

ACR1555U-A1 ACS Secure Bluetooth® NFC Reader

User Manual V1.02

Subject to change without prior notice

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1.0. Introduction

ACR1555U-A1 ACS Secure Bluetooth® NFC Reader combines the latest technology in the world of smart card readers with Bluetooth connectivity. This compact and wireless smart card reader brings together sophisticated technology with fresh design to meet different requirements in various smart card-based applications using Bluetooth-enabled devices, such as smart phones and tablets.

This document provides general procedures for installation of drivers and applications when using ACR1555U-A1 ACS Secure Bluetooth NFC Reader.

The ACR1555U supports two operation modes:

- NFC Card Reader
- Bluetooth HID Keyboard Emulation

When switching to HID mode, pairing (bonding) will be required to connect the device. This process differs from the connection procedure used for the NFC Card Reader. Make sure to follow the appropriate steps for establishing a connection based on the selected mode.

Description of parts



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2.0. For iOS (BLE Test Application)

2.1. Installing the BLE Test application

- 1. You can access the device library when you download the **<u>iOS BLE EVK (SmartCardIO)</u>** from the ACS website.
- 2. Using XCode application, open BLETest.xcodeproj.

			BLETest		
$\langle \rangle$				Q Search	
Favorites (6) AirDrop E Recents	٢				
Applications Control C	ACSSmartCardIO. framework	BLETest	BLETest.xcodepro j	BLETestTests	BLETestUITests
iCloud iCloud Drive Locations Network Tags Red	SmartCardiO.fram ework				

3. Transfer **BLETest.xcodeproj** to your mobile device. Choose your mobile device, and then click **Play**.

Contract Not Decision
 Contract Not

Note: Make sure that your mobile device is connected to your computer.

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2.2. Using the ACS Bluetooth demo application

This section provides a simple step-by-step procedure on how to use the ACR1555U-A1 using the BLETest application.

2.2.1. Connecting a device

Turn on the ACR1555U-A1 and enter Bluetooth mode for making it discoverable. To do this, press and hold the power button for 3sec. The Green LED will be On and Blue LED will be start Blinking. (if Green LED is on, but Blue LED is not Blinking), Follow the instruction at step 2



2. Turn on the Bluetooth mode of ACR1555U-A1 and make it discoverable. To do this, press the mode button 3 sec for enter Bluetooth mode.



- 3. Turn on your device's Bluetooth by going to Settings > Bluetooth.
- 4. Open **BLE Test application**.
- 5. Tap Scan.



6. Select the terminal type ACR1555U-A1



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7. Choose the reader to pair your iOS device with, then tap **Done**.



8. When the pairing is successful, the main page will be displayed.



2.2.2. Getting the battery level

To get the battery status, tap Get Battery Level. The status should be displayed as part of the logs.



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2.2.3. Transmitting an APDU command

To transmit APDU command:

1. Connect the mobile device to mac and locate the App folder "BLETest" in finder.

•••	< > scripts	≔≎	m• ∆ ⊘	©• Q
喜好項目	名稱	修改日期		種類
① 下載項目	acos3.txt	26/9/2017 下午 4:24	226 byte	純文字文件
AirDrop	🗋 mifare.txt			純文字文件
🕗 最近項目				
🙏 應用程式				
🕜 kenli				
Creative Clo				
iCloud				
🚞 Apps Devel				
🛆 iCloud				
▶ 文件				
□ 桌面				
□ 共享				

2. Drag and drop the acos3.txt and mifare.txt from script folder into "BLETest" folder

												Q
	Phone iPhone 14 Pro	Max • 255.87	GB (98	GB可用) · 9	2% 🗭							
		一般	音樂	影片 電視留	目書籍	相片	檔案	資料				
名稱				大小					修改日期			
~ 🔝 в	LETest											
	acos3.txt			226 by	te				2017年	9月26	日下午4	:24
	mifare.txt			410 by	te				2017年	9月27	日下午2	:59
相片		Арр		文件與資料								同步
-												

- 3. Under Apps section, click on **BLETest app** and add a text file (.txt) containing the APDU commands.
- 4. Tap a contactless smart card on the ACR1555U-A1 reader
- 5. In the demo application on the mobile device, tap **Script File**, and then locate the .txt file to run.

11:55		ull 🗢 944
K BLE Test	Select File	
acos3.txt		
mifare.txt		

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6. Go back to the main page then Tap **Transmit** button. The Response APDU will be displayed as part of the logs.

BLE Test Scan	
Control Code 3000	
Script File acos3.txt >	
Get Battery Status	
Get Battery Level	
Get Device Information	
Hide Card State	
Transmit	
Control	
Disconnect	
Command: 80 20 07 00 08 41 43 4F 53 54 45 53 54 6A 81 Bytes Sent : 13 Bytes Received: 2 Transfor Time : 334.46 ms Transfor Rate : 44.85 bytes/second	
90 00 Error: Unexpected response Disconnecting the card (ACR1555U-A1-001002 PICC)	

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3.0. For Android (BLE Test Application)

3.1. Installing the BLE Test application

1. Connect your mobile device to the computer.



- 2. In the internal storage of your device, create a folder where the ACR1555U-A1 BLETest will be placed.
- 3. You can access the device library by downloading the <u>Android BLE EVK (SmartCardIO)</u> from the ACS website.
- 4. In the Android library, copy the **BLETest-0.6.0.apk** and the **test scripts(.txt)** files to the previously created folder.

	> This PC > Wilguers > Internal	snared storage 🔹 temp
📌 Quick access	BLETest APK File	BTDemo APK File
E. Desktop	🖈 📃 1.69 MB	1.34 MB
🖊 Downloads	*	

- 5. Disconnect your mobile device from the computer. Locate the **BLETest-0.6.0.apk** using a file manager application.
- 6. To start the installation, tap the **BLETest-0.6.0.apk** file.



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7. Complete the action using **Package Installer**.

^{46*} atl atl		爸 ⁽) ≵64% ● 3:49 PM
٢	BLE Test	
Do you u	want to install an update t data will not be lost. It do	o this existing application? Your es not require any special access.
	CANCEL	INSTALL

- 8. A prompt will ask for hardware control access. Tap Install to proceed.
- 9. Once the installation is complete, you can now open the BLE Test application.

"all all		🍅 🏹 🕇 64% 💌 3:49 PM
٥	BLE Test	
		App installed.
	DONE	OPEN

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3.2. Using the ACS Bluetooth demo application

3.2.1. Connecting a device

1. Turn on the ACR1555U-A1 and enter Bluetooth mode for making it discoverable. To do this, press and hold the power button for 3sec. The Green LED will be On and Blue LED will be start Blinking. (if Green LED is on, but Blue LED is not Blinking), Follow the instruction at **step 2**



2. Turn on the Bluetooth mode of ACR1555U-A1 and make it discoverable. To do this, press the mode button 3 sec for enter Bluetooth mode.



- 3. Turn on your device's Bluetooth by going to **Settings | Bluetooth**.
- 4. Open **BLE Test application**.
- 5. Tap Scan.



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6. Select the terminal type ACR1555U



7. Available devices will be displayed. Tap the drop down button to show the complete list of available devices



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3.2.2. Transmitting an APDU command

To transmit APDU commands:

- 1. Tap a contactless smart card on the ACR1555U-A1 reader
- 2. In the demo application on the mobile device, tap Select File, and then locate the .txt file to run.

BLE Te	st			÷.		
Terminal: ACR1555U-A1-001002 PICC						
	SCAN	LIST	DISCON	NECT		
Protocol:	🗹 T=0 🔽	T=1				
Control C	ode: <u>3500</u>					
Script:acc	s3.txt					
	SELECT FILI	TRANS	MIT CON	ITROL		

3. Go back to the main page then tap Transmit.



Note: The application is designed to get the ATR of the card before sending the APDU commands.

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4.0. For Windows® (USB Mode and Bluetooth HID mode)

4.1. Installing ACS CCID PC/SC driver (USB)

To install the driver:

- 1. Run the ACS CCID PC/SC Driver Installer (USB)
- 2. The Setup Wizard will appear. To start the installation, click OK.

📌 Setup		×
	Choose your language:	
	English ~	
	ОК	

3. Then click Next.

ACS CCID PC/SC Drive	r 1.0.5.0 Setup			• □	×
acs	Welcon 1.0.5.0	me to the ACS) Setup Wizard	CCID PC/	SC Driv	er
	The Setur PC/SC Dr to remove Cancel to	o Wizard allows you to Ver 1.0.5.0 features ar It from your compute exit the Setup Wizard.	change the w e installed on r. Click Next t	ay ACS CC your comp o continue	ID Juter or or
		Back	Next	C	ancel

4. Click **Next** to install the driver to the default destination, located at **X:\Program Files\Advanced Card Systems Ltd\ACS CCID PCSC Driver 1.0.5.0**, with **X** being your local Windows drive.

NCS CCID PC/SC Driver 1.0.5.0 Setup	—		×
Destination Folder			
Click Next to install to the default folder or click Change to choose an	other.		
Install ACS CCID PC/SC Driver 1.0.5.0 to:			
C:\Program Files\Advanced Card Systems Ltd\ACS CCID PCSC Driver	1.0.5.0\		
Change			
Back	lext	Cano	el

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5. Click Install.

ACS CCID PC/SC Driver 1.0.5.0 Setup	,		-		×
Ready to install ACS CCID PC/SC	Driver 1.0.5.	0			
Click Install to begin the installation. C settings. Click Cancel to exit the wizard	lick Back to revie J.	w or change any o	f your in:	stallation	
	Back	Install		Cance	el

6. Wait while the driver installs. Once the installation is complete, click **Finish**.

ACS CCID PC/SC Driver 1	.0.5.0 Setup		37		×
acs	Completed th 1.0.5.0 Setup	e ACS CCID Wizard	PC/SC D	Priver	
	Click the Finish but	on to exit the Setu	p Wizard.		
11 2					
¥ _					
		Back Fin	sh	Cance	1

- 7. Download and launch the ACS QuickView Tool.
- 8. Connect your ACR1555U using a USB cable.
- 9. Locate the ACR1555U in the list and click to select it.
- 10. Tap your card to read its parameters.

ACS QuickView Tool					-	×
Connected Readers		Reader Details				
Slot List ACS ACR1255U-J1-032521 1 ACS CCID USB Reader 0 ACS ACR1555 1S CL Reader PICC 0 ACS ACR1555 1S CL Reader SAM 0	Card Status Not Present Not Present Present Not Present	Vendor Name: Device Name: Device System Name: Firmware Version: Serial Number: Default Clock: Default Clock: Default Clota Rate: Interface Status:	ACS ACS ACR1555 15 ACS ACR1555 15 RR629-000115 5000 kHz 14337 bps Active	6 CL Reader PICC 0 6 CL Reader PICC 0 Max Clock: Max Data Rate:	13560 kHz 847500 bps	5
		Card Details Card Status: ATR: Card Type / Card Name: Current Protocol: Current EBC Encoding: Current EBC Encoding: Current D: Actual Data Rate:	Card Presented 3B 83 80 01 41 0 ACOS3 v1.31 T=1 5000 kH2 Longitudinal Red 372 1 13440	01 28 6A undancy Check		
Operating System: Windows 11 Version 23H2 10.0.22635 64	I-bit		Save Logs	Quit		? (i

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4.2. Bluetooth HID Keyboard emulation mode

Note: This procedure only applies to Windows 8 and later. Windows 7 does not support devices using Bluetooth 5.2 Bluetooth Low Energy interface.

To pair using this setup:

Turn on the ACR1555U-A1 and enter Bluetooth mode for making it discoverable. To do this, press and hold the power button for 3sec. The Green LED will be On and Blue LED will be start Blinking. (if Green LED is on, but Blue LED is not Blinking), Follow the instruction at step 2



Fig 1 Power Button

2. Turn on the Bluetooth mode of ACR1555U-A1 and make it discoverable. To do this, press the mode button 3 sec for enter Bluetooth mode.



Fig 2 Mode Button

- 3. Go to Settings 😍 choose Bluetooth & devices,
- 4. Turn on **Bluetooth**.
- 5. Click Add device

Blue	tooth & devices	
	+ Add device	
	View more device	s
*	Bluetooth	On
::: ::::::::::::::::::::::::::::::::::	Devices Mouse, keyboard, pen, audio, displays and docks, other devices	Add device

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6. In the "Add a device" pane, click on "Bluetooth" and select an ACR1555U-A1 reader for pairing.

(If you are unable to find the ACR1555 in Windows 11, proceed to step 6.)

*	Bluetooth Audio devices, mice, keyboards, phones, pens, controllers, and more	
Ģ	Wireless display or dock Wireless monitors, TVs, or PCs that use Miracast, or wireless docks	
+	Everything else Xbox controllers with Xbox Wireless Adapter, DLNA, and other devices	

7. For **Windows 11** or if you are unable to see the Bluetooth device displayed

(if you can see ACR1555U, simply skip this step and proceed to Step 8)

By default, Windows 11 is set to not show uncommon devices. Therefore, you need to switch the "Bluetooth devices discovery" to **advanced**. The Bluetooth device discovery option can be found in the Settings menu under "**Bluetooth & devices**" > "**Devices**"

Device settings		
Show notifications to connect using Swift Pair Connect to supported Bluetooth devices quickly when they're close by and in pairing mode	0	n 💽
Download over metered connections Device software (drivers, info, and apps) for new devices will download when you're on metered internet connections—data charges n	nay apply O	ff 💽
Bluetooth devices discovery When adding a Bluetooth device, Default lets you connect common accessories—choose Advanced to see all types of devices	Default	~

8. Press the Mode button to complete the Bluetooth bonding process.



The bonding process is complete when you see that the ACR1555U-A1 is connected. The Blue LED on ACR1555U-A1 will be go steady when the device is well connected.

	ACR1555U-A1 • Connected			····
--	----------------------------	--	--	------

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9. The ACR1555U-A1 will start with HID mode when bonding process complete. Please open the notepad for reading card UID.

14 1C 69 66		• +	- 0	\sim
File Edit Vi	ew			¢
14 1C 69 66				
		V.		

Notes: To config the ACR1555U as HID Keyboard Emulation mode, you will need the <u>ACS script tools</u> or <u>ACS ACR15XX keyboard configuration tool</u>. Please see the instruction on Chapter 5

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5.0. Bluetooth HID Keyboard Emulation

What is Bluetooth HID Keyboard Emulation?

Bluetooth HID Keyboard emulation is a feature of the ACR1555 card reader that allows it to function as a keyboard input device for reading Card UID.

In this mode, the card reader can read the UID from smart cards and automatically input this information into any editable text field, just like a regular keyboard. This simplifies the process of entering card data, making it quick and efficient for users.

5.1. Configuring ACR1555U for Bluetooth HID Keyboard emulation

Download Link for the tools required: https://www.acs.com.hk/en/utility-tools/

- 1. Download Software: Get the ACS ACR15XX Keyboard Configuration Tool (V201).
- 2. Connect Device: Use a USB cable to connect the ACR1555U to your computer.
- 3. Open Tool: Launch the ACR15XX Keyboard Configuration Tool.

This tool allows you to customize keyboard settings, including layout, language, and card UID reading patterns. (Please maintain the default settings.)

Select Reader	Reader Configuration	Test Window	APDU Logs
ACS ACR1255U-J1-032521 1 ~ ACS ACR1255U-J1-032521 1 ~ ACS ACR1255U-J1-032521 1 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Mode		Program Ready Initialize Success
ACS ACR1555 1S CL Reader SAM 0 ACS CCID USB Reader 0	Card Insertion Events Buzzer		
	Card Removal Events Buzzer		
UID Script			
Keyboard Output Format			
Output Format	Character Start		
Cap Lock	Character Debuger		
🗍 Only Support 4 Byte UID	character between		
Reversed			
Remove Leading 0's (only for 6H-	6H~14H-17D)		
Keyboard Layout	Character End		

4. Select Device: Choose the ACR1555U from the list and click "Connect" to read the firmware version and current settings.

Select Reader		Reader Configuration	Test Window	APDU Logs
ACS ACR1555 15 C	L Reader PICC 0 🔍	BLE HID MODE		>> E1 00 00 00 01 1F
Refresh	Connect	CCID Reader		<< E0 00 00 93 00
Reader Firmware V	ersion	Card Insertion Events Buzzer		>> E1 00 00 00 01 01
ACR1555 FV	1.02.03	Card Removal Events Buzzer		1

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5. Change Mode: In the dropdown menu, select BLE HID MODE to switch to Bluetooth HID. You can revert to CCID mode using this tool as well.

ACR15XX Series Keybo	oard Configuration Tool V201	1		- 0 >
Select Reader		Reader Configuration	Test Window	APDU Logs
ACS ACR1555 15 C	L Reader PICC 0 🗠	BLE HID MODE		>> E1 00 00 00 01 1F
Refresh	Connect	CCID Reader		<< E0 00 00 93 00
Danielas Firmunas M	and and a second se	HID Keyboard		>> E1 00 00 00 01 01
Reader Firmware v	ersion	CCID Reader		and the second se
ACR1555 FW	/ 1.02.03	Card Removal Events Buzzer		1

6. Apply Settings: Click "Apply" to save the changes, or "Quit" to exit without saving.

ACS ACHSSS IS CL Reader PICC 0 Refresh Connect HID Keyboard Rader Firmware Version ACRISSS FW 1.02.04 UID Keyboard Output Format Output Format Character Start Hexadecimal (Default) In Spacebar(Default) Reversed Spacebar(Default) Reversed Spacebar(Default) Character Between Spacebar(Default) Character Start Character Start	S 15 CL Reader PICC 0 BLE HID MODE Connect BLE HID MODE HID Keyboard Card Insertion Events Buzzer C Card Insertion Events Buzzer Card Removal Events Buzzer Connect Card Removal Events Buzzer Output Format Character Start cimal (Default) No Character Start cimal (Default) Spacebar(Default) ve Leading 0's (only for 64+64+-144+170) d Layout Character End Contervin Exter Find	ect reader	Reader Configuration	Test Window	APDU Logs
Refresh Connect HID Keyboard > Reader Firmware Version © Card Insertion Events Buzzer > ACR1555 FW 1.02.04 © Card Removal Events Buzzer > JD Card Character Start Output Format Character Start Hexadecimal (Default) No Character (Default) © Calp Lock Character Between Only Support 4 Byte UID Spacebar(Default) Reversed Spacebar(Default)	Connect HID Keyboard >>>=>>=E 00 00 00 00 00 00 00 00 00 00 00 00 ware Version © Card Insertion Events Buzzer <<	S ACR1555 15 CL Reader PICC 0 ~	BLE HID MODE	1	<< E0 01 00 4B 02 06 01
leader Firmware Version Card Insertion Events Buzzer Card Removal Events Buzzer B	ware Version C Card Insertion Events Buzzer C E 0 00 00 21 01 1F SSS FW 1.02.04 C Card Removal Events Buzzer D C Card Removal Events Buzzer Output Format Character Start Character Start Character Between Support 4 Dyte UID Character Retween Spacebar(Default) Ve Leading 0's (only for 6H-6H-14H-17D) Layout Character End Character End Character End Character Metween Support 4 Dyte UID External Spacebar(Default) Ve Leading 0's (only for 6H-6H-14H-17D) Character End Cha	Refresh Connect	HID Keyboard ~		>> E1 00 00 00 02 06 01
ACR1555 FW 1.02.04 Clard Removal Events Buzzer	SSS FW 1.02.04 Card Removal Events Buzzer Output Format	eader Firmware Version	Card Insertion Events Buzzer		<< E0 00 00 21 01 1F
JID Keyboard Output Format Output Format Hexadecimal (Default) No Character Start Hexadecimal (Default) Character (Default) Character Between Only Support 4 Byte UID Reversed Spacebar(Default)	Output Format Character Start cimal (Default) No Character(Default) ock Character Between Support 4 Dyte UID Spacebar(Default) sed Spacebar(Default) ve Leading 0's (only for 6H-6H~14H-17D) Character End t Layout Character End	ACR1555 FW 1.02.04	Card Removal Events Buzzer		
Keyboard Output Format Output Format Output Format Character Start Hexadecimal (Default) No Character(Default) © Cap Lock Character Between Only Support 4 Dyte UID Spacebar(Default) Reversed Spacebar(Default)	Dutput Format Character Start cimal (Default) No Character (Default) ock Character Between Support 4 Dyte UID Spacebar(Default) sed Spacebar(Default) ve Leading 0's (only for 64+64+-14H-17D) Character End t Layout Character End	ID			
Output Format Character Start Hexadecinal (Default) No Character(Default) © Cap Lock Character Between © Only Support 4 Byte UID Spacebar(Default) Reversed Spacebar(Default)	Format Character Start comat No Character(Default) · · · ock Character Between specebar(Default) · · · · · · sed Spacebar(Default) · · · ve Leading 0's (only for 6H-6H-14H-170) · · · · · · · · · · · · · · · · · · ·	Keyboard Output Format			
Hexadecimal (Default) v No Character(Default) v Caracter Between Only Support 4 Byte UID Spacebar(Default) v	cimal (Default) v No Character(Default) v ock Support 4 Dyte UID sed ve Leading 0's (only for 6H-6H-14H-17D) d Layout Character End Character End Enter ve Leading 0 Support S	Output Format	Character Start		
Cap Lock Character Between Only Support 4 Byte UID Reversed Spacebar(Default)	ock Character Between Support 4 Dyte UID Spacebar(Default) ~ ve Leading 0's (only for 6H-6H-14H-17D) d Layout Character End Enter A	Hexadecimal (Default) ~	No Character(Default)	*	
Only Support 4 Byte UID Spacebar(Default) Spacebar(Default)	Support 4 Byte UID Character Between sed Spacebar(Default) ~ 4 Layout Character End Fotor Spacebar(Default) ~	Cap Lock	Character Balance		
Reversed Spacebar(Derault)	sed Spacebar(beradic) v ve Leading 0's (only for 6H-6H-14H-17D) d Layout Character End Enter v	Only Support 4 Byte UID	Character Between		
	ve Leading 0's (only for 6H-6H-14H-17D) d Layout Character End Enter	C Reversed	spacebar(benauc)		
Remove Leading 0's (only for 6H-6H-14H-17D)	d Layout Character End	Remove Leading 0's (only for 6H	-6H~14H-17D)		
Keyboard Layout Character End	(Defende) Enter	Keyboard Layout	Character End		
English (Default) v Enter v	(verault)	English (Default)	Enter	~	

 Restart ACR1555U Device to activate Bluetooth HID keyboard emulation mode. Once you switch the reader mode and HID mode. The mode button will be restart the ACR1555 when you press

Notes: To switch back to NFC card reader mode, follow the instructions to clear (pairing) bonding records (Chapter 5.2), then repeat the configuration steps to select the CCID reader.

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Test you ACR1555U under Bluetooth HID keyboard emulation mode

- 1. Open the mobile system settings and navigate to Bluetooth.
- 2. Turn on your Bluetooth card reader and locate "ACR1555U-A1-XXXXXXX" in the device list.



- 3. Select the card reader and click "Pair" in the Bluetooth pairing request dialog.
- 4. Confirm the connection by pressing the mode button on the left side.
- 5. Then, open a notepad app to read the UID from the card.



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5.2. Clear Bond (Pair) record

Why you need to clear the Bond record?

Clearing the bonding records is essential to prevent unexpected reconnections. This process ensures that the ACR1555U only pairs with trusted devices, avoiding issues with previously connected devices that may interfere with the current setup. By starting fresh, you minimize connection errors and enhance overall security.

Instructions for Clearing Bonding Records on ACR1555U

Method 1

- 1. Check Bluetooth Device List:
 - On your mobile device, go to the Bluetooth settings.
 - Ensure that the ACR1555U is not listed. If it is, select it and choose "Forget" or "Remove." This will prevent automatic reconnection.

2. Disconnect ACR1555U:

- o Wait for the blue LED on the ACR1555U to start blinking, indicating that it has been disconnected.
- o Turn off Bluetooth on your mobile device to avoid the ACR1555U attempting to reconnect.

3. Clear Bonding Records:

 Press and hold the "Mode" button for about 4 seconds until the blue LED flashes quickly (4 seconds). This will remove the bonding records from the ACR1555U.

4. Connect New Device:

• The ACR1555U is now ready to pair with a new mobile device.

Method 2

- 1. Download Software: Get the ACS Script Tool.
- 2. Connect Device: Use a USB cable to connect the ACR1555U to your computer.
- 3. Open Tool: Launch the ACS Script Tool.
- 4. Here is the command to remove the bonding record. Input the command [D] E0 00 00 5B 00 and click "▶" for execute.



5. Restart the ACR1555U; it is now ready to pair with a new mobile device.