

Instructions to use a card reader with the biozoom app

Biozoom provides an app to make measurements with the biozoom scanner. The dynamic vitality check app allows using webviews for all pages. It also allows to connect optical code readers and contactless cardreaders.

This instruction explains how to configure a specific reader to be used with the biozoom apps.

The reader described is the ACR1552U which is made by the company “advanced card systems” (<https://www.acs.com.hk/en/products/575/acr1552u-usb-nfc-reader-iv/>). This reader was tested with the software and works with the software.

The reader can read the ID-code of the presented card and send it in hexadecimal text format to the ID-Input field of the app.

Step 1: Download configuration tool

Please download the configuration tool from the following website:

<https://www.acs.com.hk/en/products/575/acr1552u-usb-nfc-reader-iv/>

Step 2: Install the configuration tool

Use the supplied installer and follow the instructions.

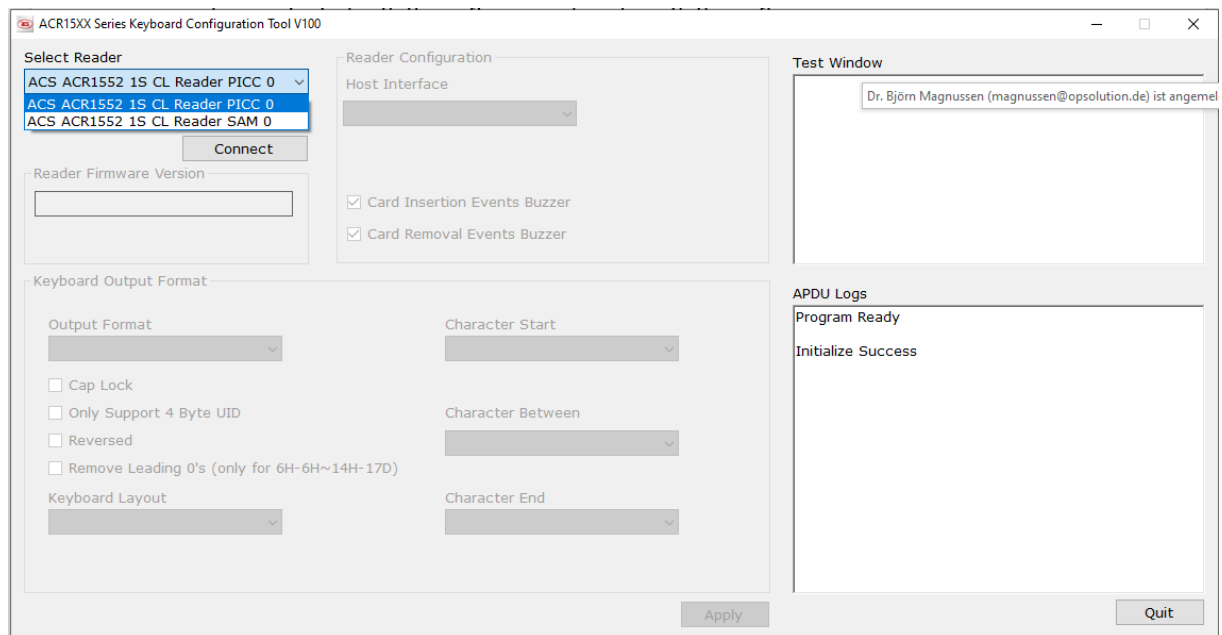
Step 3: connect card reader

Plug the card reader into the PC

Step 4: start the tool

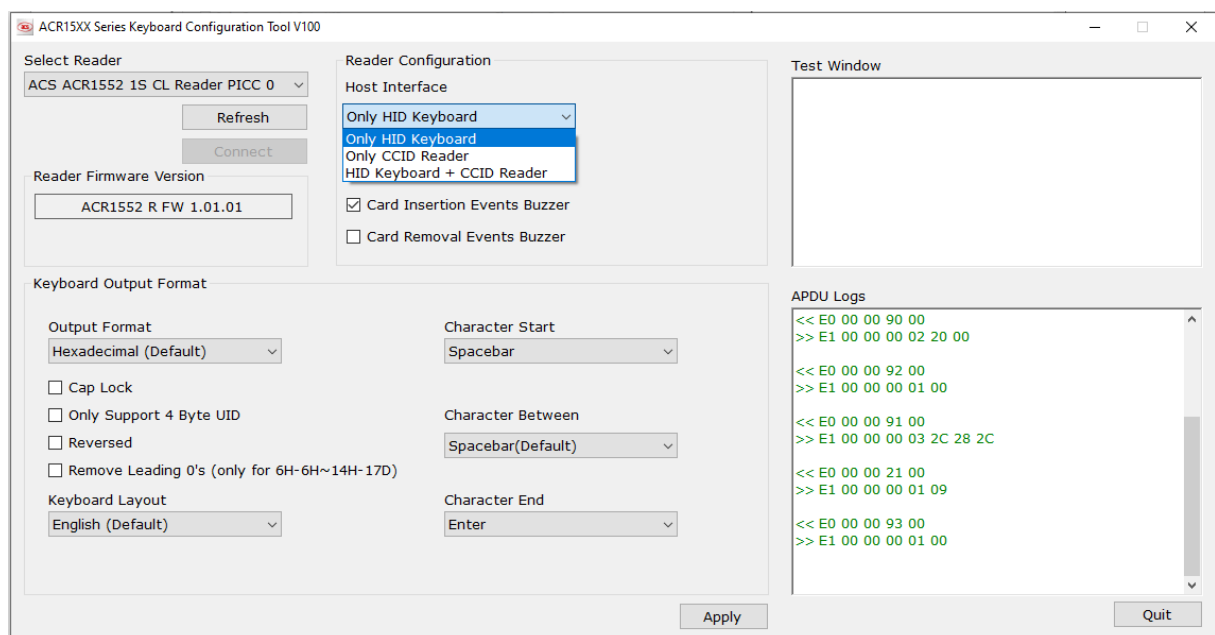
Open: ACR15XX Series Keyboard Configuration Tool V100.exe

Step 5: Select the type of reader you have purchased



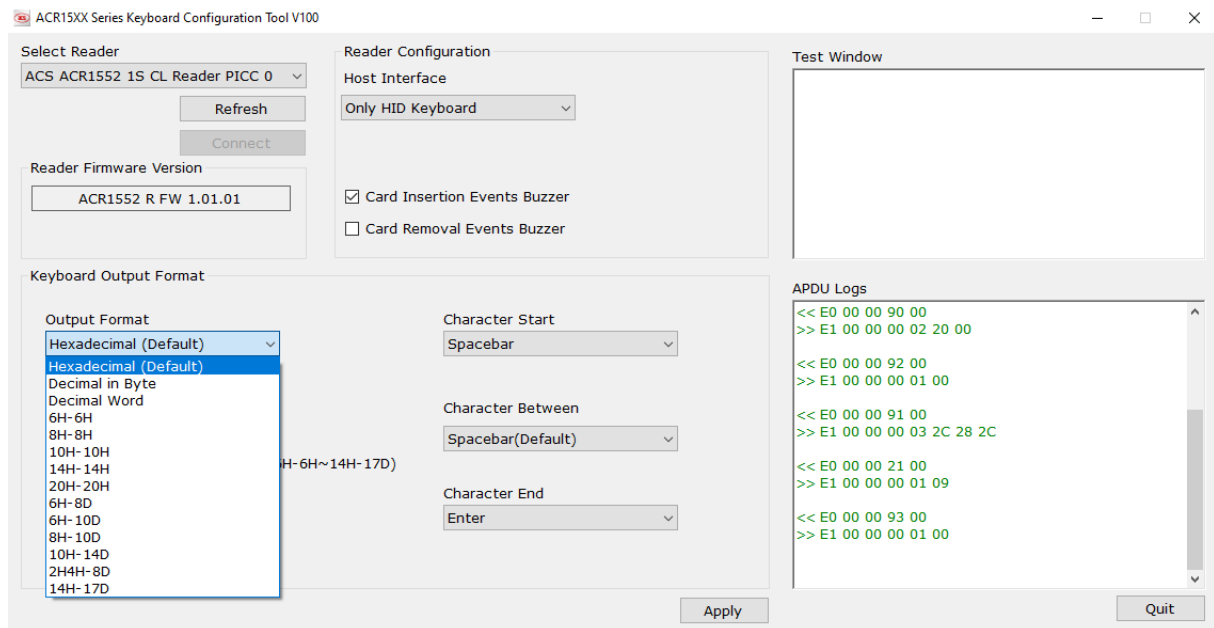
Select the ACS ACR1552 1S CL Reader PICC 0 and click connect.

Step 6: select HID mode



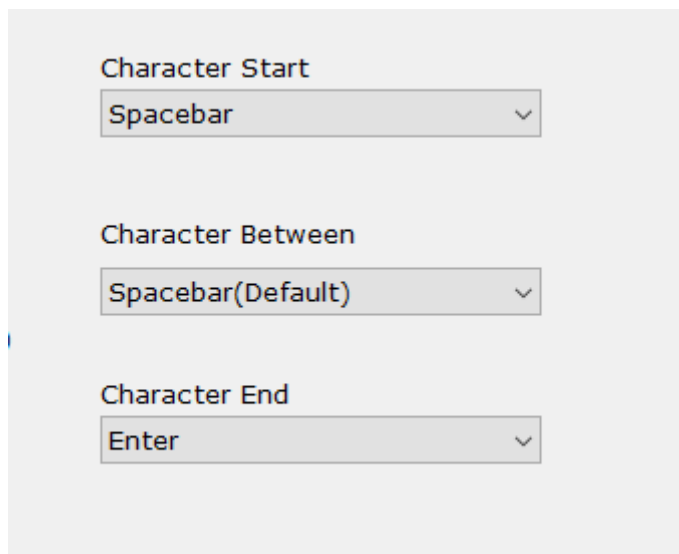
Select the dropdown field “Host interface” and set it to “Only HID Keyboard”

Step 7: select Output Format



Set the field “Output Format2 to “Hexadecimal”

Step 8: set the characters for “Start”, “End” and “Between”



Set “start” and “between” to “Spacebar”.

Set “End” to “Enter”

Step 9: select the boxes for the output format

☐ Cap Lock
☐ Only Support 4 Byte UID
☐ Reversed
☐ Remove Leading 0's (only for 6H-6H~14H-17D)

Keyboard Layout

English (Default) ▼

Make sure all boxes are unchecked and the keyboard layout is English.

Step 10: Beeping

☒ Card Insertion Events Buzzer
☐ Card Removal Events Buzzer

Please select the Beep as you like it.

Step 11: Click Apply

ACR15XX Series Keyboard Configuration Tool V100

Select Reader: ACS ACR1552 1S CL Reader PICC 0

Reader Configuration: Only HID Keyboard

Card Insertion Events Buzzer: ☒

Card Removal Events Buzzer: ☐

Keyboard Output Format: Hexadecimal (Default)

Keyboard Layout: English (Default)

APDU Logs:

```

<< E0 00 00 90 00
>> E1 00 00 00 02 20 00

<< E0 00 00 92 00
>> E1 00 00 00 01 00

<< E0 00 00 91 00
>> E1 00 00 00 03 2C 28 2C

<< E0 00 00 21 00
>> E1 00 00 00 01 09

<< E0 00 00 93 00
>> E1 00 00 00 01 00
  
```

Apply Quit

Click Apply on the lower edge of the window.

Step 12: Disconnect the card reader

Unplug the card reader

Step 13: process the next card reader

Please go to step 3 for the next card reader.