

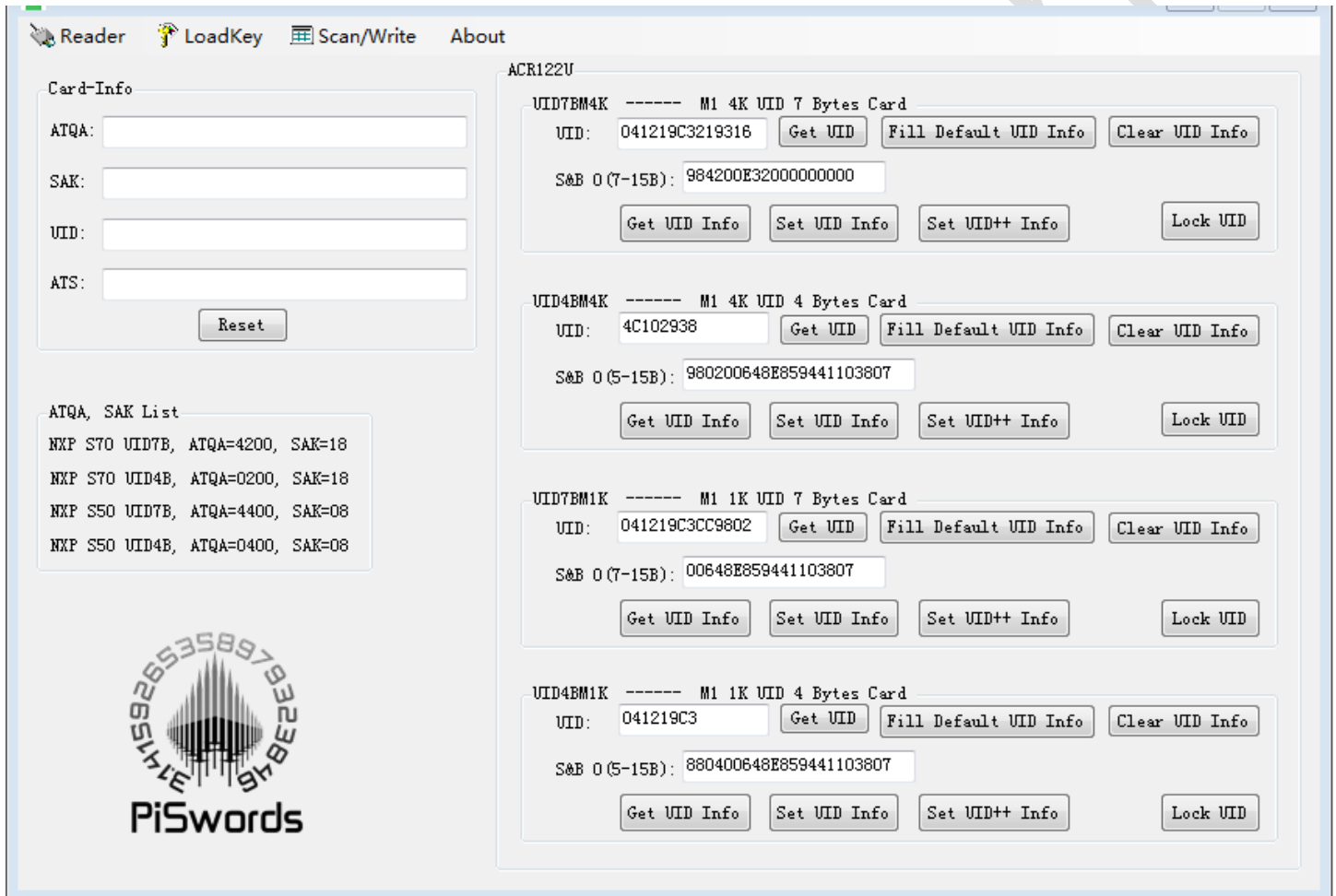
Mifare software manual

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1. Operation steps for modifying card number

Open the software



2. Select acr122u reader and writer

Click the reader menu to open the select reader window and select the acr122u reader

The screenshot shows the PiSwords software interface. The 'Reader' menu is highlighted with a red arrow and the text '1. click reader'. A 'Readers' dialog box is open, showing a list of readers with 'ACS ACR122 0' selected. A red arrow points to this selection with the text '2. select acr122 Reader'. Below the dialog box, a red arrow points to the '确定' (Confirm) button with the text '3. Confirm'. The main interface displays card information for an 'ACR122U' reader, including UID and S&B values. The PiSwords logo is visible in the bottom left corner.

3. Modify UID

There are three ways to modify uid number:

Mode 1: the user enters a new card number and updates it directly. It is suitable for IC card with user specified card number.

Mode 2: read the original card number and write it into the new card. Suitable for IC card copy.

Mode 3: add 1 to the card number and write it into the new card. Suitable for serial IC card.

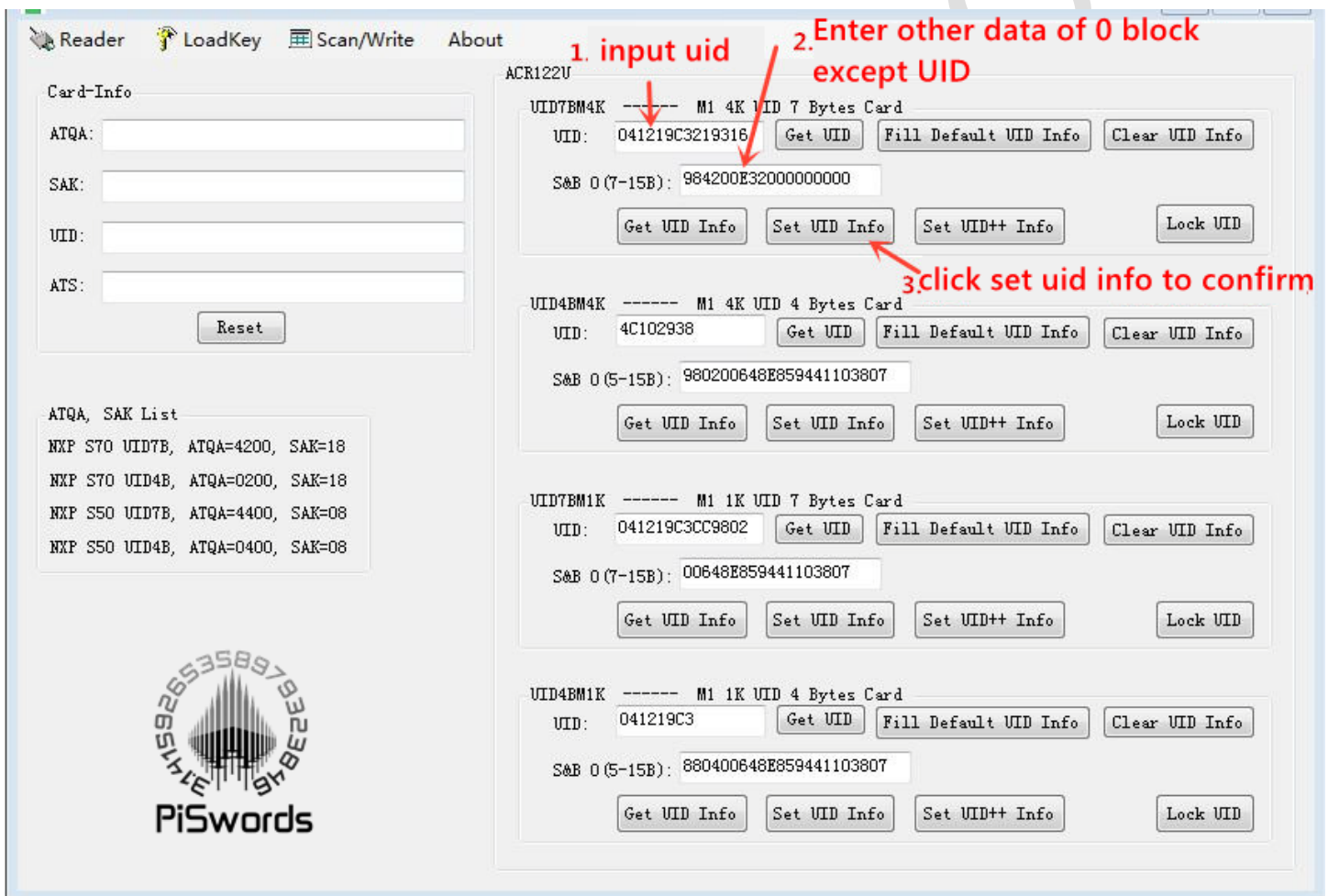
The following is an example of modifying the S70-7UID card to demonstrate three operations of modifying the card number:

Note: when the UID is modified successfully, the card does not leave the reader and directly reads the UID again, the UID you read may be wrong. The correct way is: after each modification of the UID, the card needs to be taken away from the reader and put back on the reader again. At this time, you can read the right new UID.

Note: Each time you operate the card, if the ACR122U reader emits intermittent 3 beeps, the green light flashes 3 times, indicating that the operation was successful. This audible and visual alarm is more convenient for users to quickly operate, and it is more convenient for users to identify whether the card is successfully read or written.

3.1 Method 1: The user enters a new card number and directly updates Steps:

1. Enter the 7-byte card number (hexadecimal, 14 digits) in the UID text box.
2. Enter other factory information in the Sector 0 Block 0 text box (whether the customer needs to change it according to the needs, or use the default value).
3. Click the Set UID Info button to modify the card number information.



3.2 Method 2: Read the original card number and write it to the new card

Description: Place the original card on the ACR122U reader and click the Get UID button. If the card number is successfully read, the card number displayed in the text box is the card number of the original card. On the writer, click the Set UID Info button to write the original card number into the new card.

step:

1. Place the original card on the ACR122U reader
2. Click the Get UID button
3. Enter other plant information (optional)
4. Remove the original card
5. Put the new card on the ACR122U reader
6. Click the Set UID Info button



3.3 Method 3: The card number is incremented by 1 and written into the new card.

Software operation principle: Read the card number from the text box, then add 1 to the card number, and then write the new card after adding 1 to the card.

For example: when the user enters the card number 041219C3219316 in the text box, and then clicks the Set UID ++ button, the card number 041219C3219317 is written into the card, and the card number has been successfully written so far; then put it into a new card, if the Set UID ++ button is pressed again, The card number 041219C3219318 is written in the new card; in this way, repeat the operation, put the new card, and press the Set UID ++ button to make a serial IC card.

The screenshot shows the PiSwords software interface. At the top, there are menu items: Reader, LoadKey, Scan/Write, and About. On the left, there is a 'Card-Info' section with input fields for ATQA, SAK, UID, and ATS, and a 'Reset' button. Below this is an 'ATQA, SAK List' table:

ATQA	SAK
NXP S70 UID7B, ATQA=4200, SAK=18	
NXP S70 UID4B, ATQA=0200, SAK=18	
NXP S50 UID7B, ATQA=4400, SAK=08	
NXP S50 UID4B, ATQA=0400, SAK=08	

At the bottom left is the PiSwords logo. The main area displays information for four cards, each with a 'UID' and 'S&B' field and several buttons: 'Get UID', 'Fill Default UID Info', 'Clear UID Info', 'Get UID Info', 'Set UID Info', 'Set UID++ Info', and 'Lock UID'. Red arrows and text annotations highlight the 'Set UID++ Info' button for the first card, with the text '1. Input UID' pointing to the UID field and '2. click set uid++ info to confirm' pointing to the button.

4. Lock card number operation

Note: The operation of locking the card number is permanent. After the card number is locked, the card number can never be modified. Please confirm that the card number has been modified correctly before performing this operation to lock the card number. If you want to modify the card number multiple times, you do not need to perform this operation to lock the card number.

Reader LoadKey Scan/Write About

ACR122U

Card-Info

ATQA:

SAK:


UID:

ATS:

Reset

ATQA, SAK List

- NXP S70 UID7B, ATQA=4200, SAK=18
- NXP S70 UID4B, ATQA=0200, SAK=18
- NXP S50 UID7B, ATQA=4400, SAK=08
- NXP S50 UID4B, ATQA=0400, SAK=08



UID7BM4K ----- M1 4K UID 7 Bytes Card

UID: 041219C3219316

S&B 0 (7-15B): 984200E32000000000

UID4BM4K ----- M1 4K UID 4 Bytes Card

UID: 4C102938

S&B 0 (5-15B): 980200648E859441103807

UID7BM1K ----- M1 1K UID 7 Bytes Card

UID: 041219C3CC9802

S&B 0 (7-15B): 00648E859441103807

UID4BM1K ----- M1 1K UID 4 Bytes Card

UID: 041219C3

S&B 0 (5-15B): 880400648E859441103807

click Lock UID to confirm