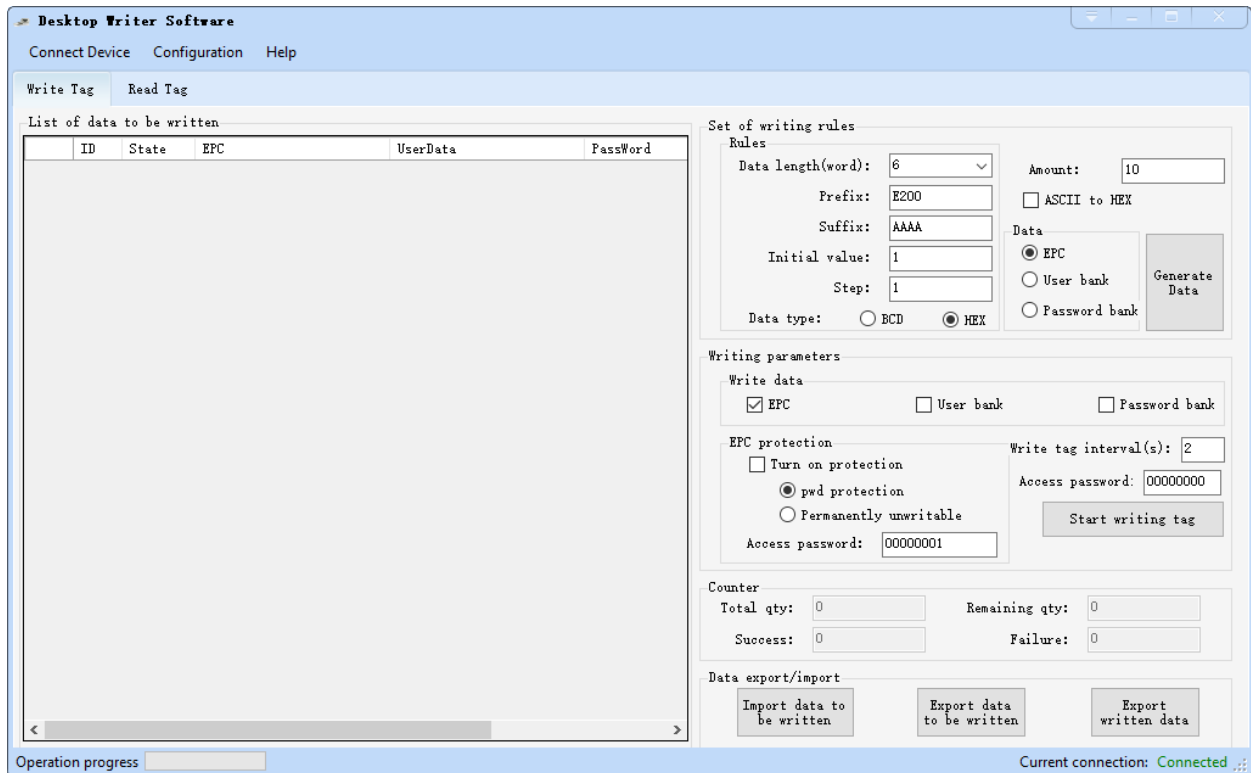


Figure 2-2

3 Write tag

3.1 Generate data to be written

3.1.1 Parameter description

Customize the parameter rules that generate the data to be written, as shown in figure 3.1

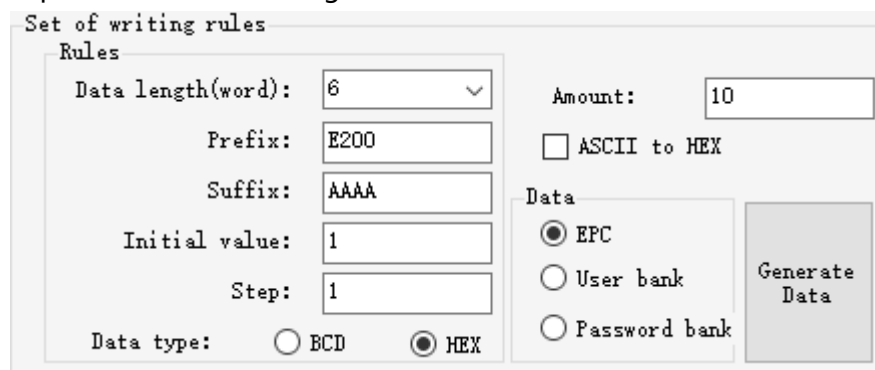


Figure 3-1

Data length: the total length of the generated data

Prefix: Fixed data at the beginning of the data to be written (fixed and unchanged)

Suffix: Fixed data at the end of the data to be written (fixed and unchanged)

Variable data initial value: the initial value of the generated data

Variable data step value: the iteration value that generates the data

Variable data type: data in BCD (decimal) format or HEX format

Amount: the number of generated data

ASCII to HEX: encoding in ASCII format when writing data

Data area: Which data area of the RFID tag will be written from the generated data

3.1.2 Generate data

After filling in the parameters of Set of writing rules, click the button of Generate Data, data will be generated according to user-defined rules and displayed on the interface. See figure 3-2

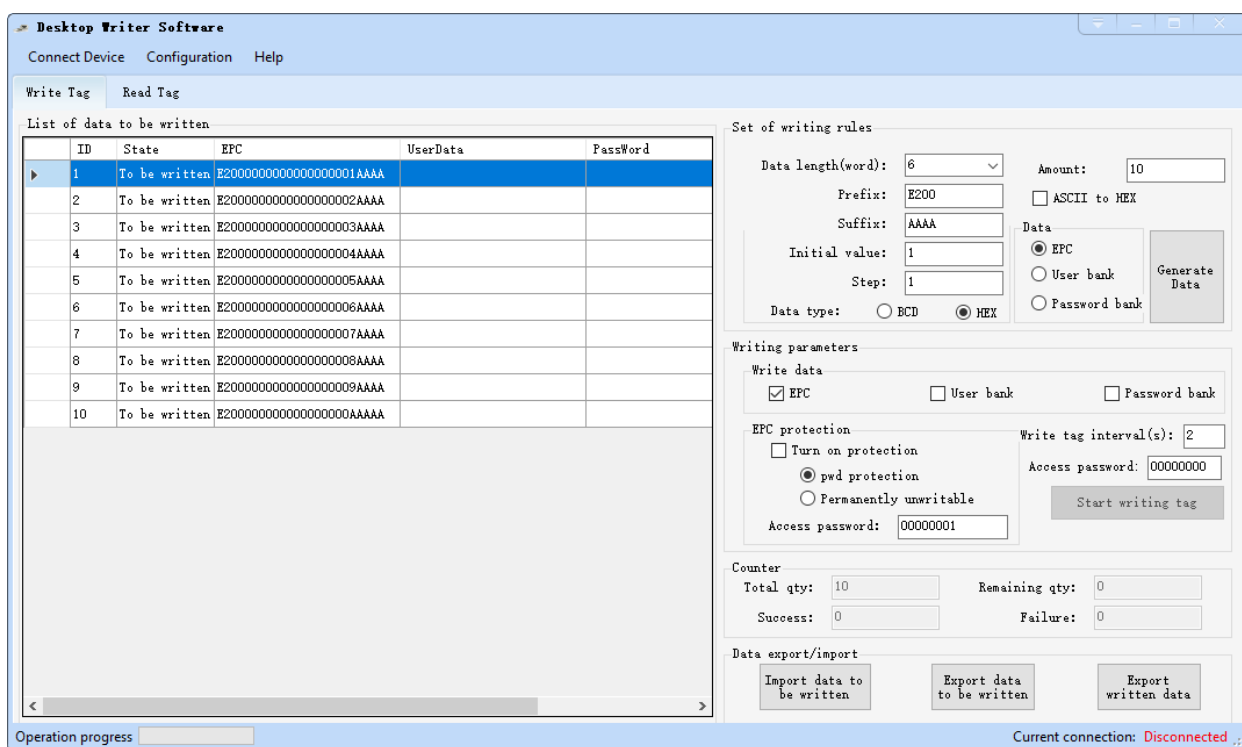


Figure 3-2

3.2 Write tag

3.2.1 Writing parameters

Writing parameters, such as data area, EPC protection, write tag interval and access password, should be selected before writing card. See figure 3-2

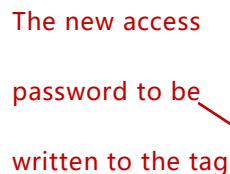


Figure 3-3

3.2.2 Write tag

In the case that data to be written is generated already, click **Start writing tag** button, according to the Write tag interval and the writing status of the current tag, take away the written tag from the reader, and put on a new tag.

When all the data to be written is written, the interface will prompt the completion of tag writing, as shown in figure 3-4

Note: for the list of data to be written in the same batch, the label will not be written twice. If the label that has been written needs to be written again, the data needs to be regenerated for the second batch of writing.

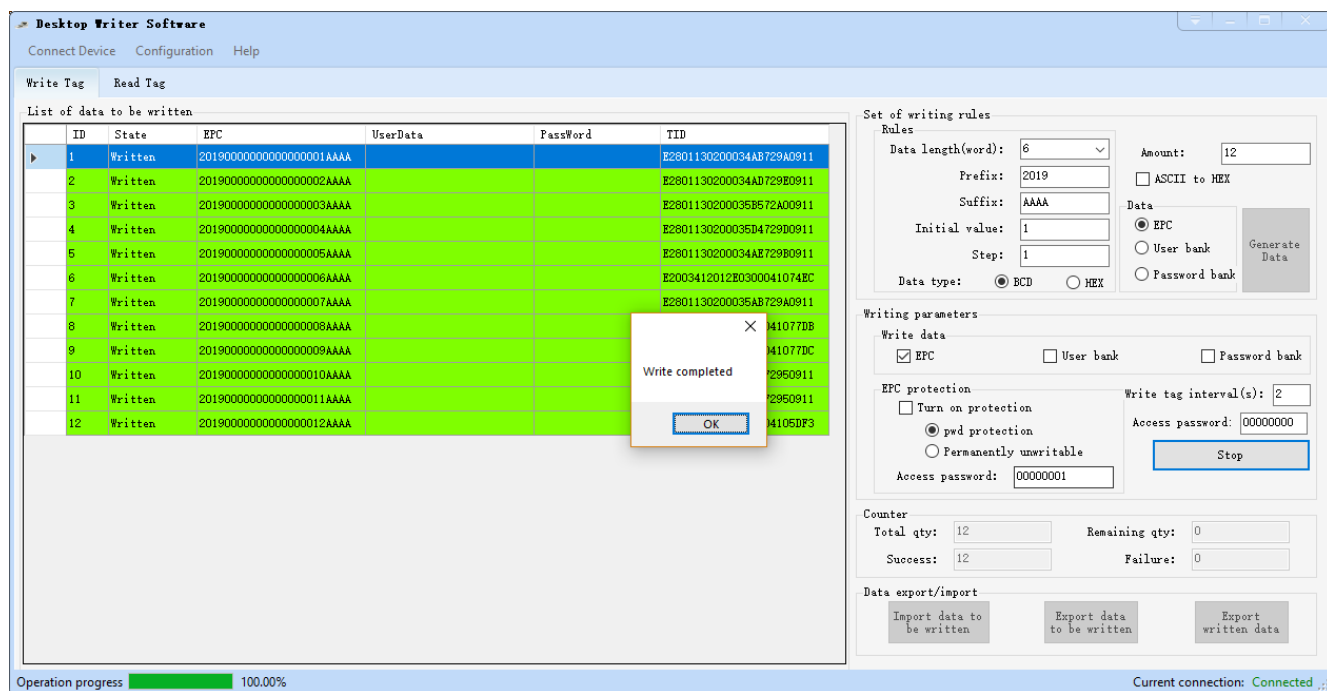


Figure 3-4

4 Read tag

4.1 Reading parameters setting

Before reading tag, parameters such as the reading area and the data length should be configured. See figure 4-1

Reading parameters

Reading area

☐ TID

Model:

Length(word):

☐ User bank

Start address(word):

Length(word):

☐ Password bank

Start address(word):

Length(word):

Interval of reading tag(ms):

☐ Access password:

ASCII conversion:

Read Tag

Figure 4-1

4.2 Start reading card

After setting the reading parameters, Click Read card (single read mode), and the software will add the data read by the desktop reader to the interface to display, as shown in figure 4-2



5.1 Reader configuration

Reader configuration

RF parameters

Frequency band: GB, 920~925MHz

RF output power(dBm): 20

Tag type

☒ 6C ☐ 6B ☐ GB

Get Set

Figure 5-1

5.2 USB HID Keyboard Settings

Configure the data area, filter time, and suffix character and other parameters for the USB HID keyboard

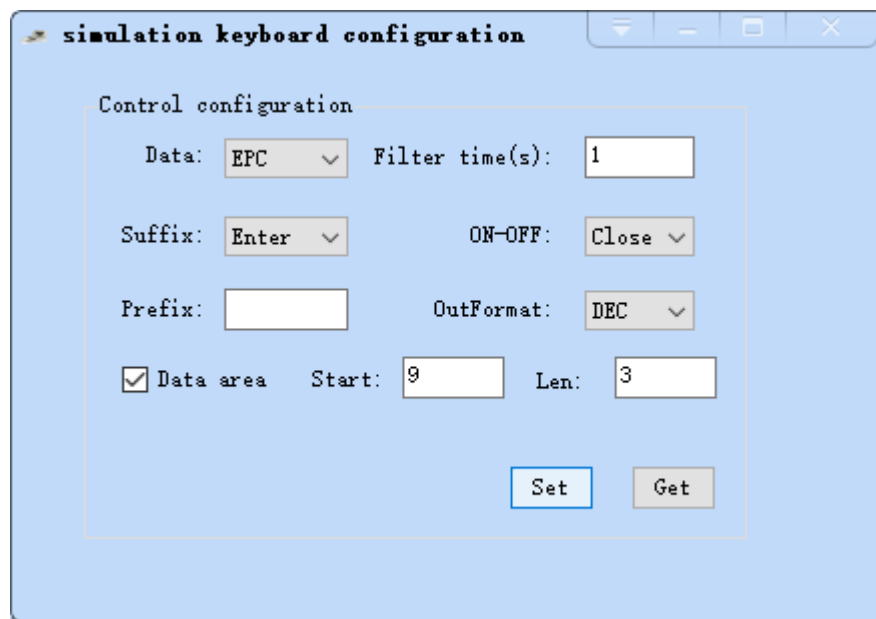


Figure 5-2

For example, if we want to simulate the wiegand data that the controller received from integrated reader, we can set the HID keyboard parameters as below.

Data: EPC

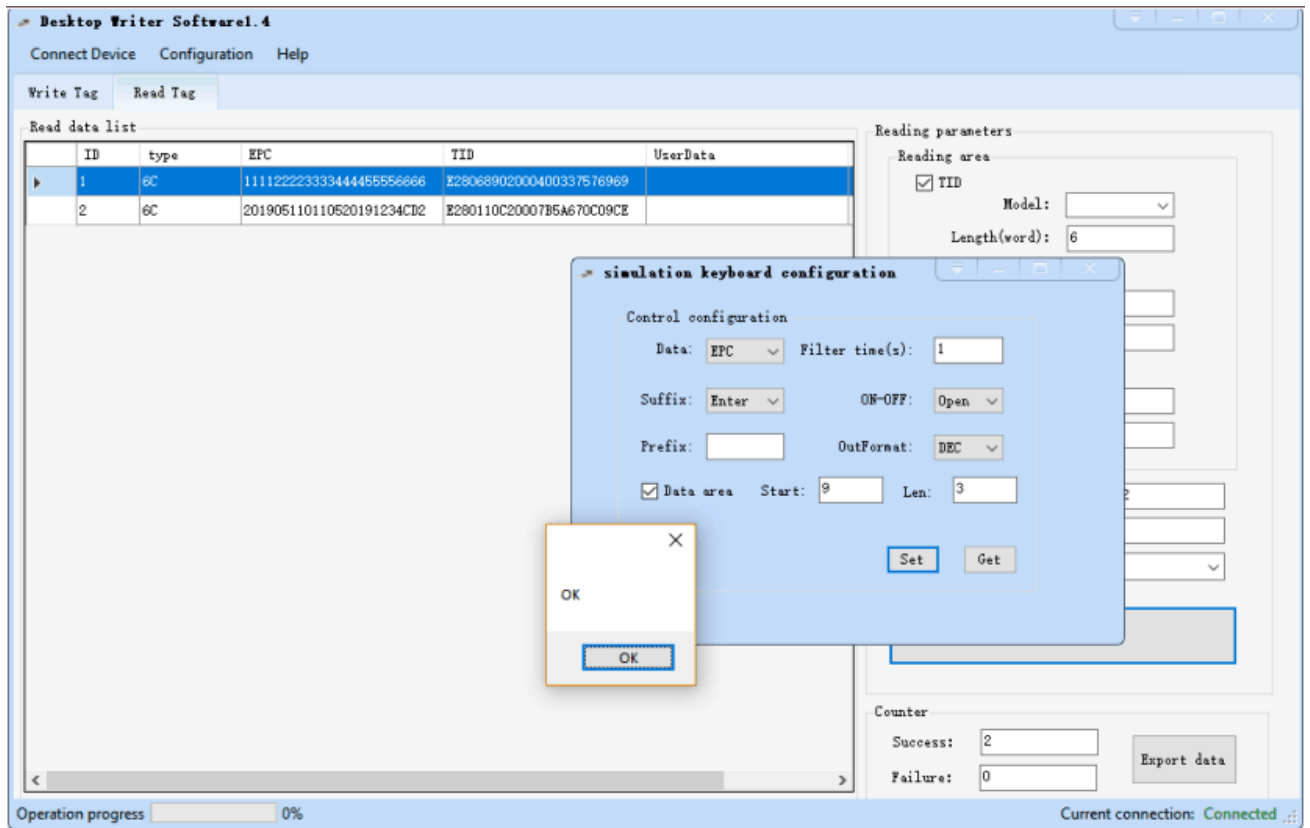
Output format: DEC (decimal digits)

Data area(Unit is byte, 1 byte equals to 2 hex numbers): Start: 9 Length:3

Two tags(We set the last 6 hex numbers of EPC as the wiegand output data):

One's EPC is: 111122223333444455556666

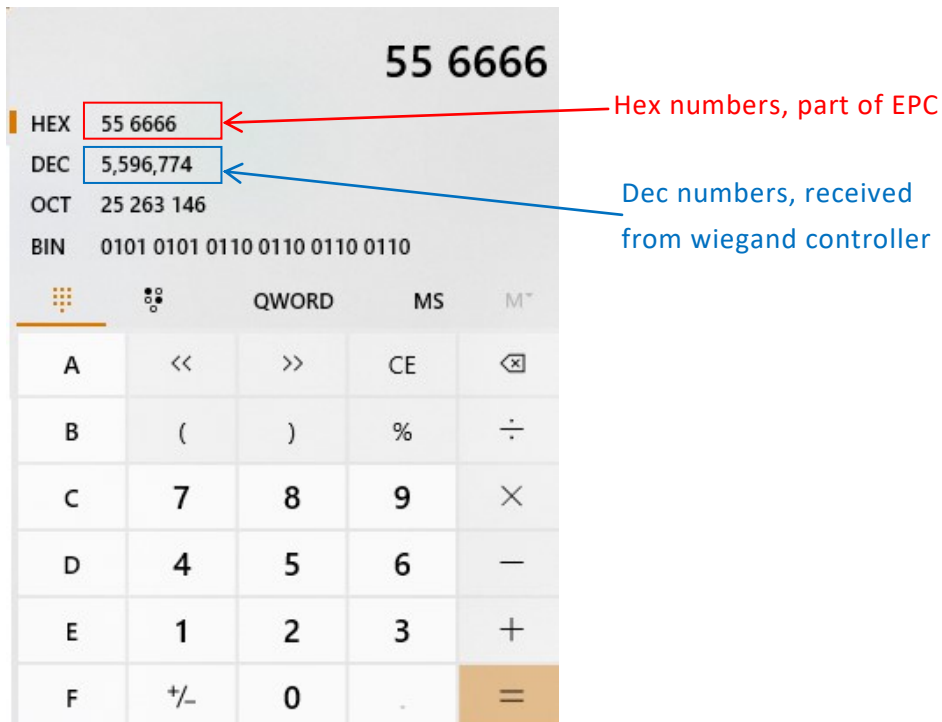
Another's EPC is: 201905110110520191234CD2



The HID keyboard output data as below:

5596774

2313426



6 Help

6.1 Get device information

Get the relevant information of the desktop reader as shown in figure 6-1

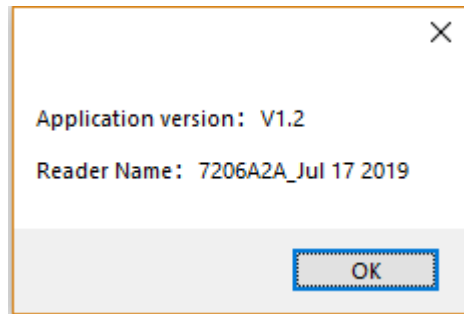


Figure 6-1

6.2 Get the device serial number

Get the serial number of the device. See figure 6-2

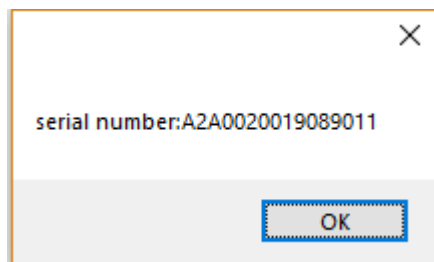


Figure 6-2

7 Import \ out data

7.1 Import data to be written

Click the button of **Import data to be written**, select the CSV file to be imported, and import the data into the program.

7.2 Export data to be written

Click the button of **Export data to be written**, select the file storage location, and export the data to the CSV file at the specified location.

7.3 Export the written data

Click the button of **Export written data**, select the file storage location, and export the data to the CSV file in the specified location.

7.4 Export read data

Click the "Export data" button in the interface of Read Tag, select the file storage location, and export the data to the CSV file in the specified location.