

AXIUM Toolkit

User Manual

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Version history

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V2.0.0	14/03/2023		Yihong SONG	Refactoring documents
V2.1.0	19/04/2023		Linyang WU	Add launch-app and unload command to command line.
V2.2.0	25/08/2023		Bingquan CHEN	Add device-info command to command line. Unified command abbreviation format.
V2.3.0	11/12/2023		Bingquan CHEN	Update FAQ & Server IP/Port
V2.4.0	31/01/2024		Huijun Mao	Update device-info command
V2.5.0	31/05/2024		Minjie Wu	Update Chapter 3.5
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V2.7.0	03/03/2025		Qiaoyun Hong	Add sign command to command line.

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1 Overview

AXIUM Toolkit is a global PC-side management toolkit that supports equipment such as POS terminal, mobile payment terminal. For the life cycle of payment device, it provides utilities such as software installation, state switch, maintenance, digital signature, burn image, key download. It also integrates features such as driver installation, device information view, message push. AXIUM Toolkit features training-free, multilingual, self-updated, unified identity authentication and authorization to help you manage payment devices easily and efficiently.

2 Installation and Configuration Environment

- RAM: At least 4GB
- Hard drive space: 2GB
- Operation system: Windows7/10/11 or MacOS
- Network condition: PC network can visit the following network addresses

Domain/IP	Port	Protocol
axtmp.ingenico-axcloud.net	443/8800/8801/8804/8805/8813 /8443/9809/9810/9443/19002	https
duoj76u4gxsm2.cloudfront.net	80	http
d378t86zso007r.cloudfront.net	80	http

3 Usage

3.1 Installation

3.1.1 Windows Installation

- 1) Double click AXIUM Toolkit_Setup.exe

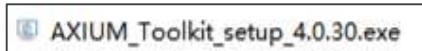


Figure 1

- 2) Read the License Agreement which consists of "AXIUM Toolkit Service Agreement" and "AXIUM Toolkit Privacy Policy", and then click "I Agree" to enter the next step.

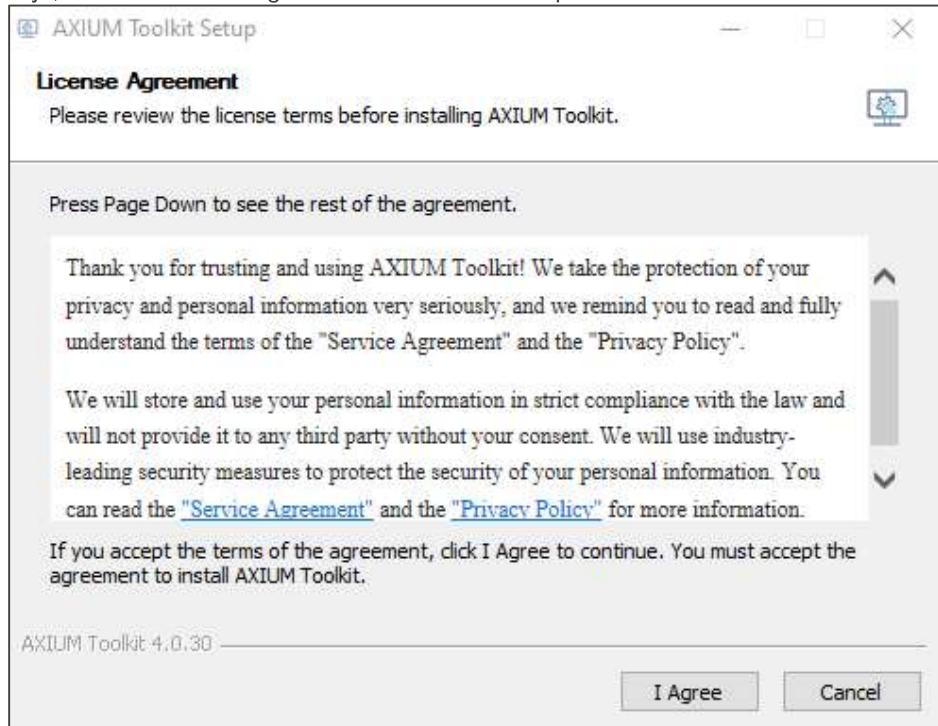


Figure 2

- 3) Select destination folder, the default one is under C drive.

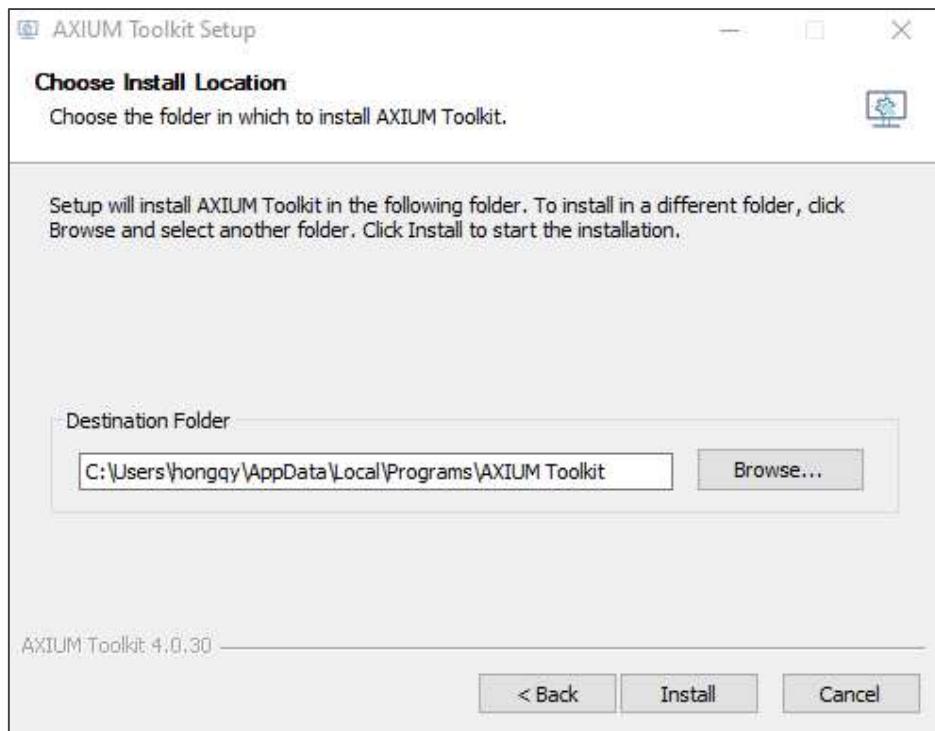


Figure 3

Note: It is recommended that the installation directory only contains the characters of 0-9, a-z, A-Z, underscores, and spaces; using other characters may cause some unpredictable problems.

4) Start installing

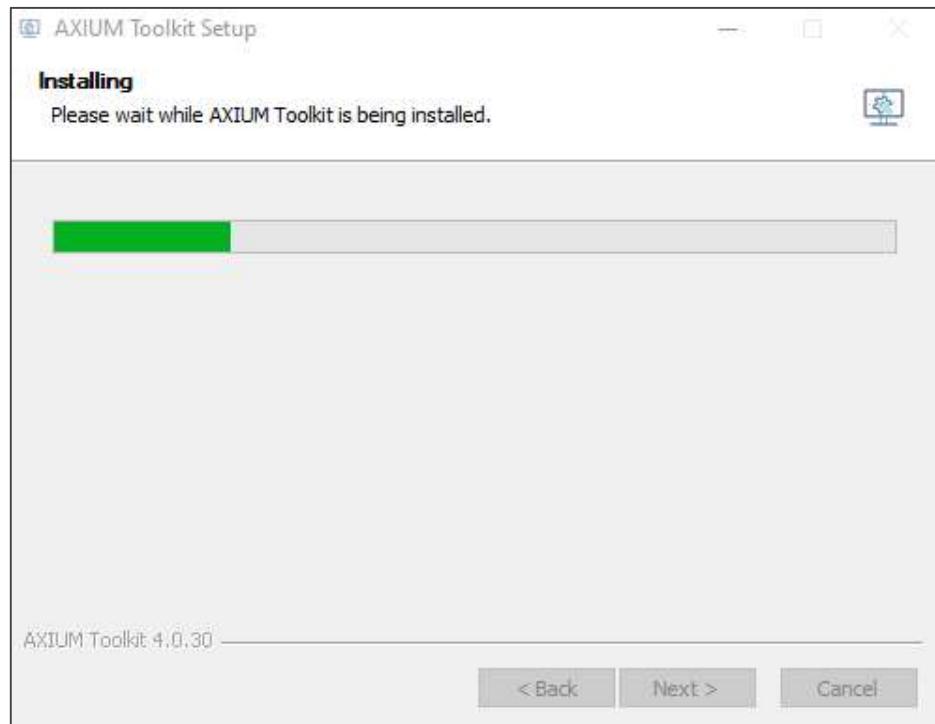


Figure 4

5) Installed

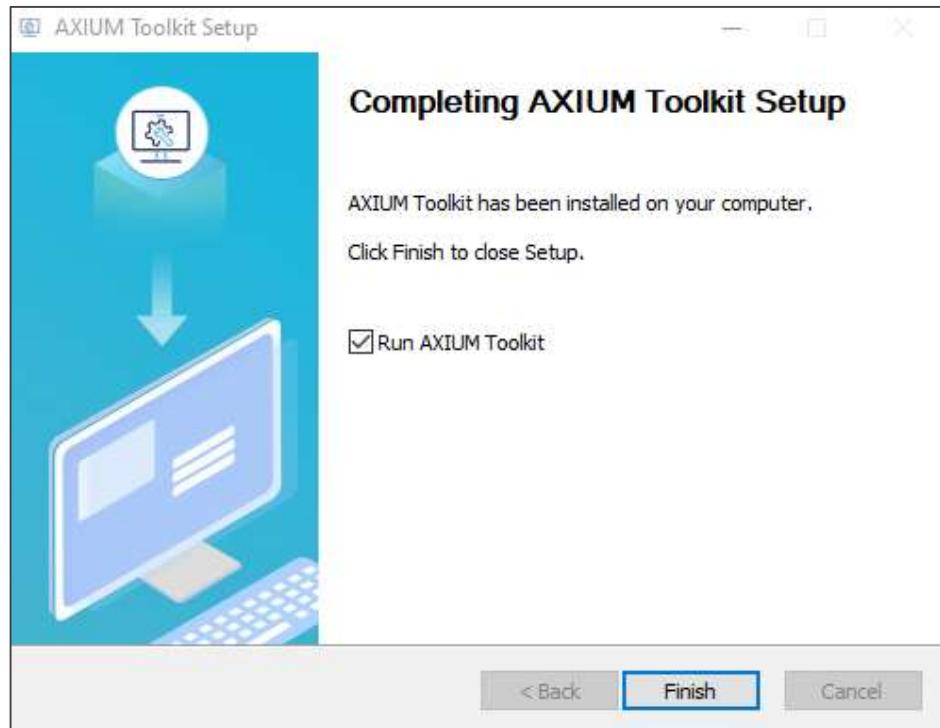


Figure 5

Note: If you have already installed an old version, you can directly overwrite the installation without opening the old version of AXIUM Toolkit, or you can uninstall the old version first and then install the new version of AXIUM Toolkit.

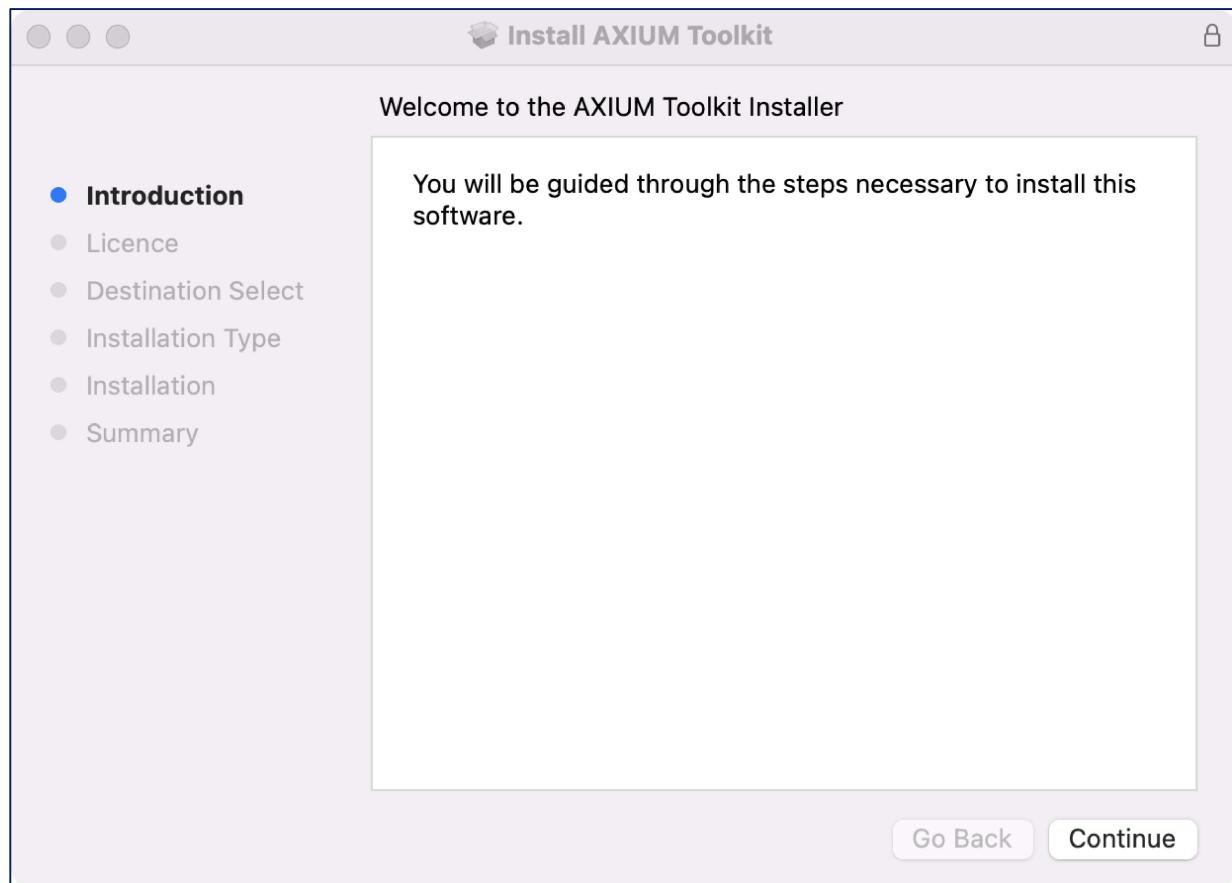
3.1.2 MacOS Installation

- 1) Double click "AXIUM_Toolkit_setup_4.x.x.pkg"



Figure 6

- 2) Read the introduction ", and then click "Continue" to enter the next step.



- 3) Read the "Software License Agreement" which mainly consists of "AXIUM Toolkit Service Agreement" and "AXIUM Toolkit Privacy Policy", and then click "Continue" and "Agree" to enter the next step.

 Install AXIUM Toolkit

Software Licence Agreement

- Introduction
- Licence**
- Destination Select
- Installation Type
- Installation
- Summary

Thank you for trusting and using AXIUM Toolkit! We take the protection of your privacy and personal information very seriously, and we remind you to read and fully understand the terms of the "Service Agreement" and the "Privacy Policy".

We will store and use your personal information in strict compliance with the law and will not provide it to any third party without your consent. We will use industry-leading security measures to protect the security of your personal information. You can read the "["Service Agreement"](#)" and the "["Privacy Policy"](#)" for more information.

Print... **Save...** **Go Back** **Continue**

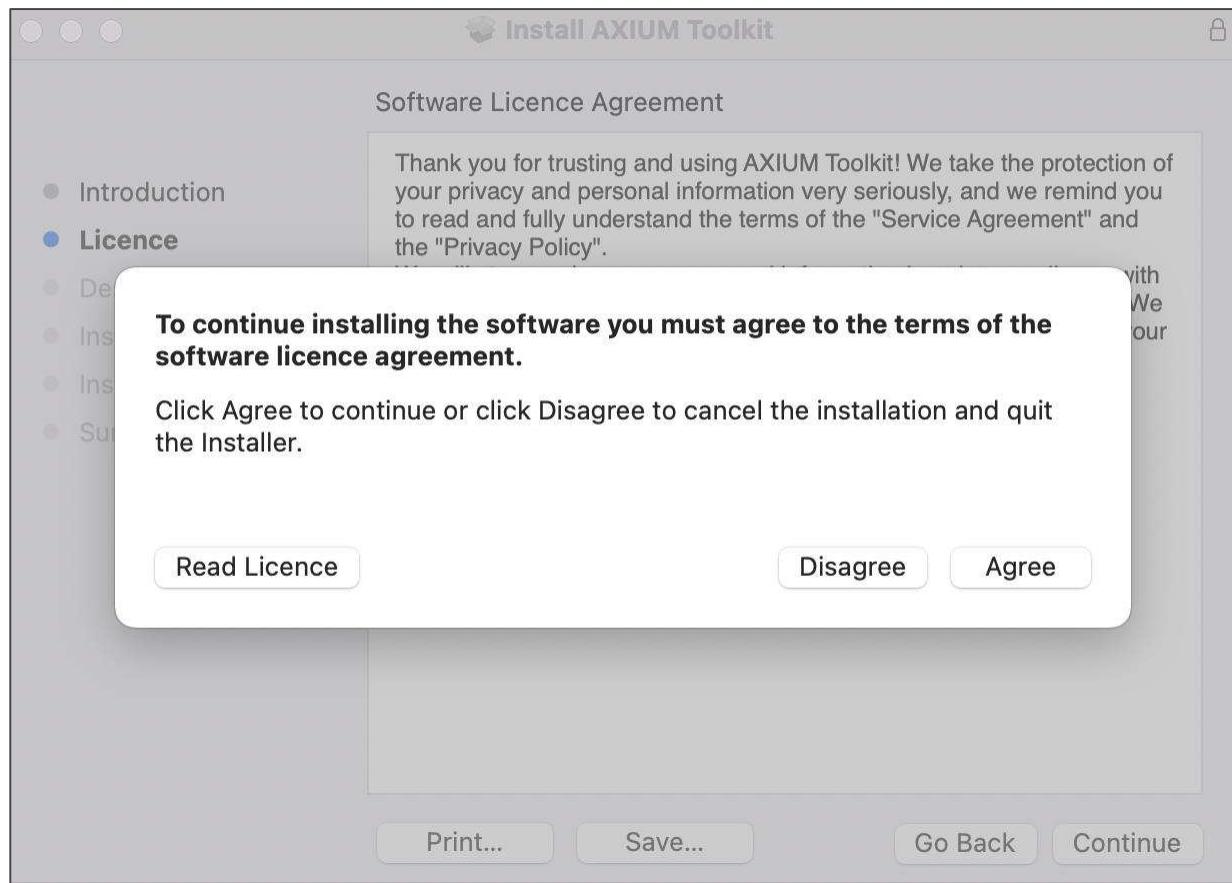


Figure 7

- 4) In the "Installation Type" step, use the default location and click "Install" to enter the next step.

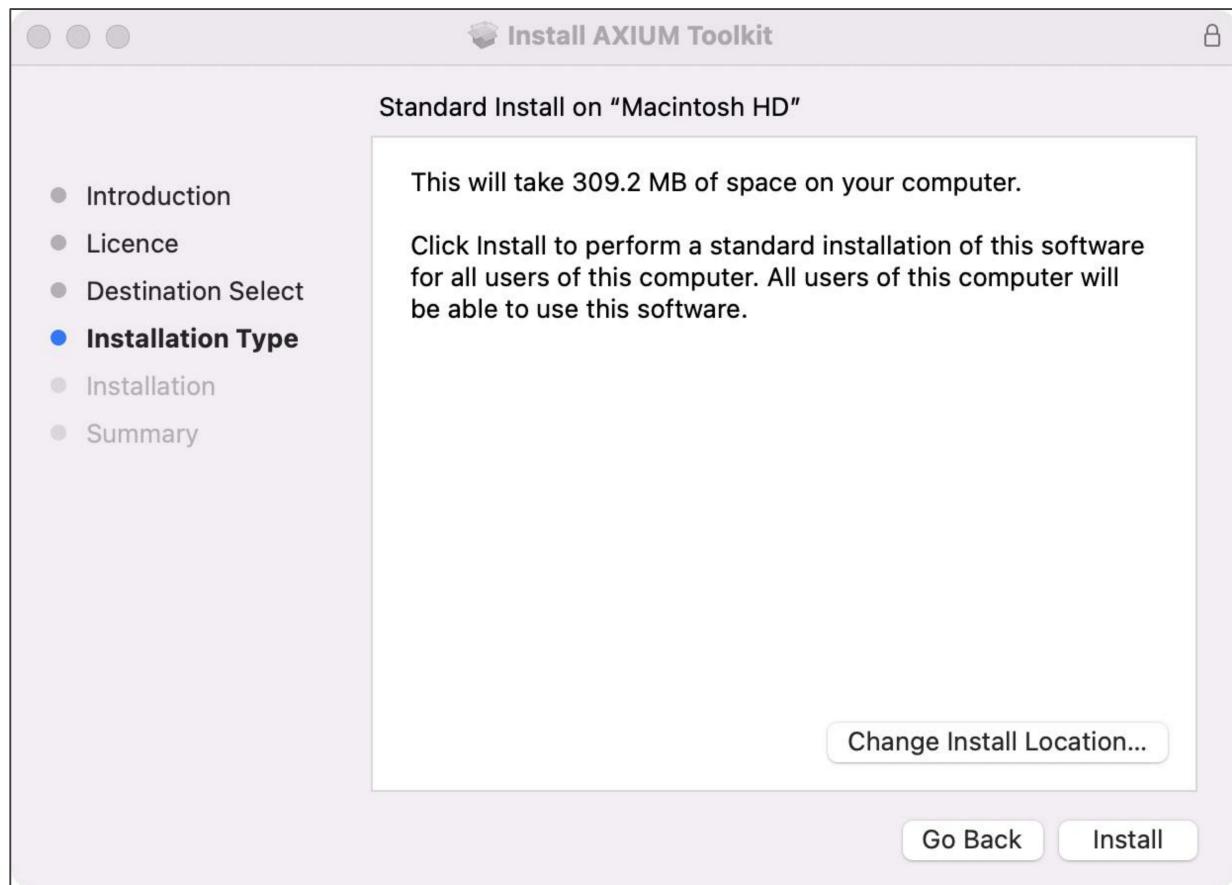


Figure 8

- 5) During installation, an authorization window will pop up. Enter the system with user password to continue the installation.

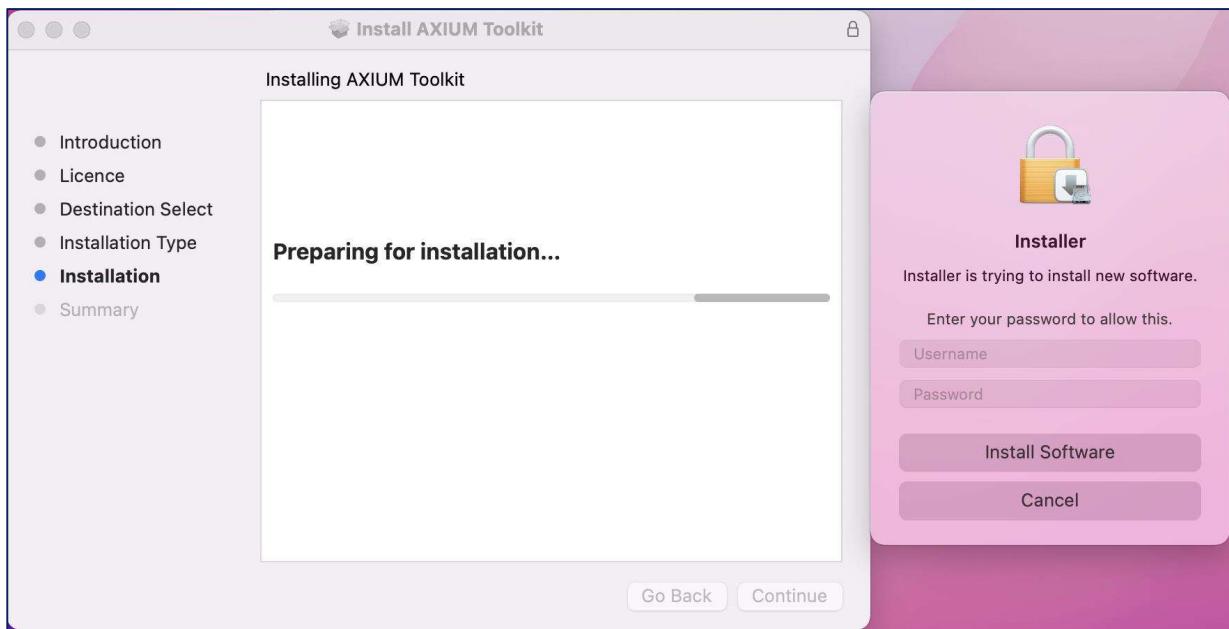


Figure 9

- 6) Wait a few minutes for the installation to succeed.

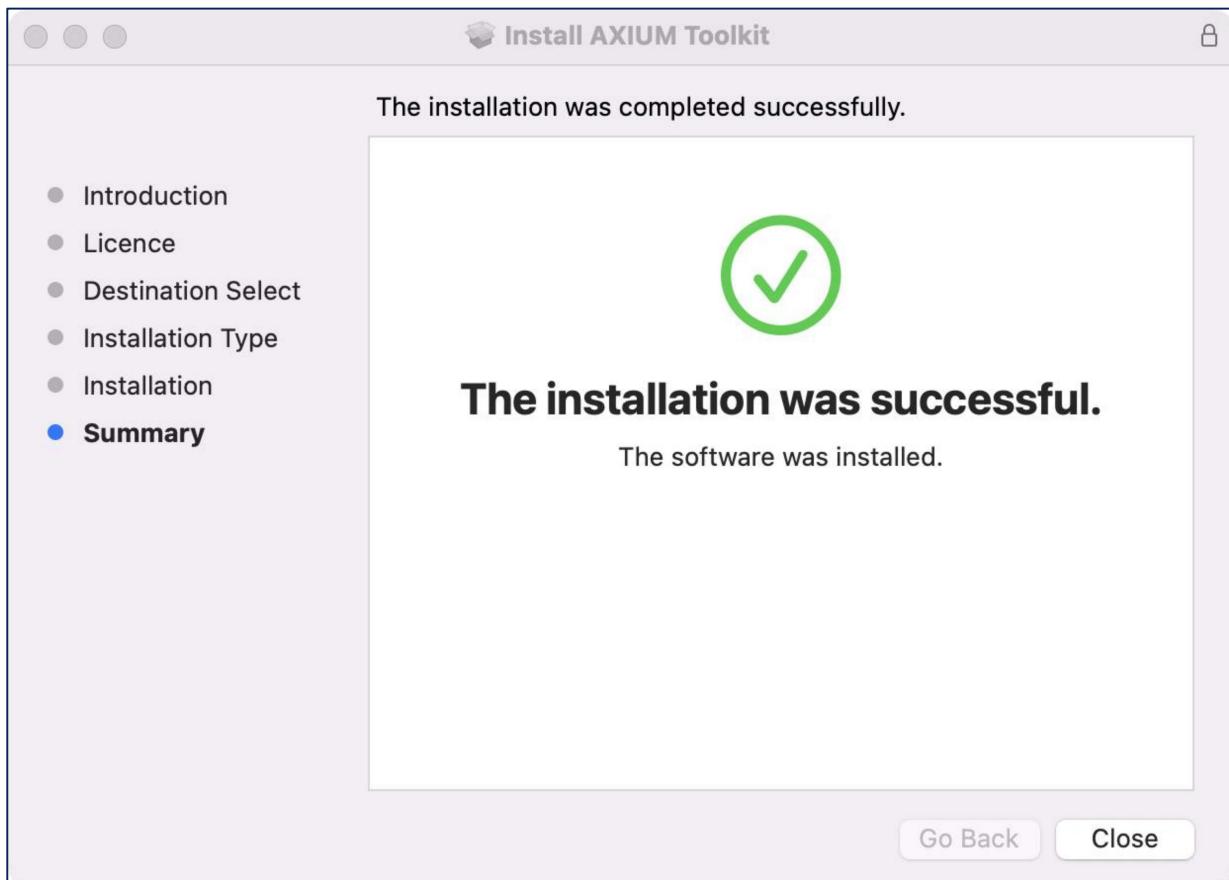


Figure 10

3.2 My Device

3.2.1 When no device is connected

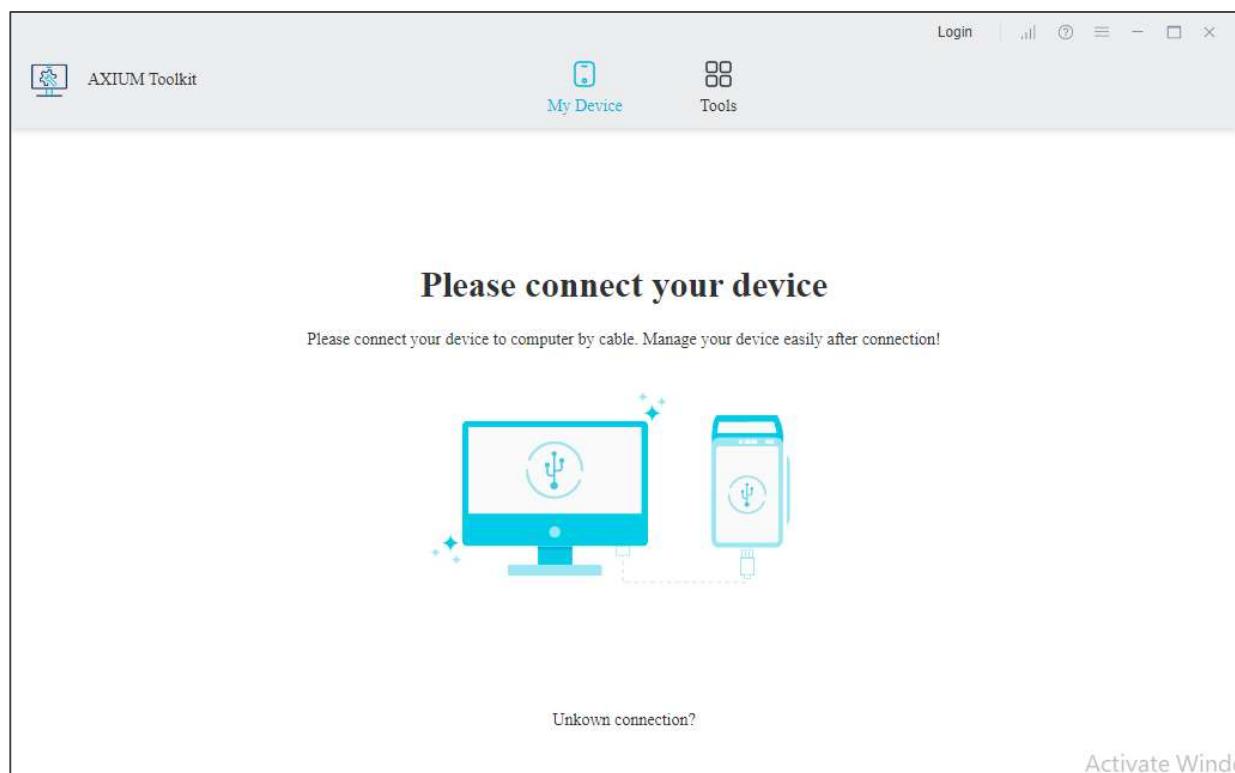


Figure 11

3.2.2 When device is connected

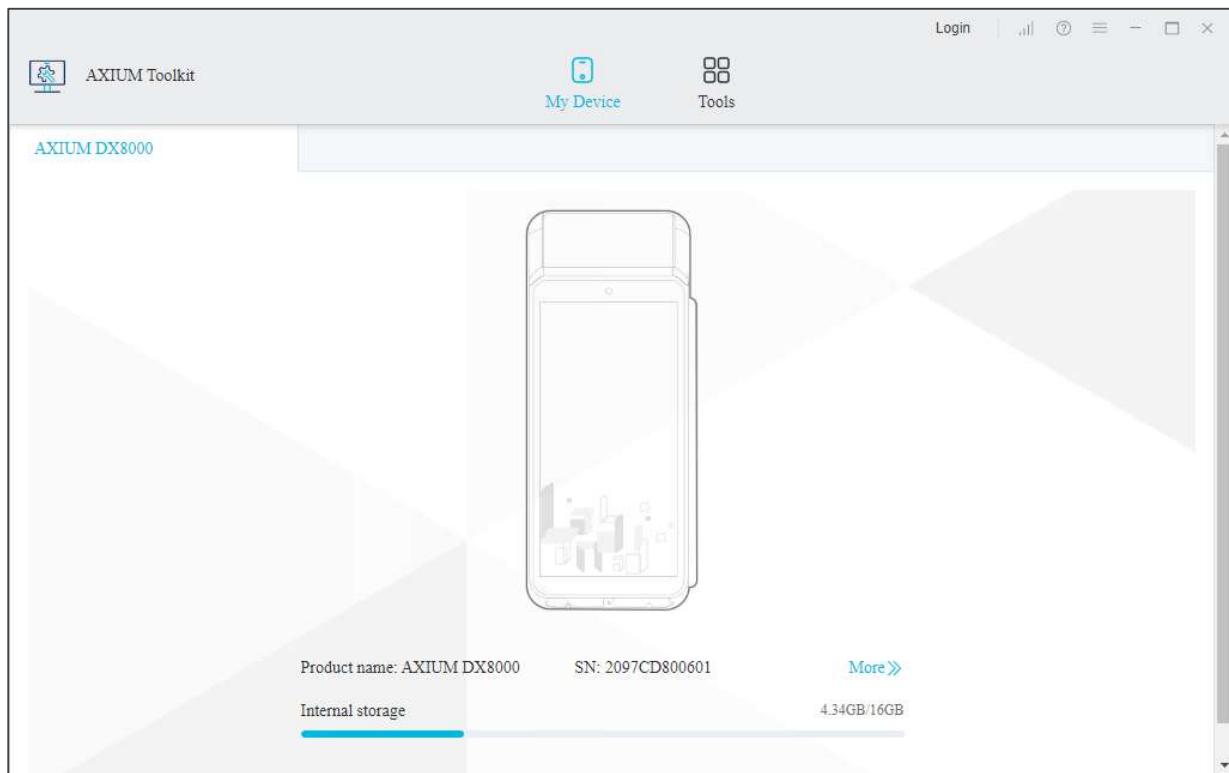


Figure 12

If the connected device cannot be identified, check whether the driver is installed correctly first (see **section 3.5.2** for driver management). And if there is no problem with the driver, it is recommended to try the following methods:

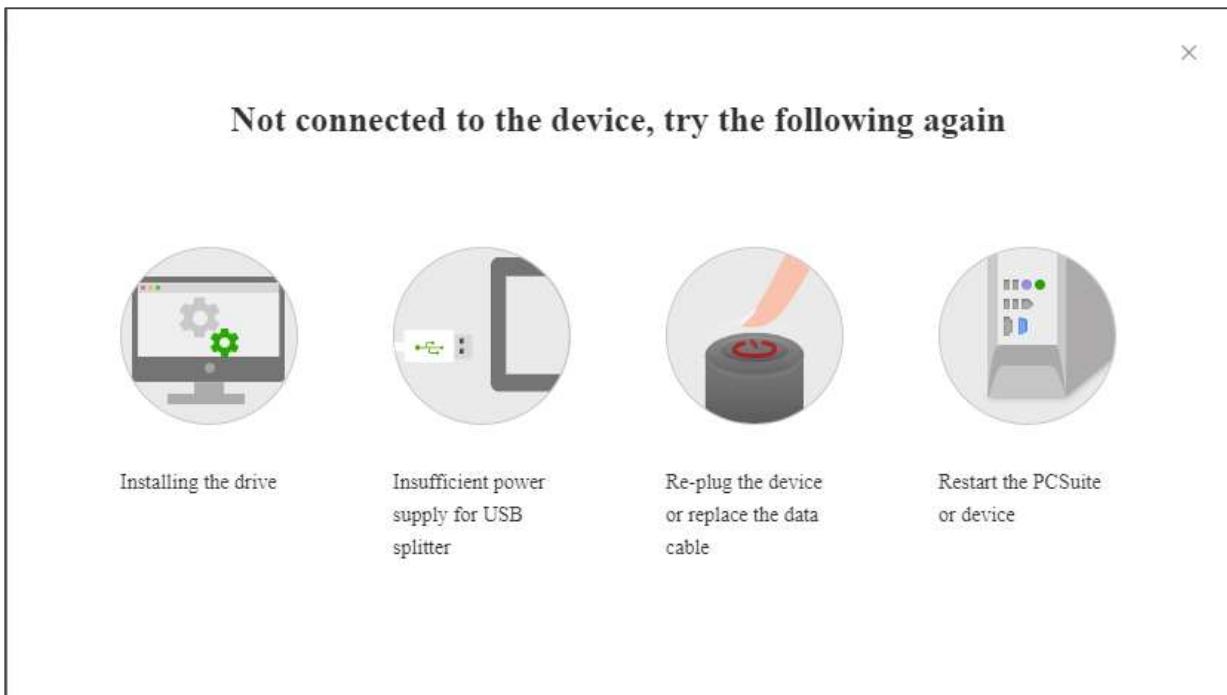


Figure 13

If the following **Windows Security Alert** box pops up, select **Allow Access**.

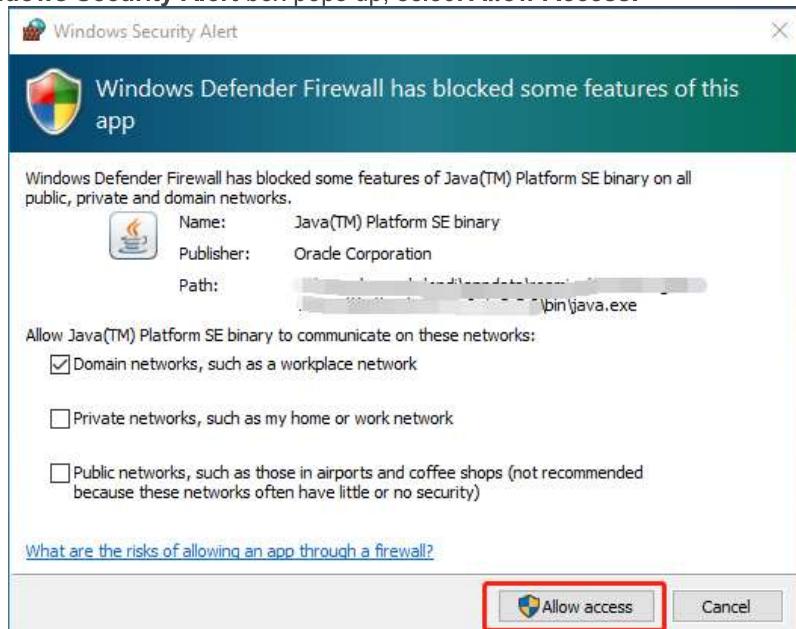


Figure 14

3.2.3 More info

Click  to see more info of the device.

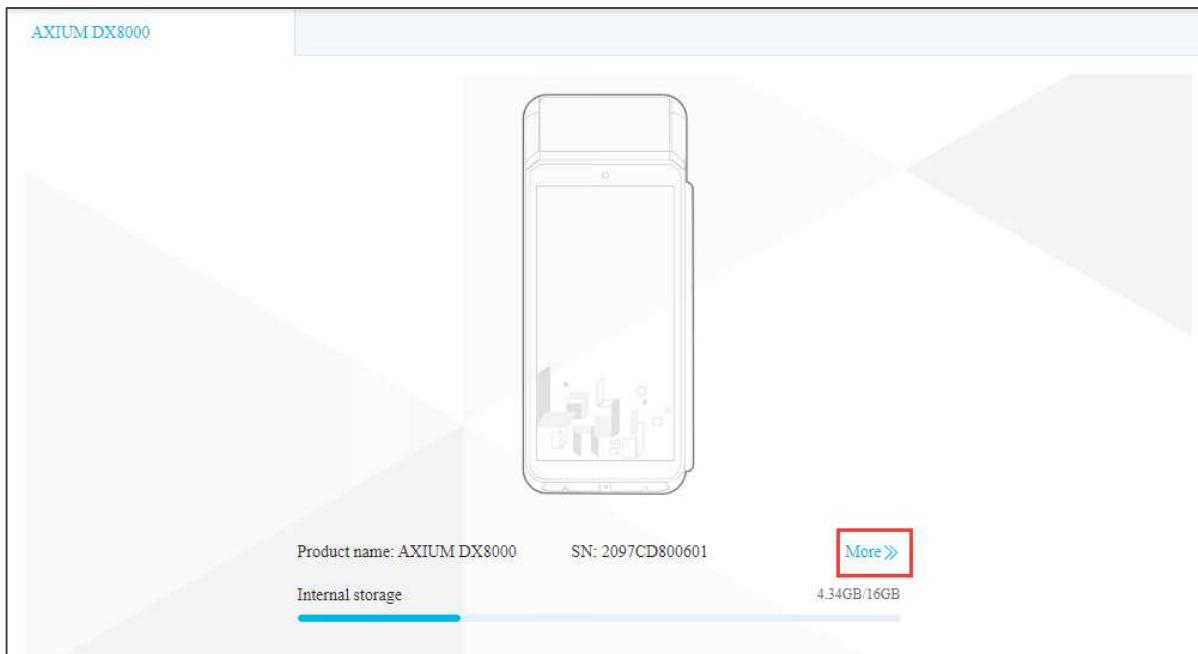


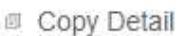
Figure 15

Go to info details page:

AXIUM DX8000	
← Back Open Detail Copy Detail	
Product name	AXIUM DX8000
Model	AXIUM DX8000
SN	2097CD800601
Base version	FM_BASE_18A_W20.37.2_P2 sc9832e_modem 01-13-2021 12:13:06
Storage config	2GB+16GB
Version	0.6.0RA Default-1.3.0
Android version	10
Iscos	AxiSCOSV2

Figure 16

- [Open Detail](#) Open device details directly in the text editor to save the details.

-  Copy device details directly to facilitate saving of detailed information.

3.3 Tools

3.3.1 Tool Installation

Click  to install tools.

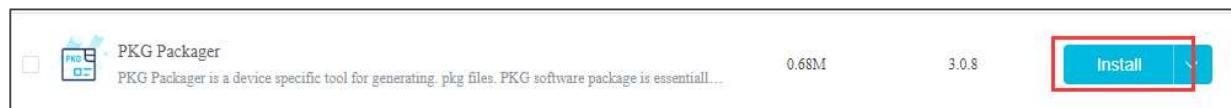


Figure 17

Or after selecting multiple tools, install them with one click.

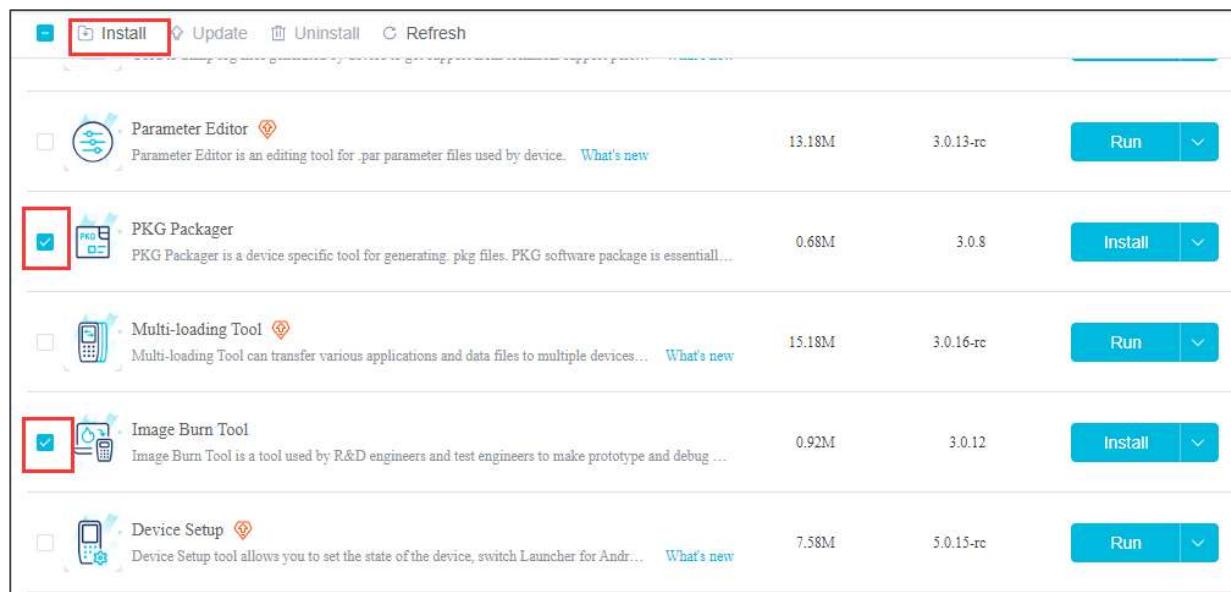


Figure 18

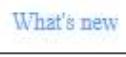
3.3.2 Run Tool

After installation, click  to open and run the tool.

<input type="checkbox"/>	 Repairing Tool	Repairing tool is a tool used by maintenance staff to maintain equipment.	0.88M	3.0.15-rc	<button>Run</button>
<input type="checkbox"/>	 Resource Packager	Pack the user-specified files into a resource package in APK format	0.76M	3.0.12-rc	<button>Run</button>
<input type="checkbox"/>	 Signing Tool	Signing Tool uses the U-Key you hold to sign the device file. Signed device files can be approved b...	0.64M	3.0.14-rc	<button>Run</button>
<input type="checkbox"/>	 Device Log	Used to dump log files generated by device to get support from technical support personnel.	0.82M	3.0.13-rc	<button>Run</button>
<input type="checkbox"/>	 Parameter Editor	Parameter Editor is an editing tool for .par parameter files used by device.	6.29M	3.0.13-rc	<button>Run</button>

Figure 19

3.3.3 Tool Update

-  The number appears on the icon indicates the quantity of tools that can be updated.
-  It appears in the tool list indicating that there is an available new version of this tool.
-  Click it to see the details.
-  Click it to update to the new version.

<input type="checkbox"/>	 Device Log	Used to dump log files generated by device to get support from technical support pers... What's new	1.71M	3.0.13-rc	<button>Run</button>
<input type="checkbox"/>	 Parameter Editor	Parameter Editor is an editing tool for .par parameter files used by device. What's new	13.18M	3.0.13-rc	<button>Run</button>
<input type="checkbox"/>	 PKG Packager	PKG Packager is a device specific tool for generating .pkg files. PKG software package is essentiall...	0.68M	3.0.8	<button>Run</button>
<input type="checkbox"/>	 Multi-loading Tool	Multi-loading Tool can transfer various applications and data files to multiple devices... What's new	15.18M	3.0.16-rc	<button>Run</button>

Figure 20

Or select multiple updateable tools and then update them with one click.

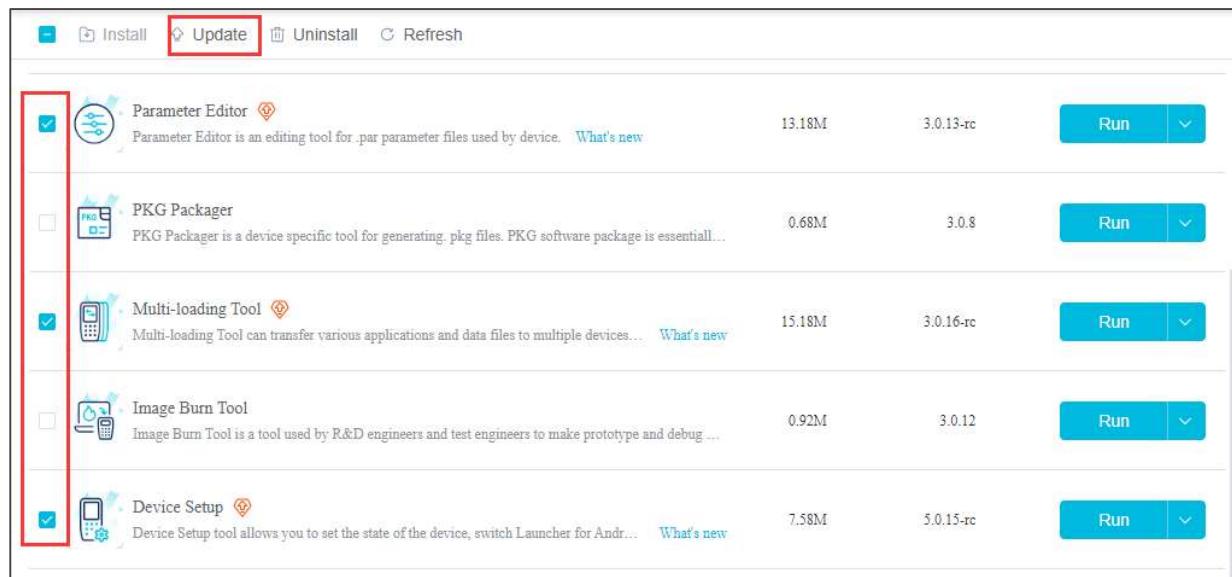


Figure 21

Note: Tool updates are divided into optional updates and mandatory updates. Optional updates can be used without updating, but mandatory updates must be executed before use.

3.3.4 Uninstall Tool

Click , then click to uninstall.

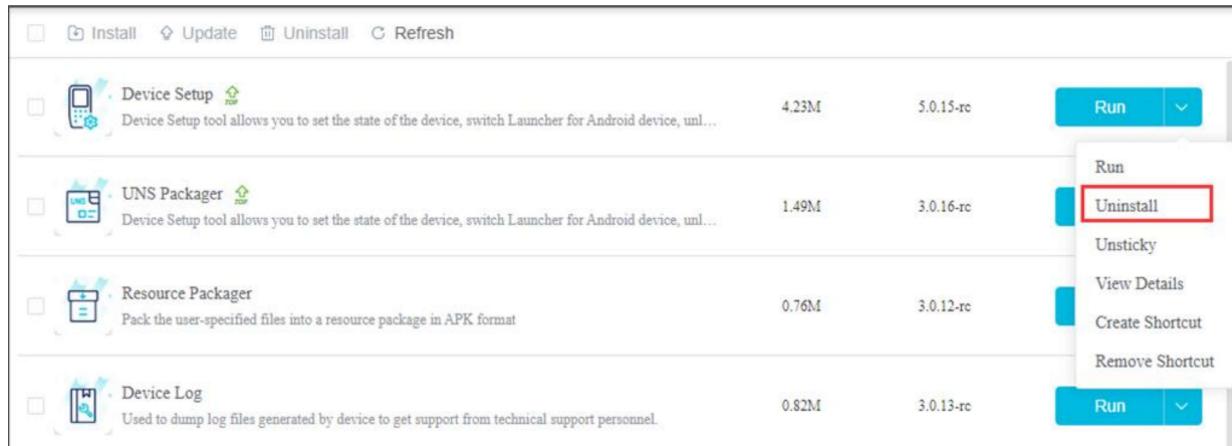


Figure 22

Or after selecting multiple tools, uninstall them with one click.

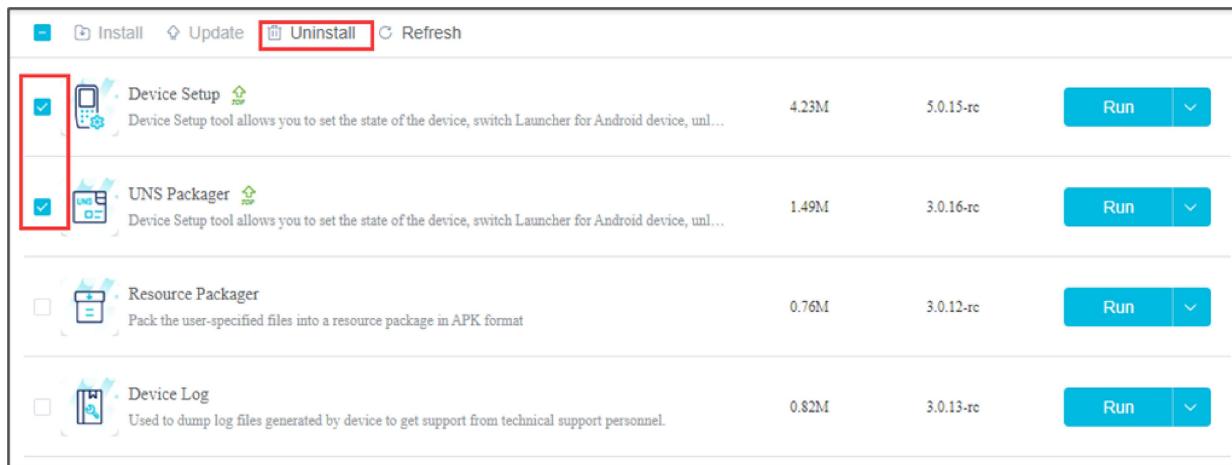


Figure 23

3.3.5 Tool Info

Click on the tool name to go to the info details page.



Figure 24

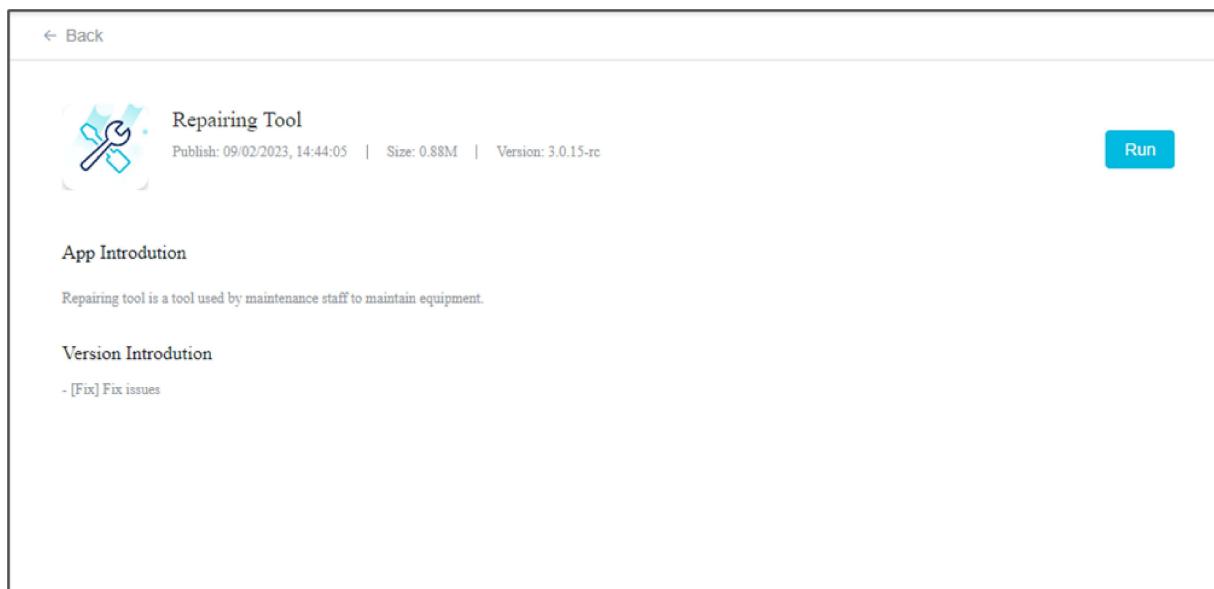


Figure 25

3.3.6 Other Features

Click to show more functions.

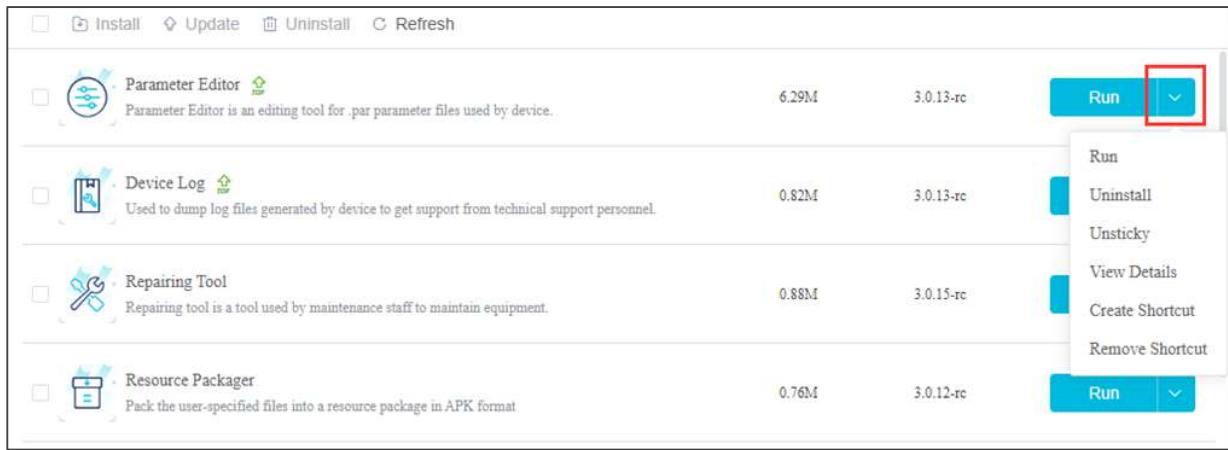


Figure 26

- Update – Update to new version
 - Run – Open current tool
 - Uninstall – Uninstall tools, not available for built-in applications of tools
- Sticky – Sticky on top with the icon 
- View details – View tool introduction and version history.
 - Create shortcut – for tools to be opened in desktop directly, only available on windows system
 - Remove shortcut – Remove desktop icon, can be removed in desktop directly too, only available on windows system.

3.4 Login

Once logged in, you can use the privileged sub-tools or functions. Click on the button  in the upper right corner to bring up the login screen.

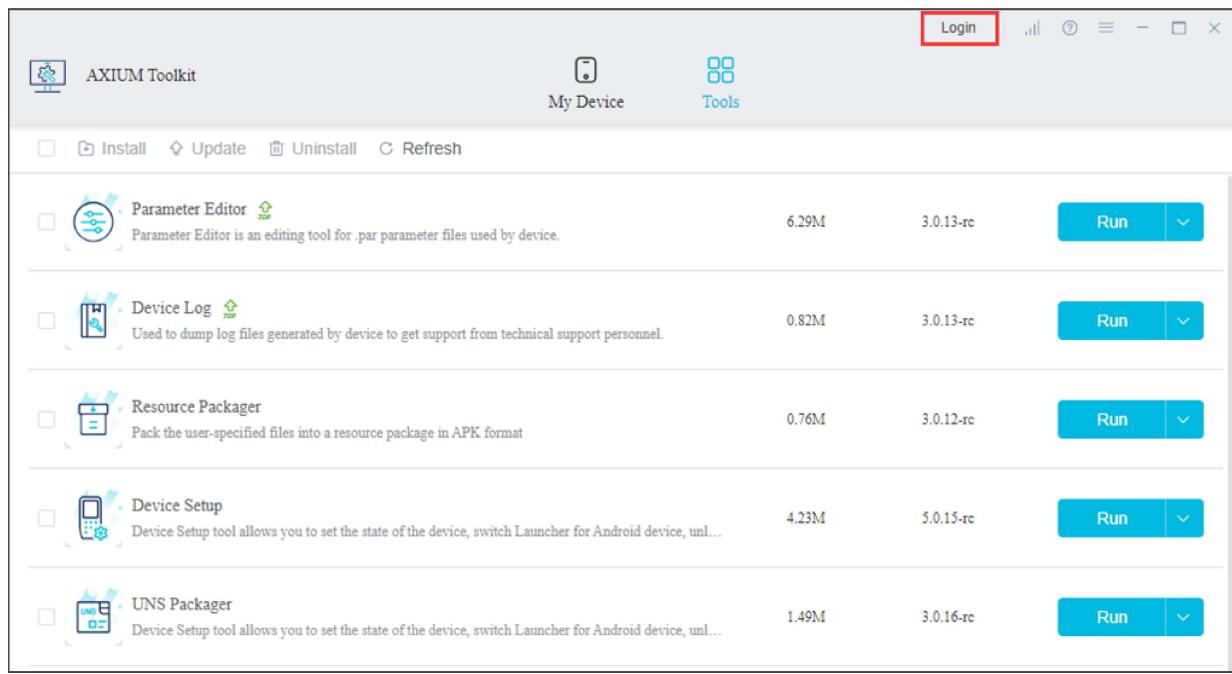


Figure 27

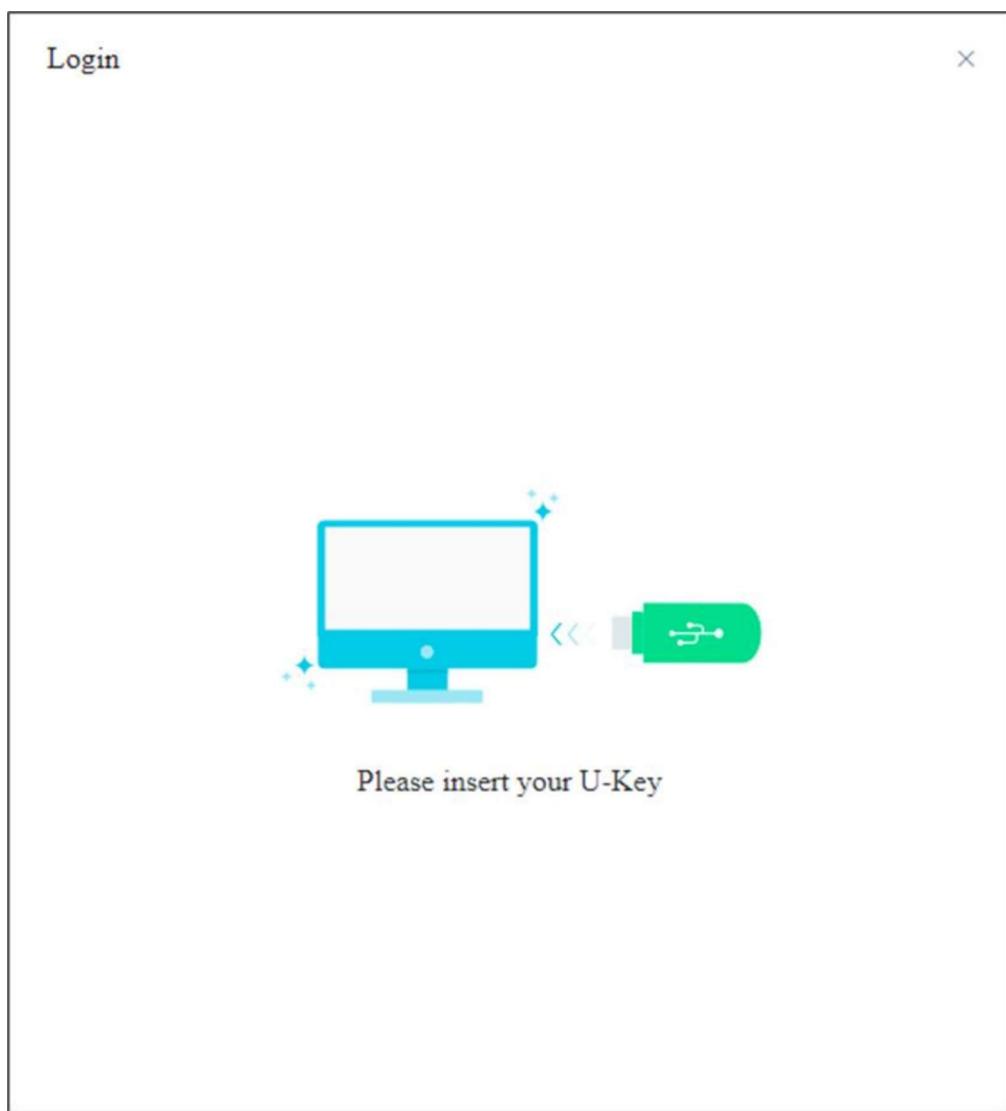


Figure 28

3.4.1 U-Key Login

U-Key login include customer service U-Key login and signature U-Key login.

- Single Login: After inserting in one U-Key, enter its password and click [Login].

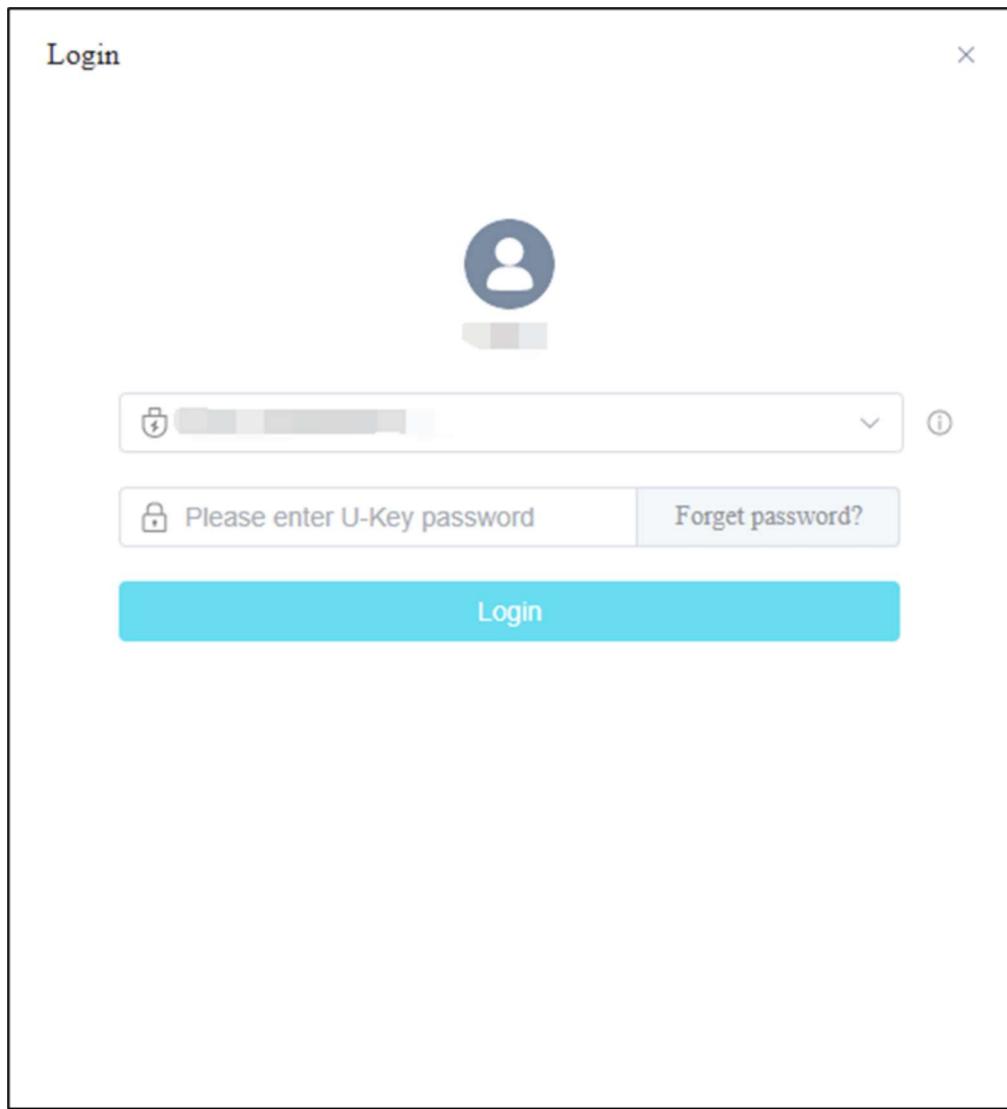


Figure 29

- Double Login: Or insert both the operator's U-Key and the administrator's U-Key to login. Enter the operator password and administrator password respectively and click [Login].

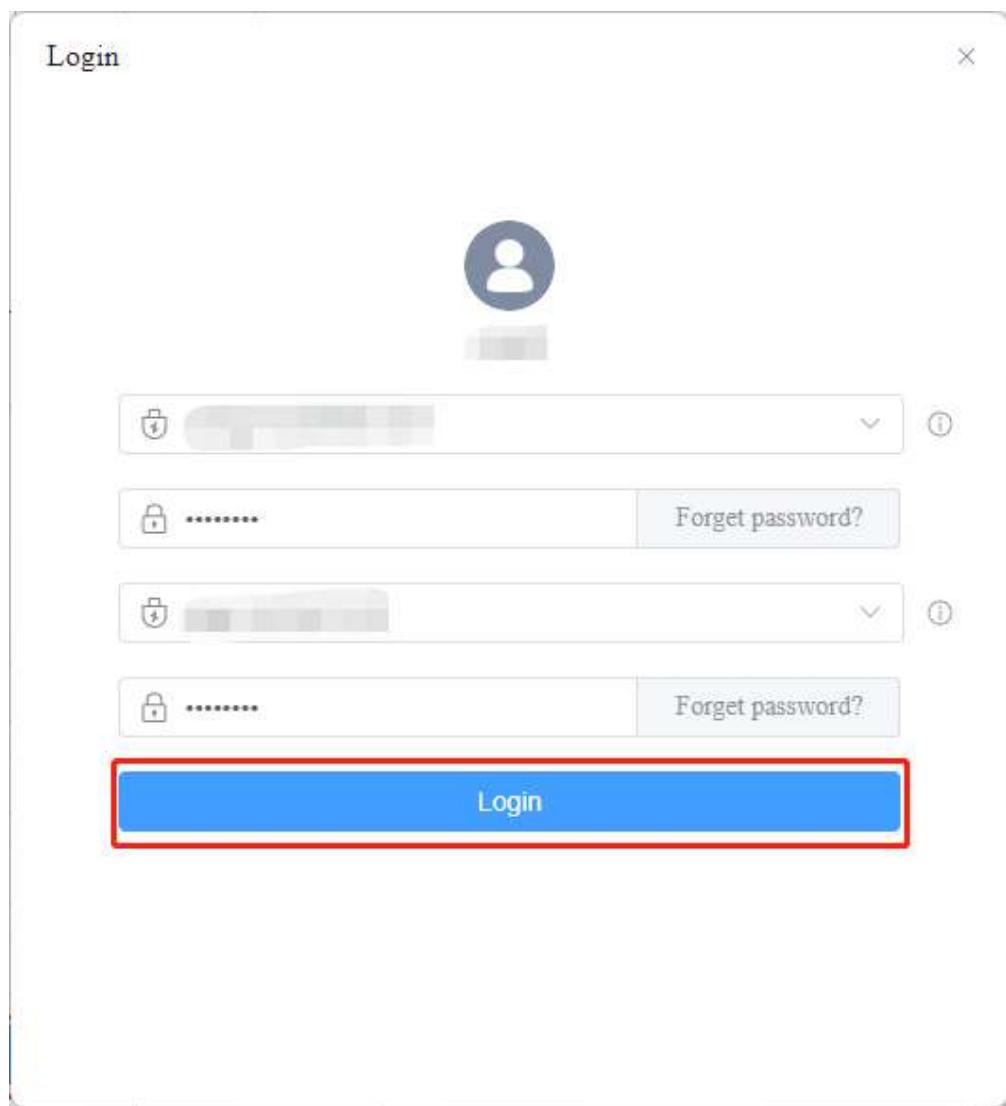


Figure 30

3.4.2 Reset Password

If you forget the password, there is password reset option. Insert the U-Key first, and click the

Forgot password?

to reset the password.

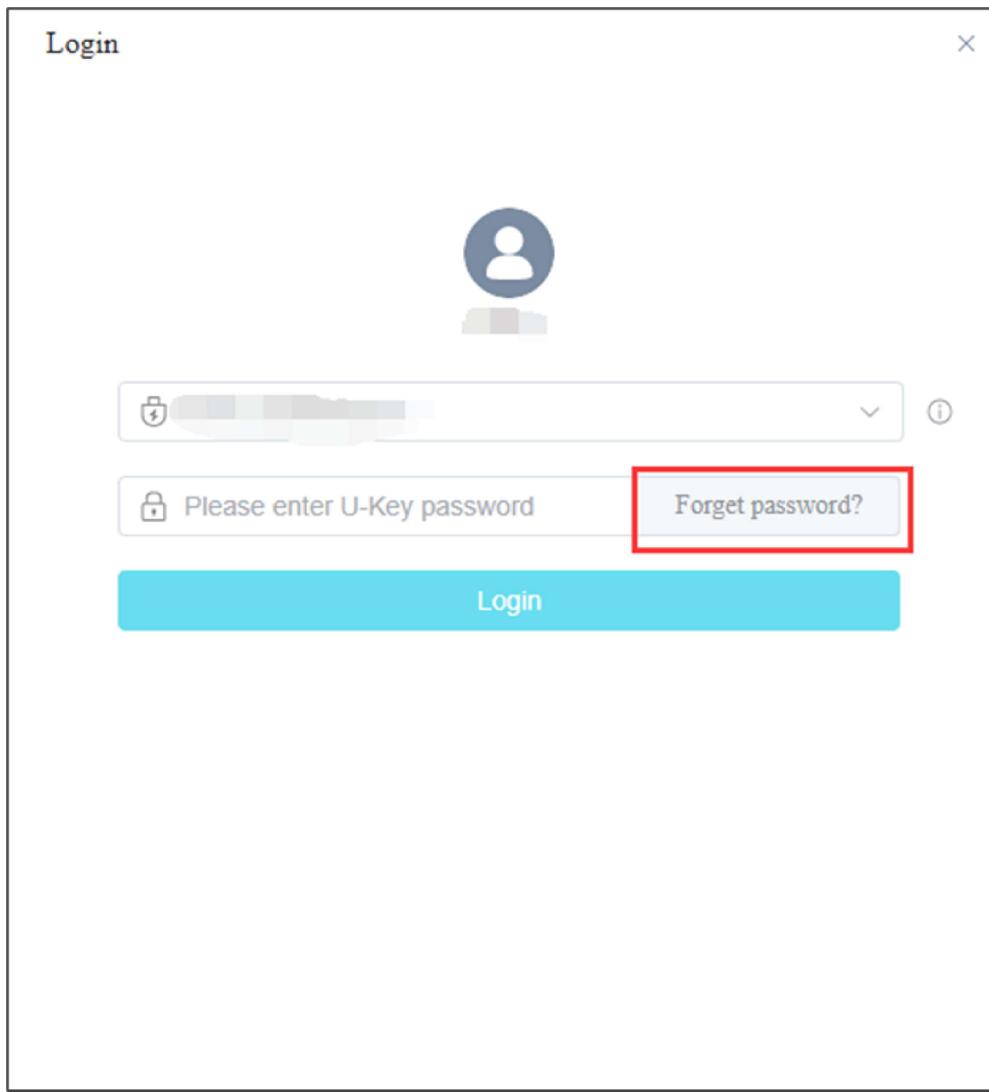


Figure 31

In the password resetting page: Click  to send verification code.

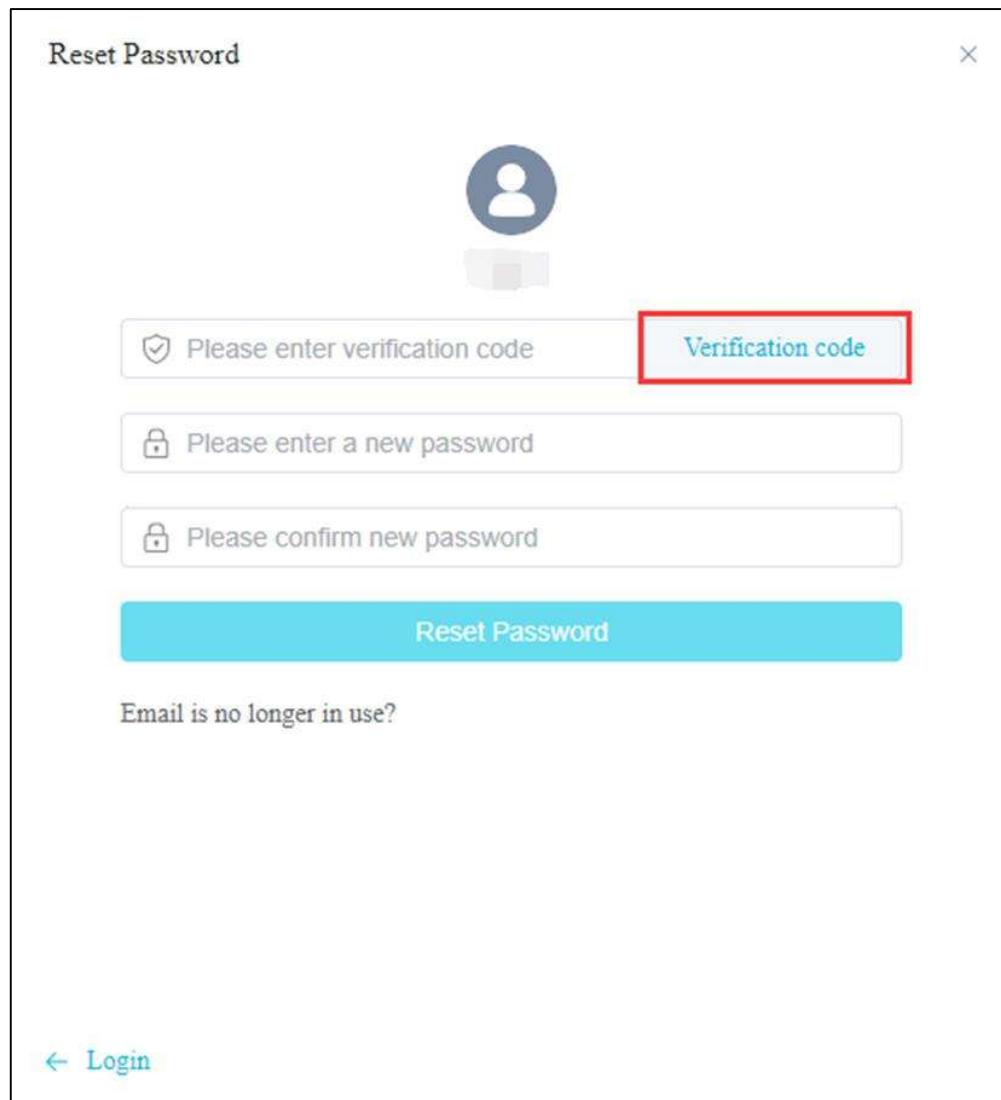


Figure 32

After entering the verification code sent via email, enter a new 8-digit password, confirm it, and then click [Reset Password].

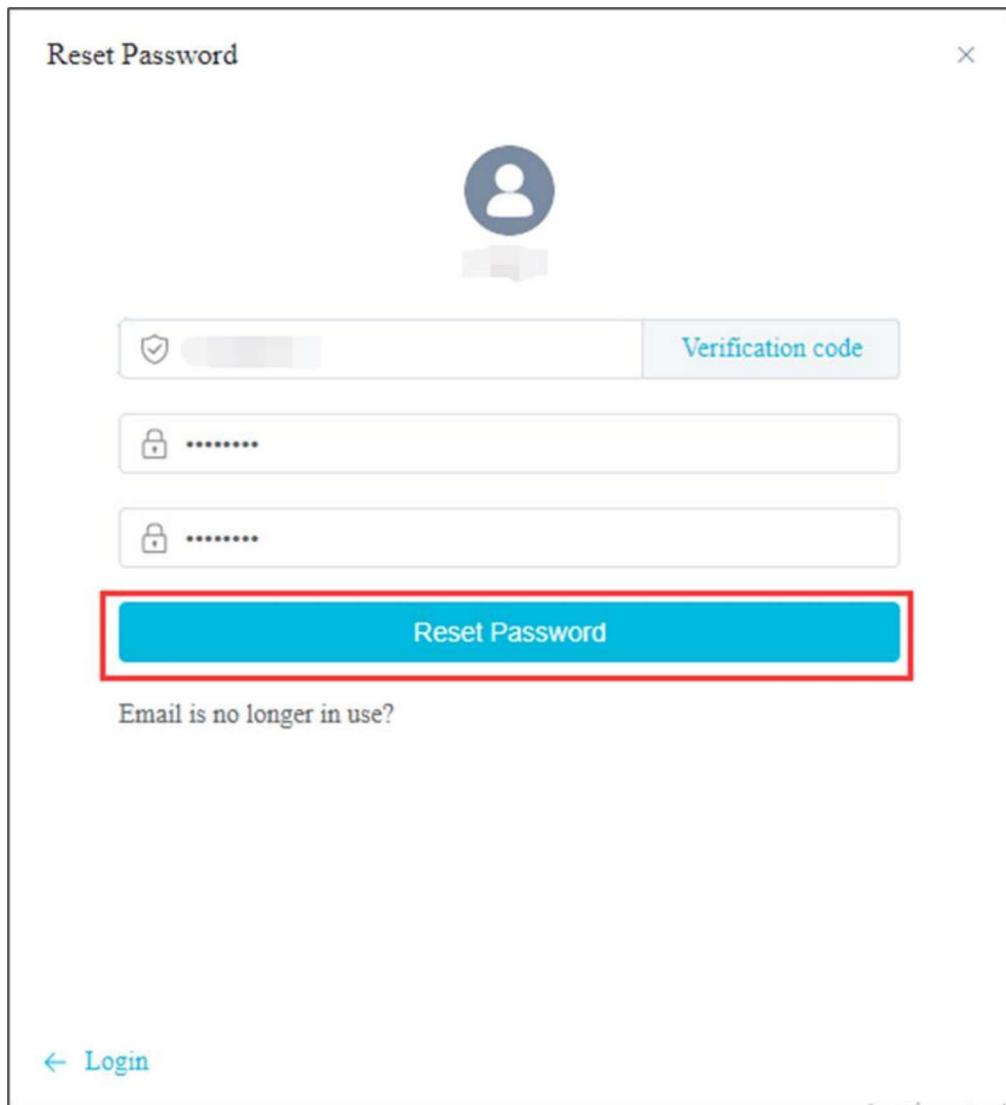


Figure 33

After the password is reset successfully, re-login with the new password.

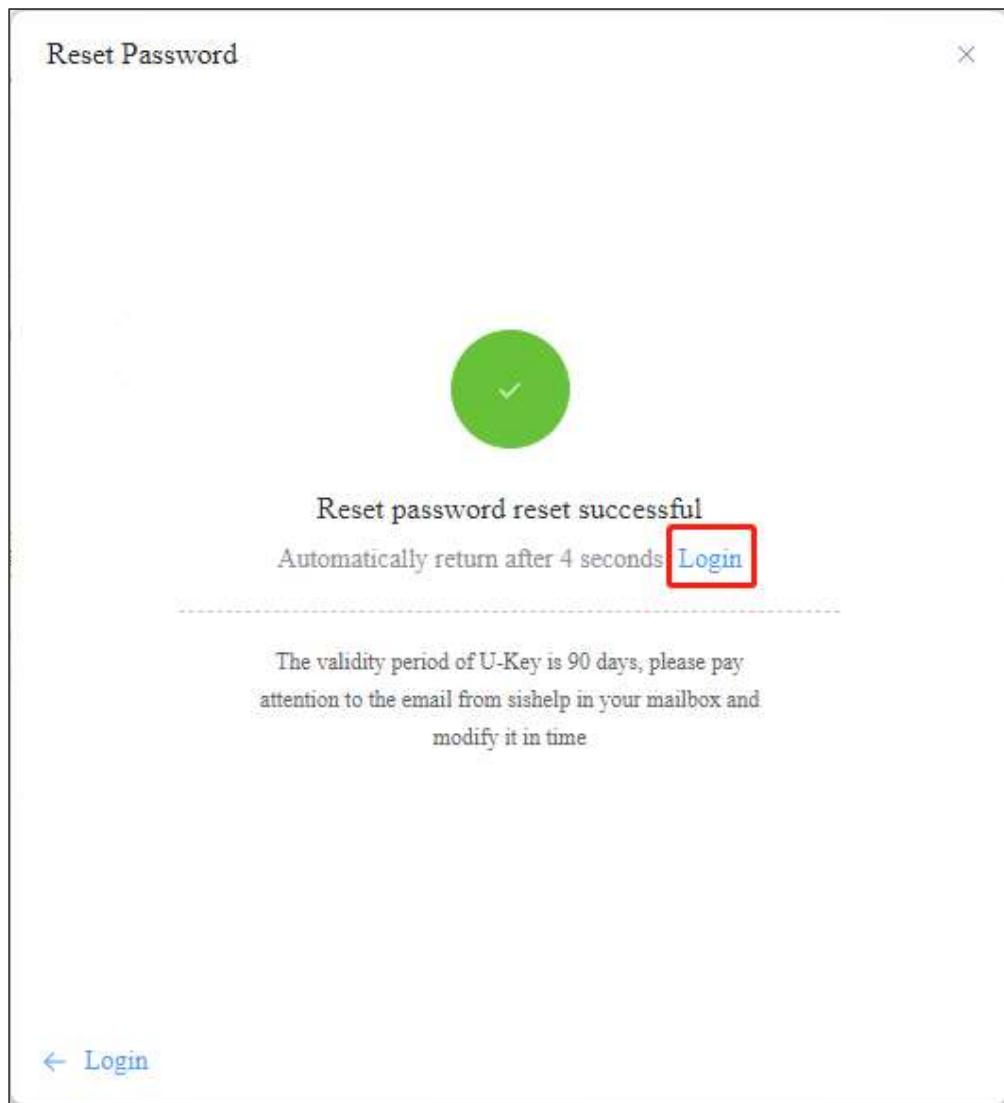


Figure 34

3.4.3 Modify U-Key Password

There are two approaches to change U-Key password:

In your first login of the new U-Key, log in with the initial password first. And you are required to change the password, please click "Modify Password" in the prompt message.

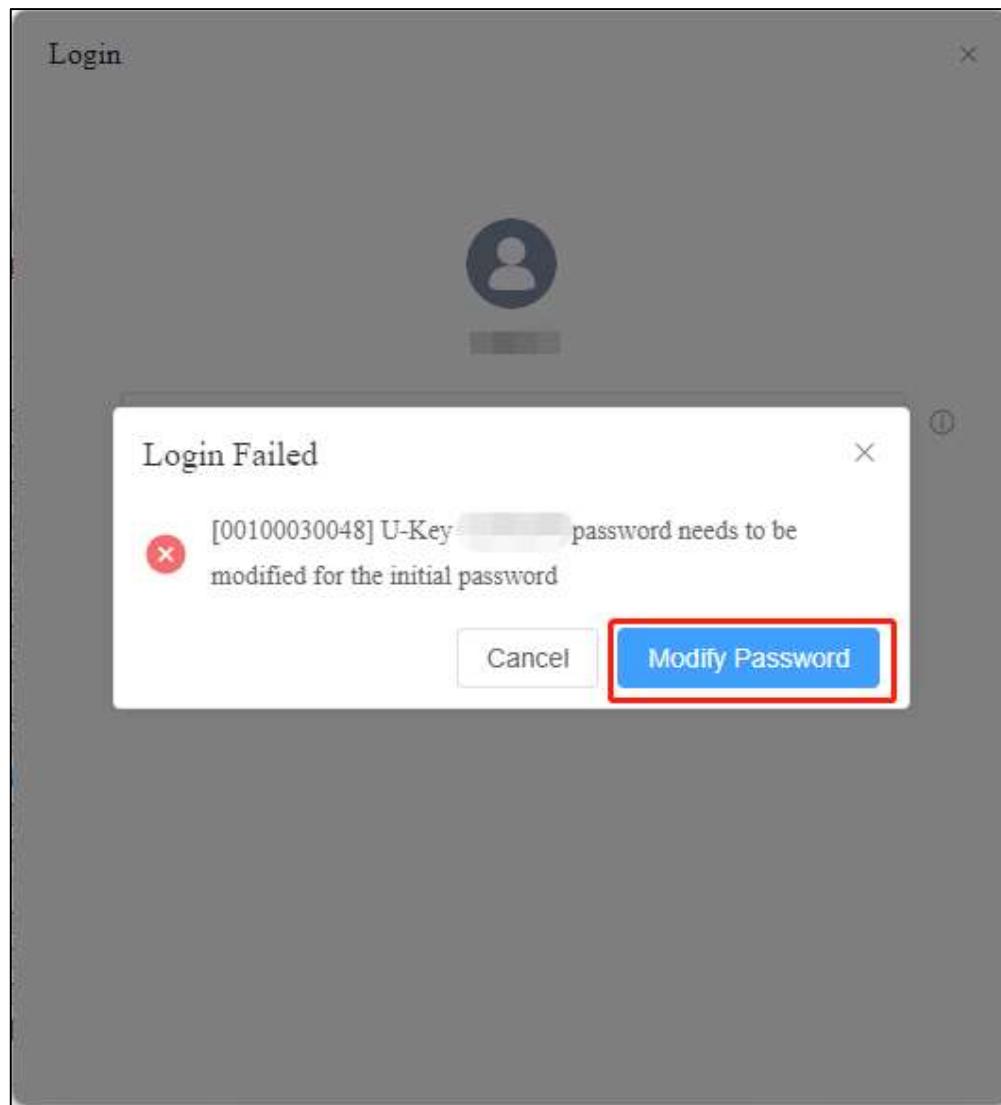


Figure 35

After U-Key login succeeded, go to reset the password by clicking “Change Password” in “Personal Center”. Enter the old password first and then click “Verification code”.

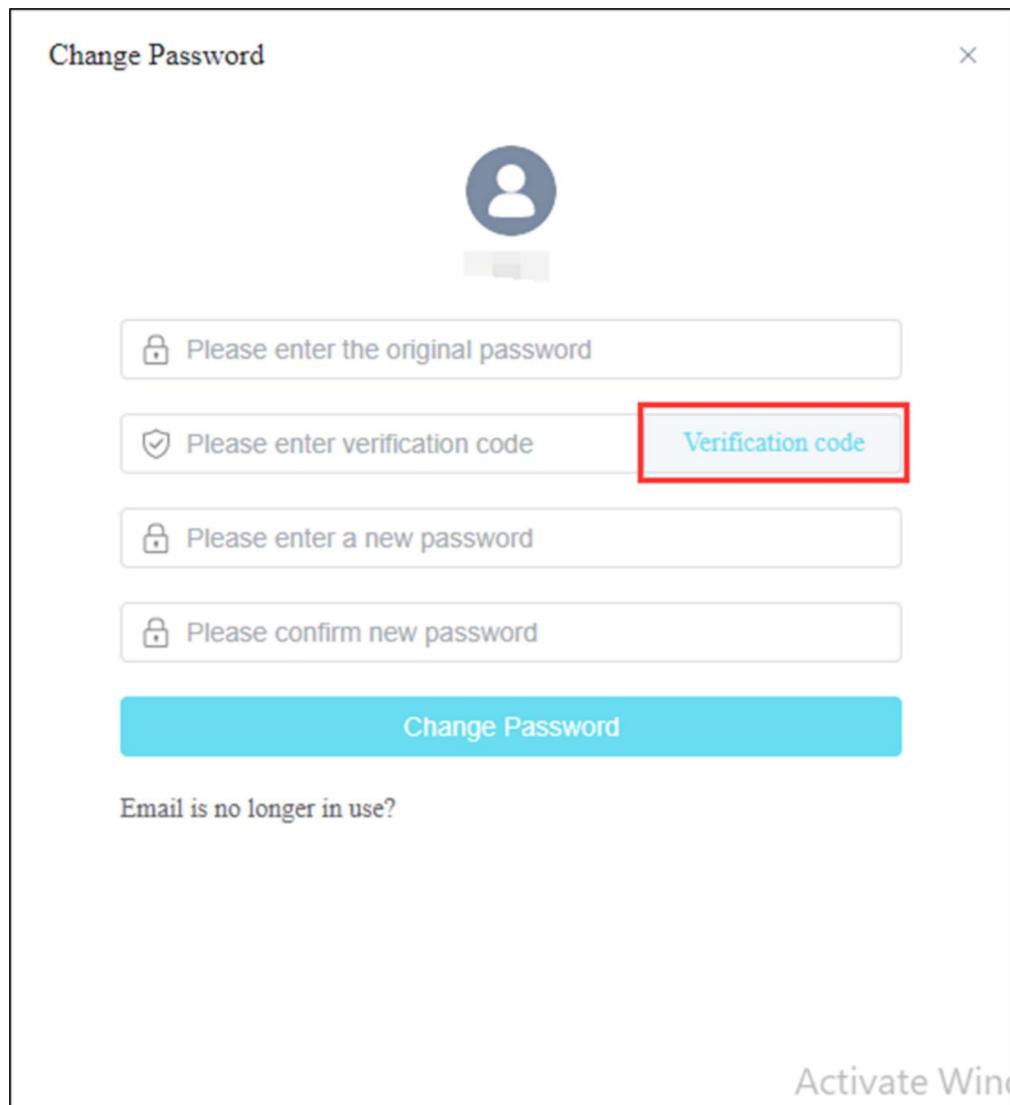


Figure 36

Input the received verification code, enter the new password, and then click “Change Password”.

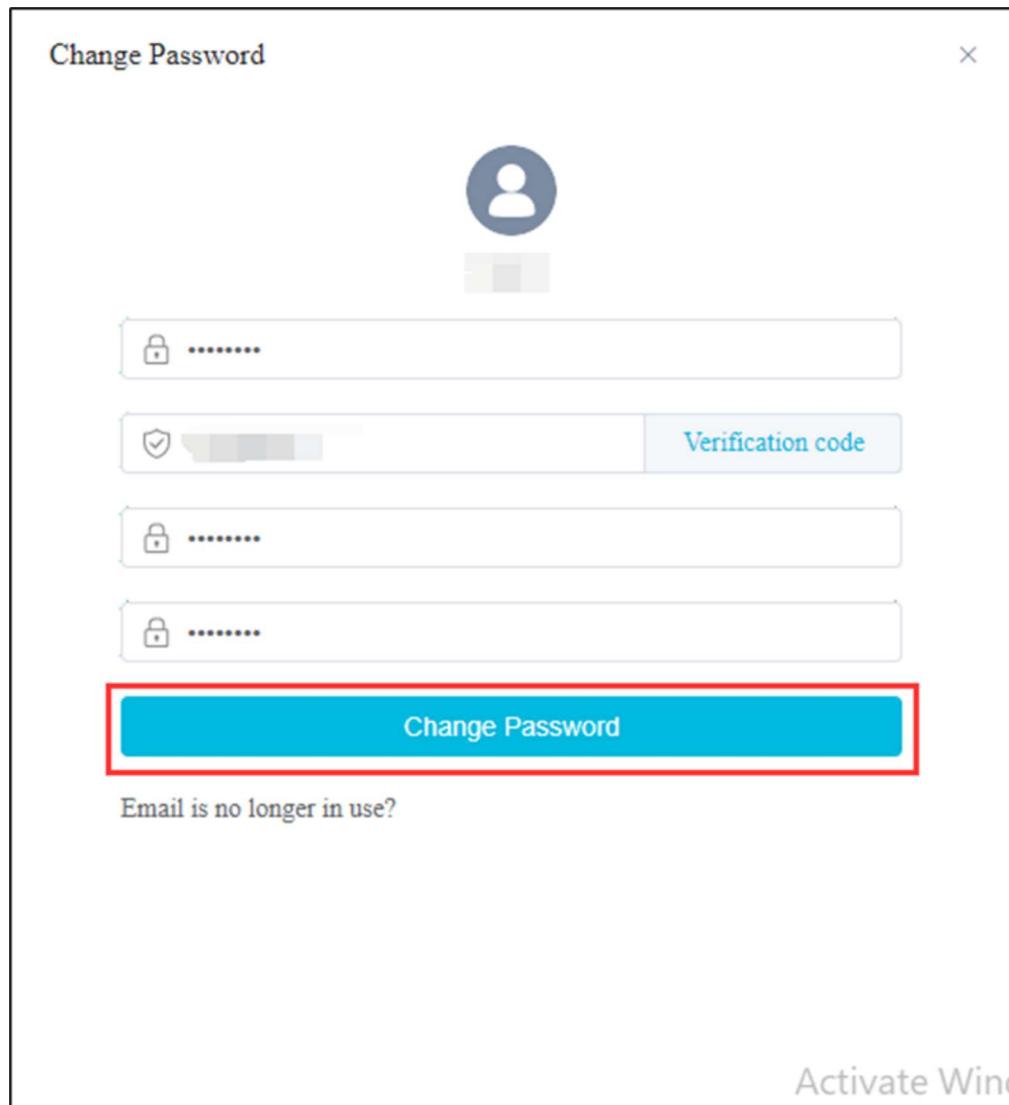


Figure 37

Log in with the new password after successful modification.

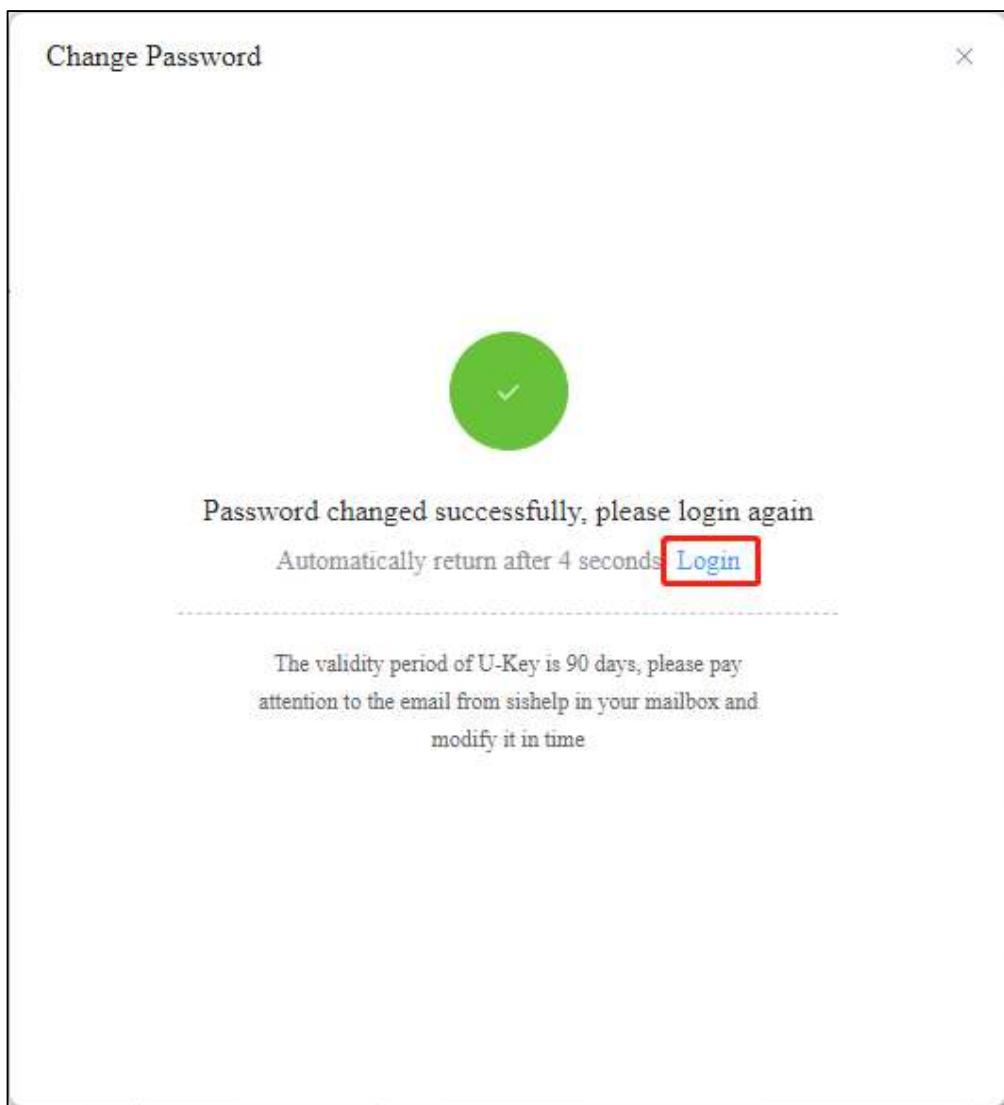


Figure 38

3.4.4 User Information

After login, click  on the right top corner to check the user information.

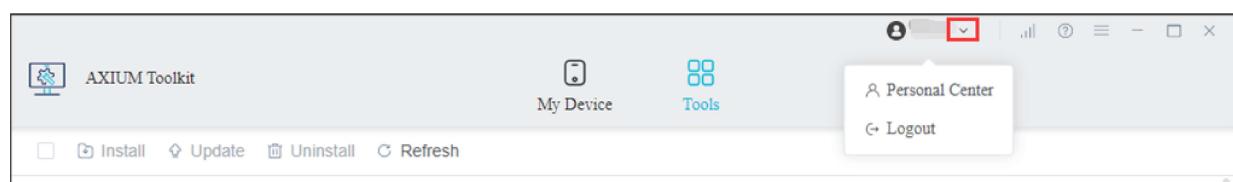


Figure 39

3.4.4.1 Personal Center

Click [Personal Center]

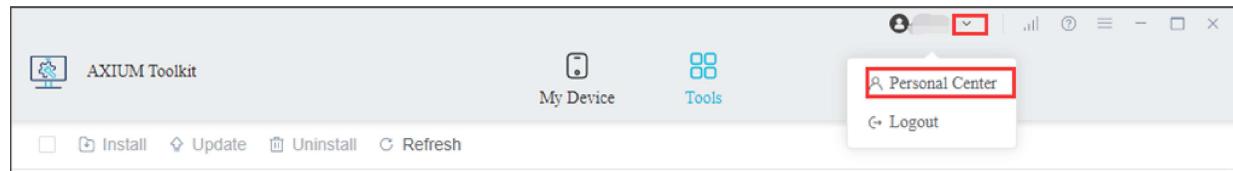


Figure 40

The Personal Center consists of **Security Information**, **My Certificates** and **My Auth Info**.

- **Security Information** mainly displays user information and U-Key information. Click “Change Password” to change the old password.

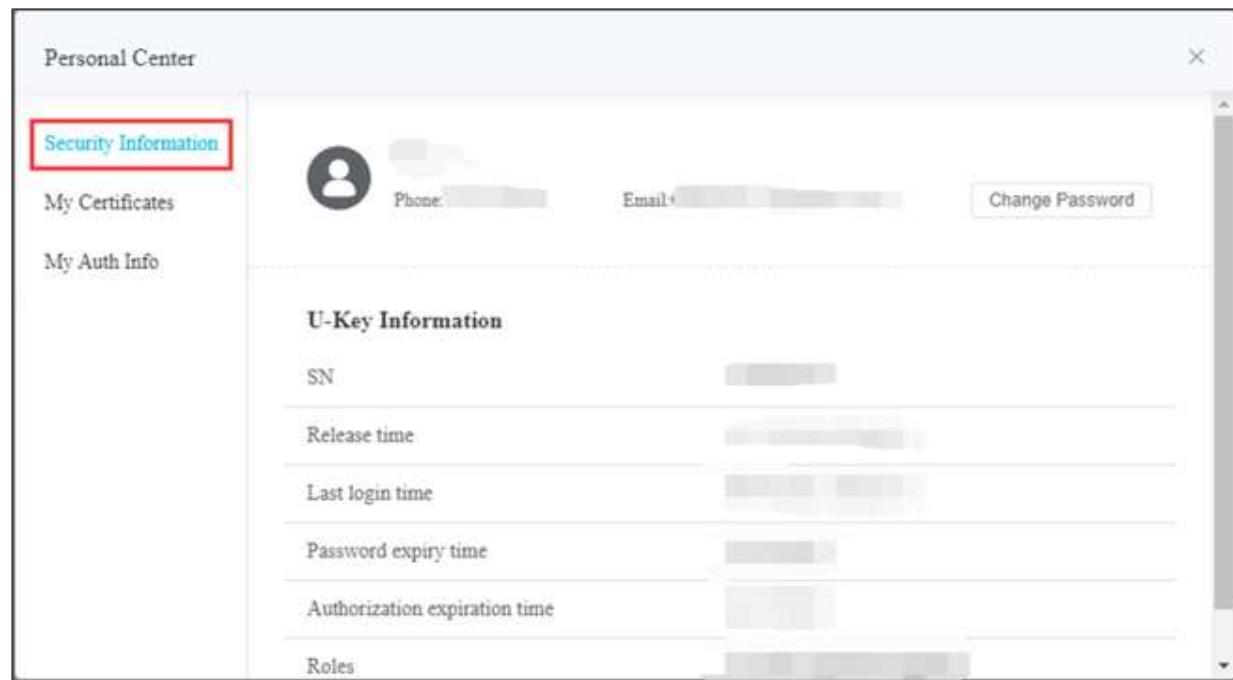


Figure 41

- **My Certificates** displays the associated certificates of current account.

Personal Center			
Security Information	Certificate name	Certificate ID	Operating
My Certificates	[REDACTED]	[REDACTED]	
My Auth Info	[REDACTED]	[REDACTED]	

Figure 42

Click the after the certificate list to copy certificate info.

Personal Center			
Security Information	Certificate name	Certificate ID	Operating
My Certificates	[REDACTED]	[REDACTED]	
My Auth Info	[REDACTED]	[REDACTED]	
	[REDACTED]	[REDACTED]	

Figure 43

- **My Auth Info** displays the authentication information of current account, including the operation permissions of corresponding devices and expiration date of such operation permissions.

The screenshot shows the 'Personal Center' window. On the left sidebar, there are four options: 'Security Information', 'My Certificates', and 'My Auth Info', which is highlighted with a red box. The main content area is titled 'My Auth Info'. It contains two search bars at the top: 'Whether the operation date' with a dropdown arrow and 'Enter SN/CPUID to search'. Below these are sections for 'SN' and 'CPUID', each with a blurred input field. A table follows, with columns 'Permissions', 'Operation Expiry Day', and 'Permissions Expiry Date'. The first row has a single permission entry. The second row has two permission entries, both of which have their 'Operation Expiry Day' set to a pink/red color, indicating they have expired. The third row has one permission entry. At the bottom, there are sections for 'SN' and 'CPUID' with blurred input fields.

Figure 44

You can quickly search auth info by searching whether it is expired or the device SN/CPUID:

This screenshot is identical to Figure 44, but with two specific search filters highlighted by red boxes: 'Whether the operation date' and 'Enter SN/CPUID to search'.

Figure 45

3.4.4.2 Logout

Click on the following icon next to the username, and select “Logout” from the drop-down menu.

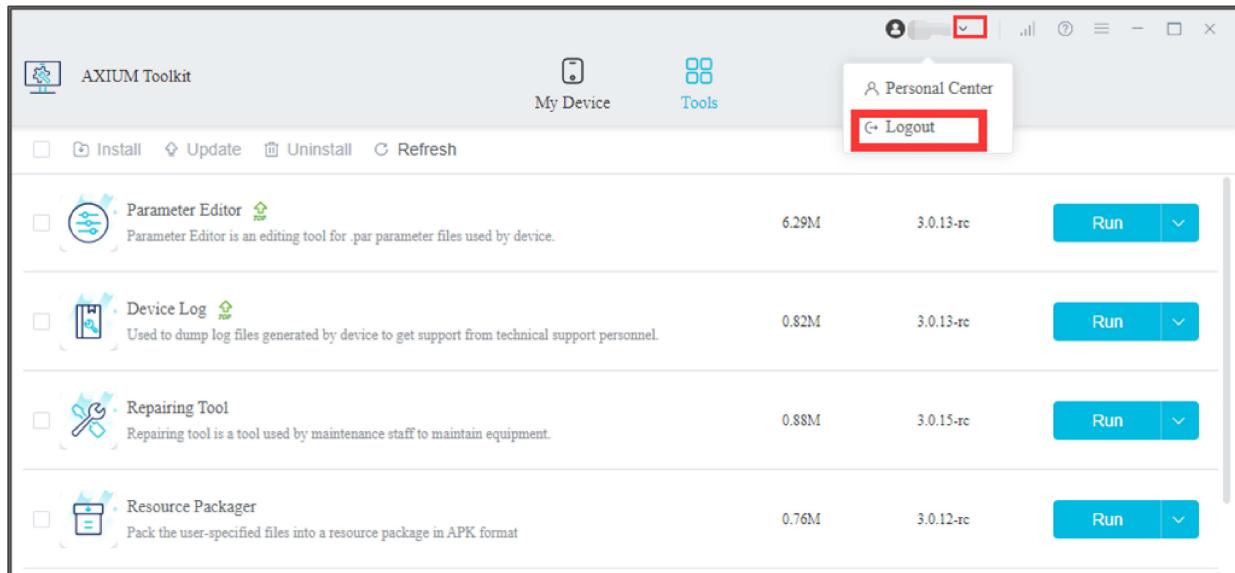


Figure 46

3.5 More Settings

Click  on the top right corner for more setting info. When the icon  displays, it indicates that there is driver issue to be fixed or new version to be updated.

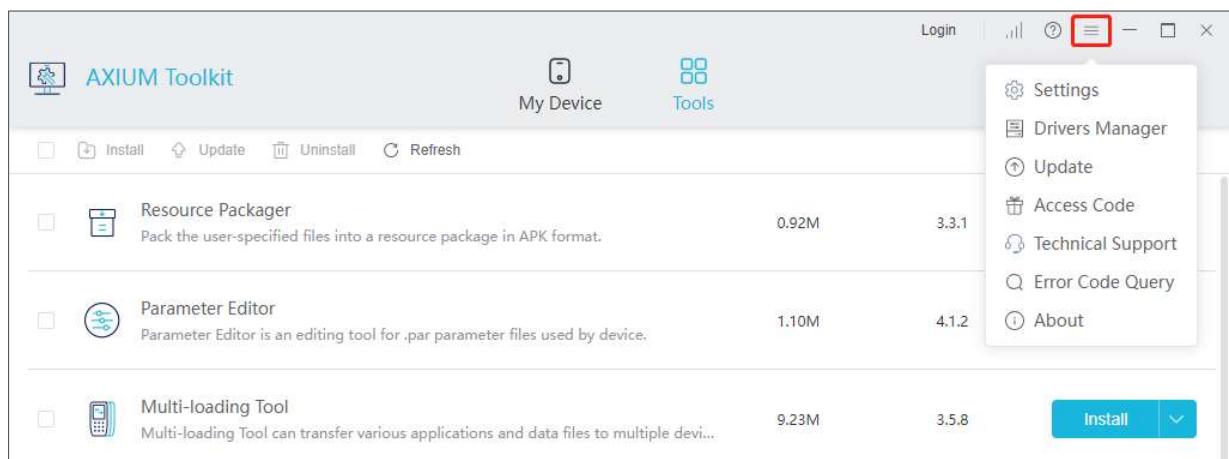


Figure 47

3.5.1 Settings

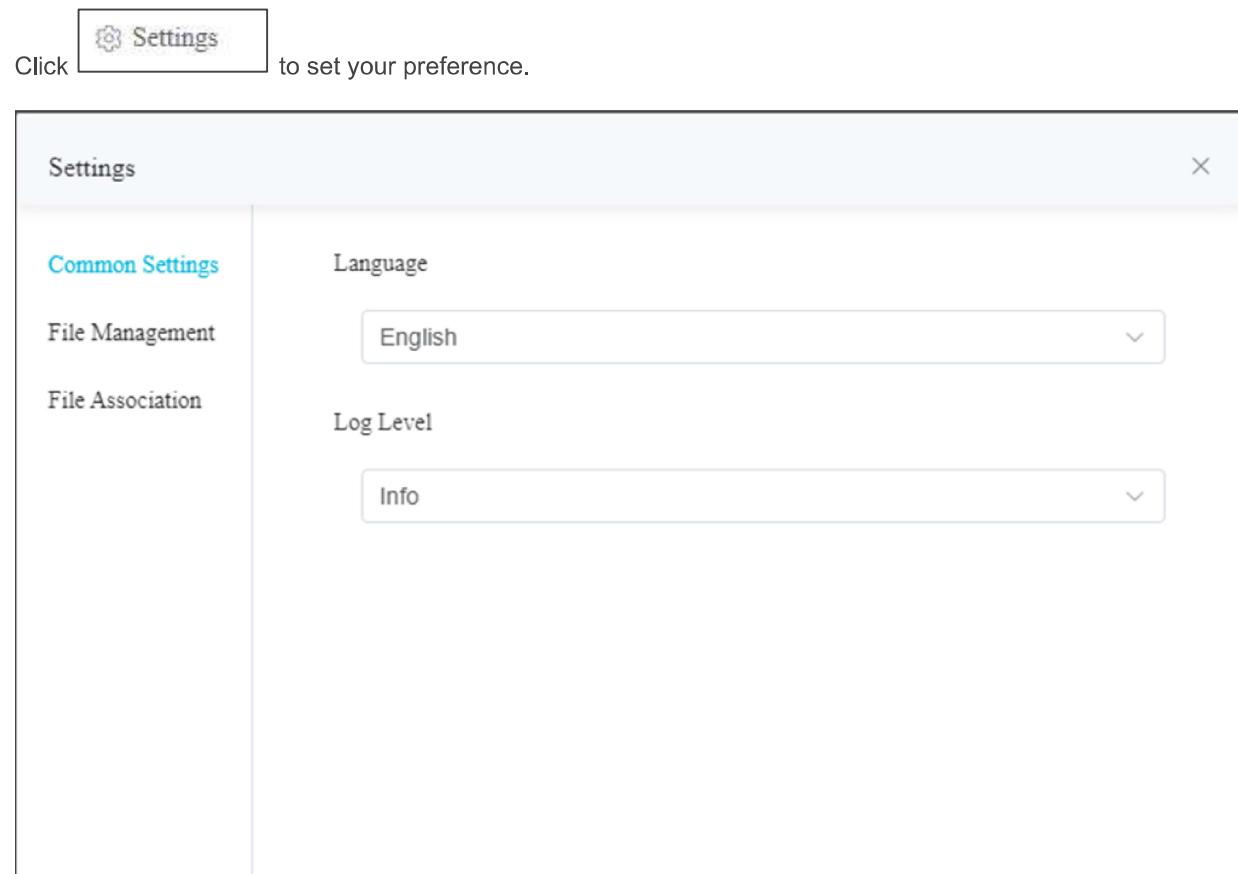


Figure 48

3.5.1.1 Common Settings

- Language shift for English and Chinese
- Log Level: Set the log level of applications or sub-tools. It is convenient to send logs to the developer to locate the problem. There are mainly four levels from high to low: DEBUG, INFO, WARNING, and ERROR. The higher the level, the more detailed the output log.

3.5.1.2 File Management

File management is used to set the storage directory of data files, log files or temporary files generated during the use of main applications or sub-tools.

- **Application Data Files:** to store data files or temporary files generated during the use of applications or sub-tools.

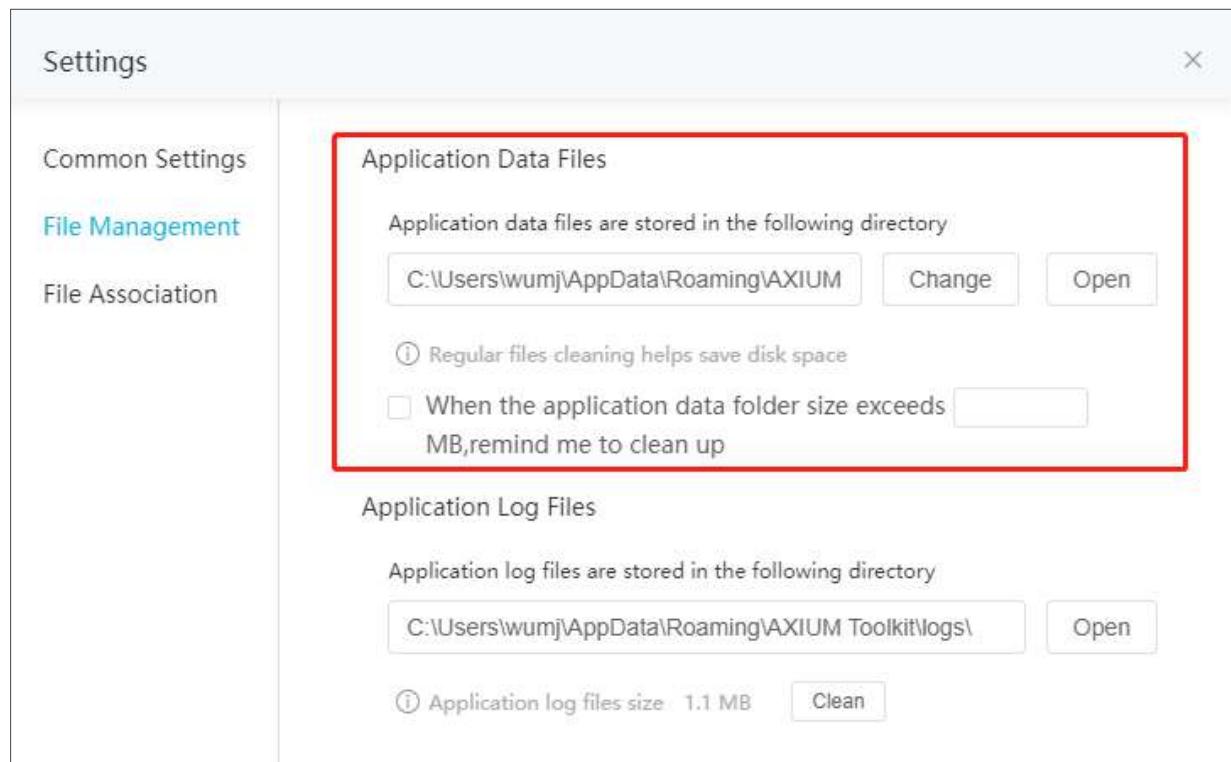


Figure 49

Note:

These directories are all under the system user data directory by default, and user can reset the directory by

pressing the button

Enabling the file cleaning reminder can prevent too many data files from causing insufficient computer space.

- **Application Log Files:** to store log files generated during the use of applications or sub-tools. You can click the button [Clean] to clear the log files.

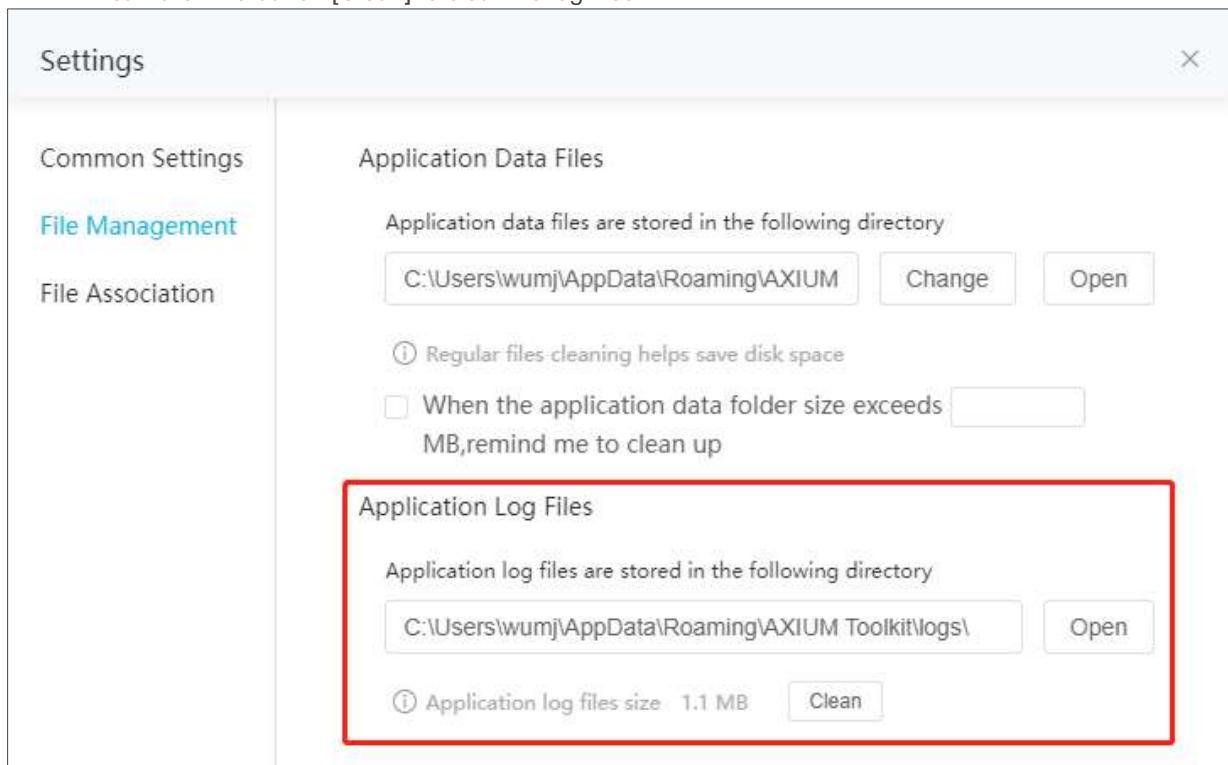


Figure 50

3.5.1.3 File Association

After associating the specified file type with the application, when you open these types of files in the system, the application will automatically start and import the file(s) directly. Currently supported file types: .uns.

Note: Only available on Windows systems.

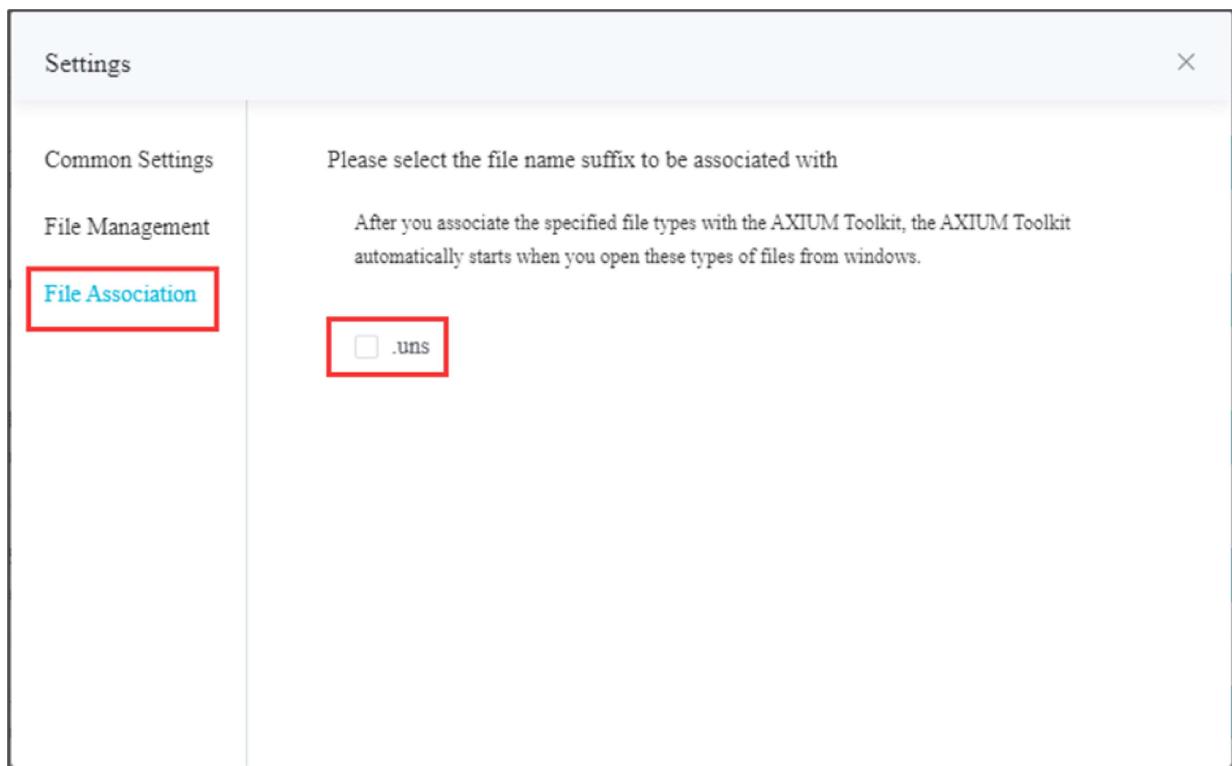


Figure 51

3.5.2 Drivers Manager

Driver management is used to manage all the drivers of the device, including driver installation, update, uninstall, repair and other functions to ensure that the connected device can be correctly identified by the applications and sub-tools.

Note: Only available on Windows systems.

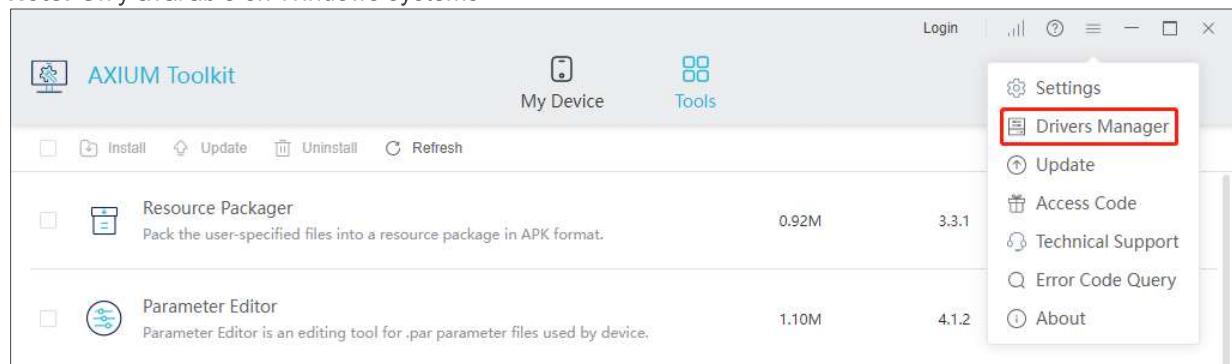


Figure 52

After opening the "Drivers Manager", the connection status between PC and device will be automatically detected. If you are prompted that the device is abnormal, you can repair it by clicking "Refresh" or "Install All" button.

"Open Device Manager": Open the device manager in Windows, which is usually used to diagnose whether the device is correctly connected and recognized.

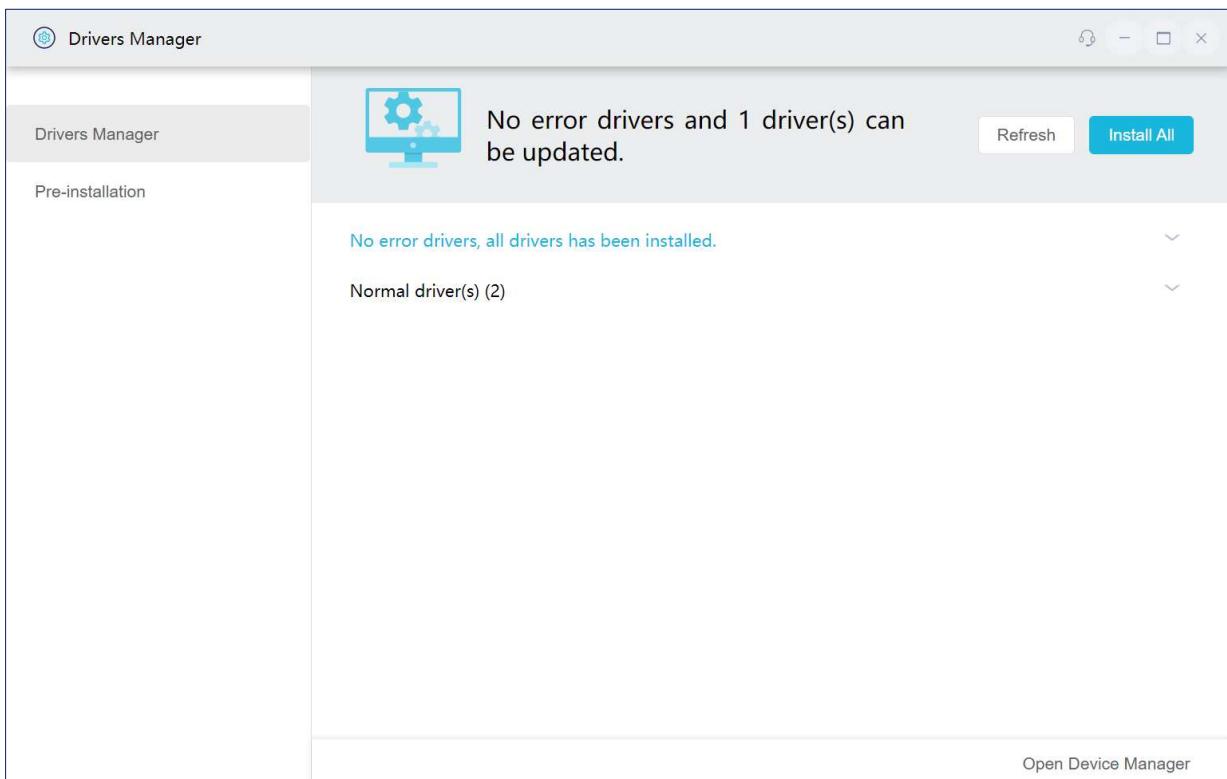


Figure 53

Display the current status after scanning:

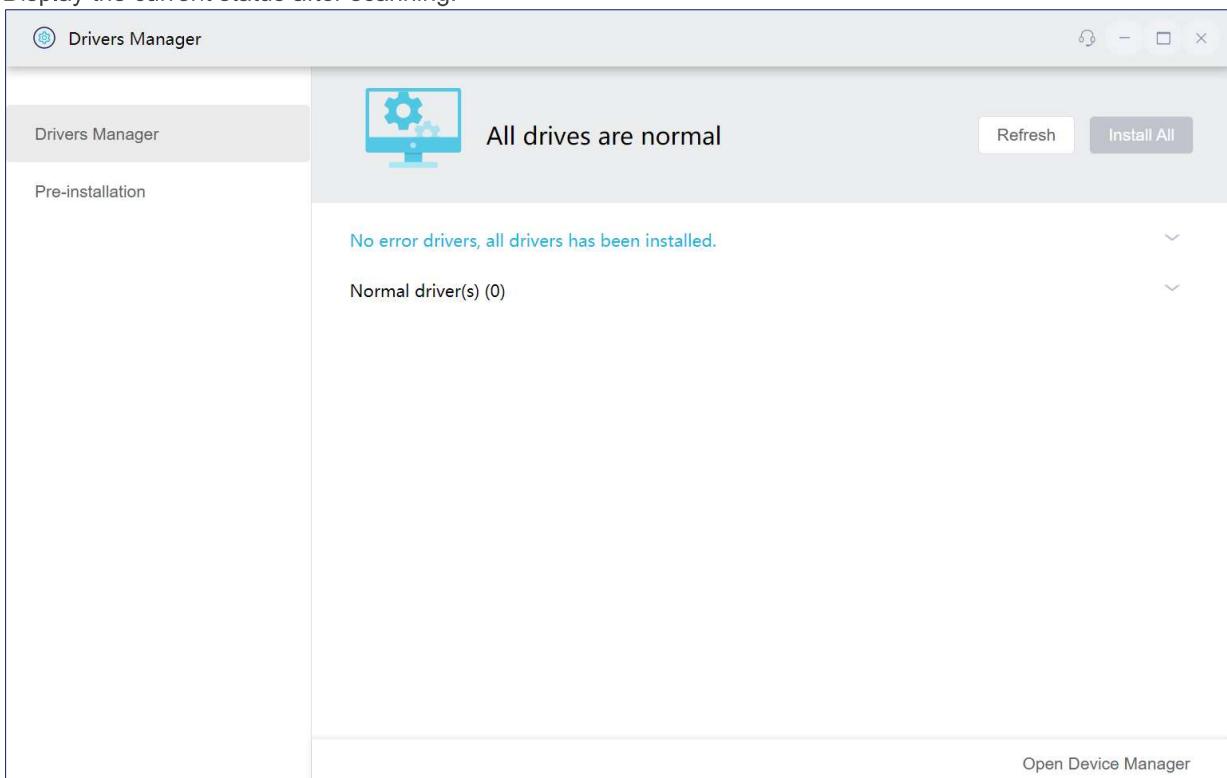


Figure 54

The scenario when the device is connected normally is as shown in the following figure.

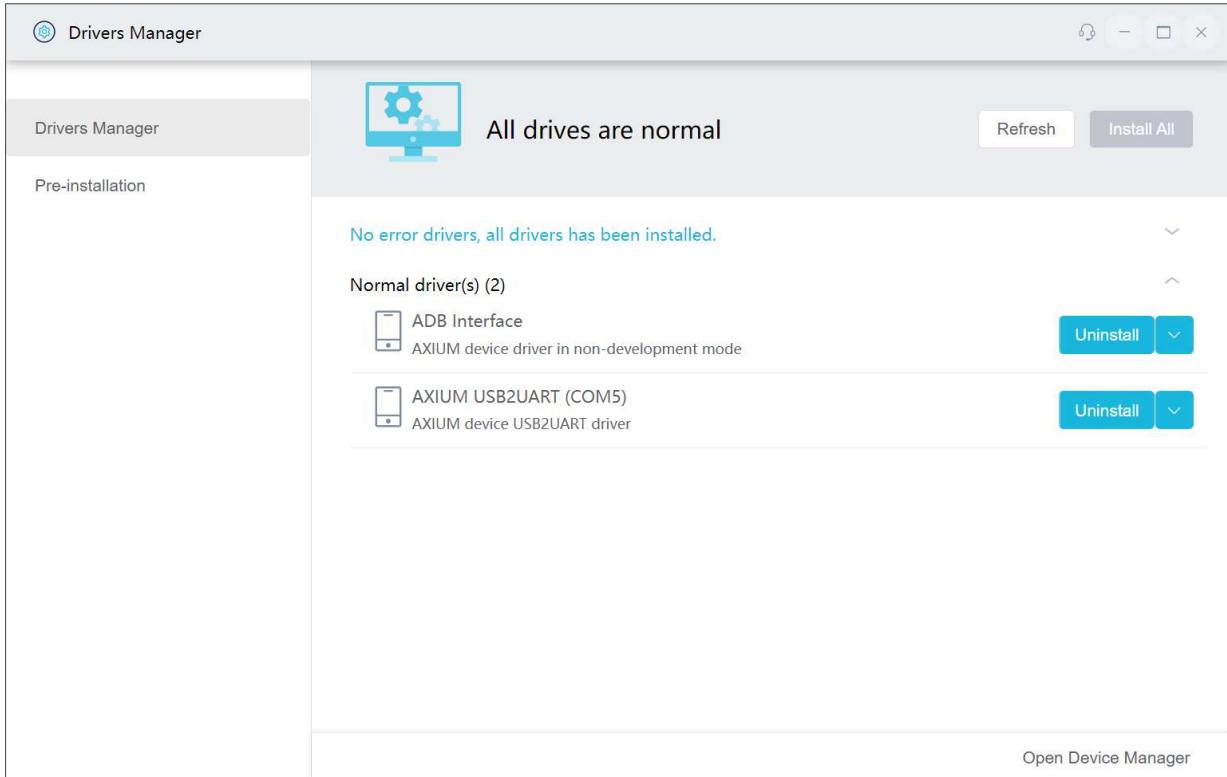


Figure 55

- **Installation:** When the tool displays that the connected device is not equipped with a driver as shown on the "Abnormal Driver" list. At this time, you can click "Install All", and the tool will automatically install all the abnormal drivers with corresponding drivers as well as updatable drivers in the normal driver list. That is, repair or upgrade the drivers.
- **Install All:** The tool will automatically install the installable drivers on all abnormal driver lists, and the updatable drivers on the previous normal driver lists.
- **Update:** The tool shows that the connected device has an updatable driver. At this time, click Update, and the tool will install a new version of the driver.
- **Uninstall:** If the user wants to uninstall the driver of corresponding device, click the Uninstall button, and the tool will prompt the user with relevant information first. After the user clicks OK, the driver will be uninstalled. The tool will automatically refresh the list to update the status after the uninstall is completed.
- **Refresh:** Retrieve the current driver list.
- **Open directory:** The tool will open the directory corresponding to the driver for viewing.

3.5.2.1 Pre-installation

"Pre-installation" is usually used to pre-install the drivers for all devices without connecting to them. However, in actual use, it is recommended to connect the device before installing the driver, so that the driver installer can identify the device more accurately.

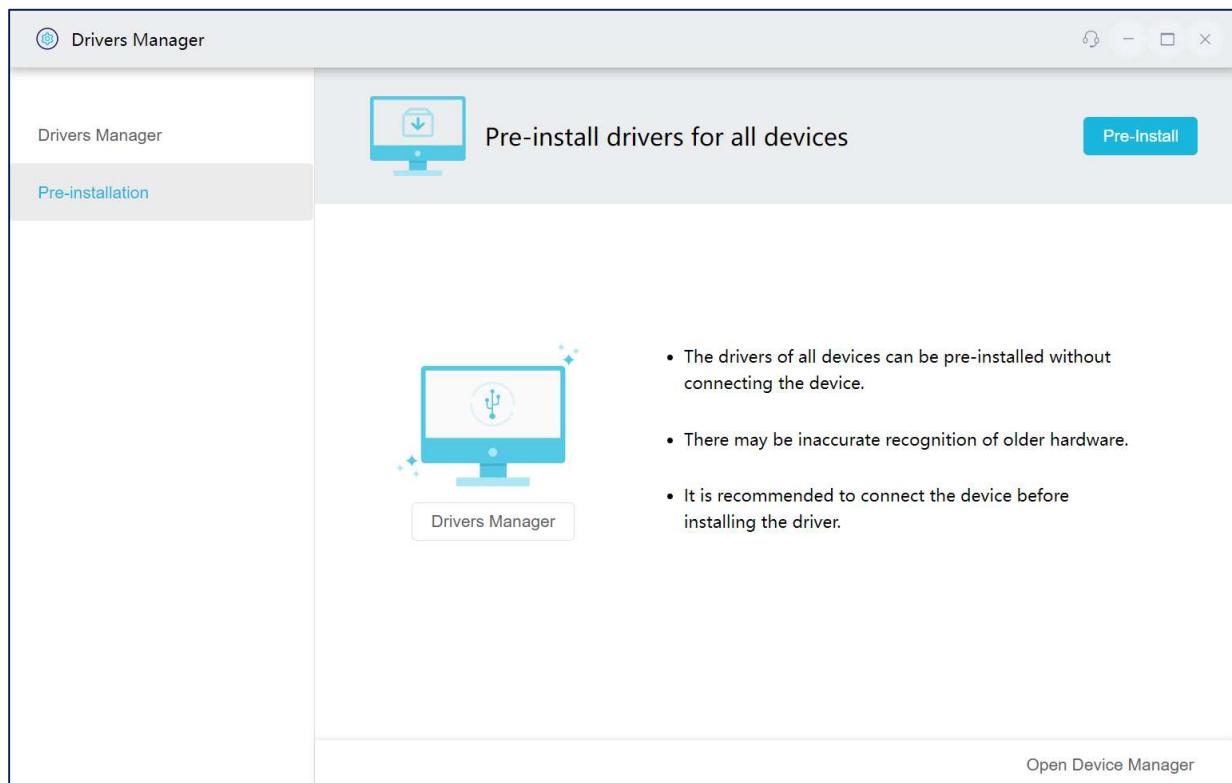


Figure 56

Click "Pre-install" and wait for the tool installation to be completed. The interface will display what is as shown in the following figure,

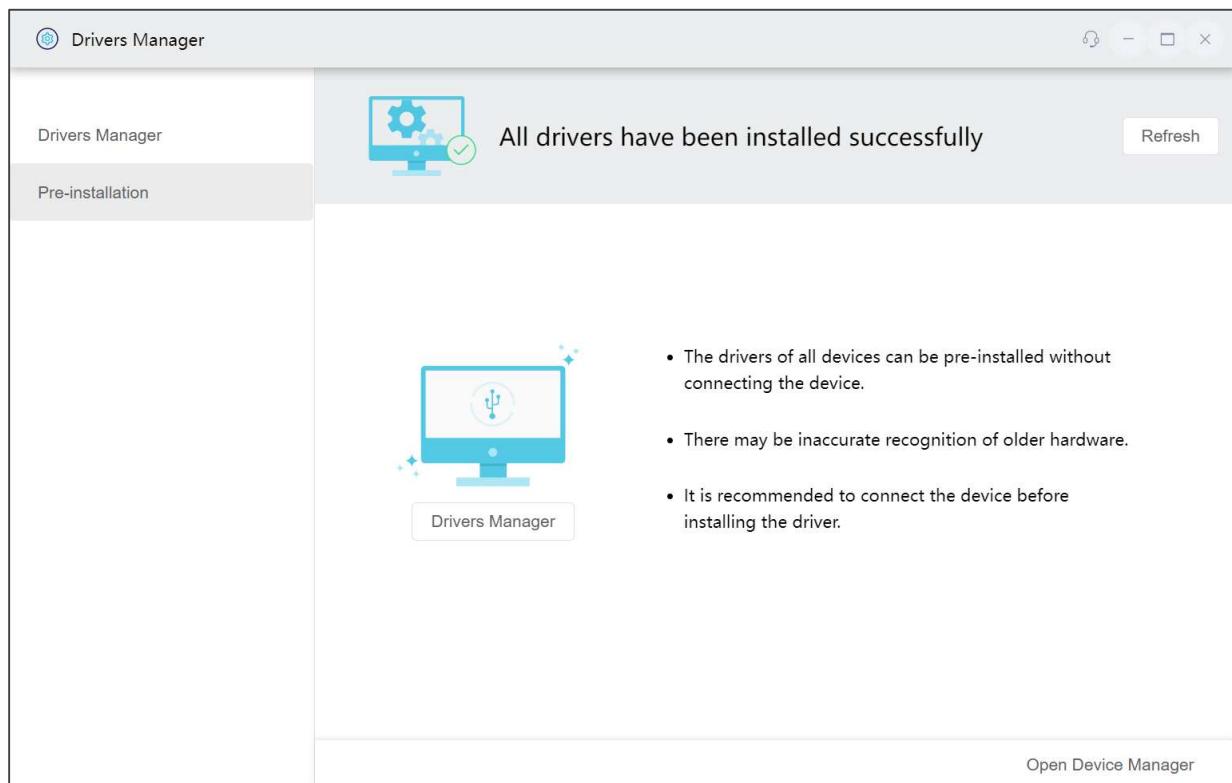


Figure 57

indicating that the driver has been pre-installed.

3.5.2.2 Open Device Manager

"Open Device Manager": Open the device manager in Windows, which is usually used to diagnose whether the device is correctly connected and recognized.

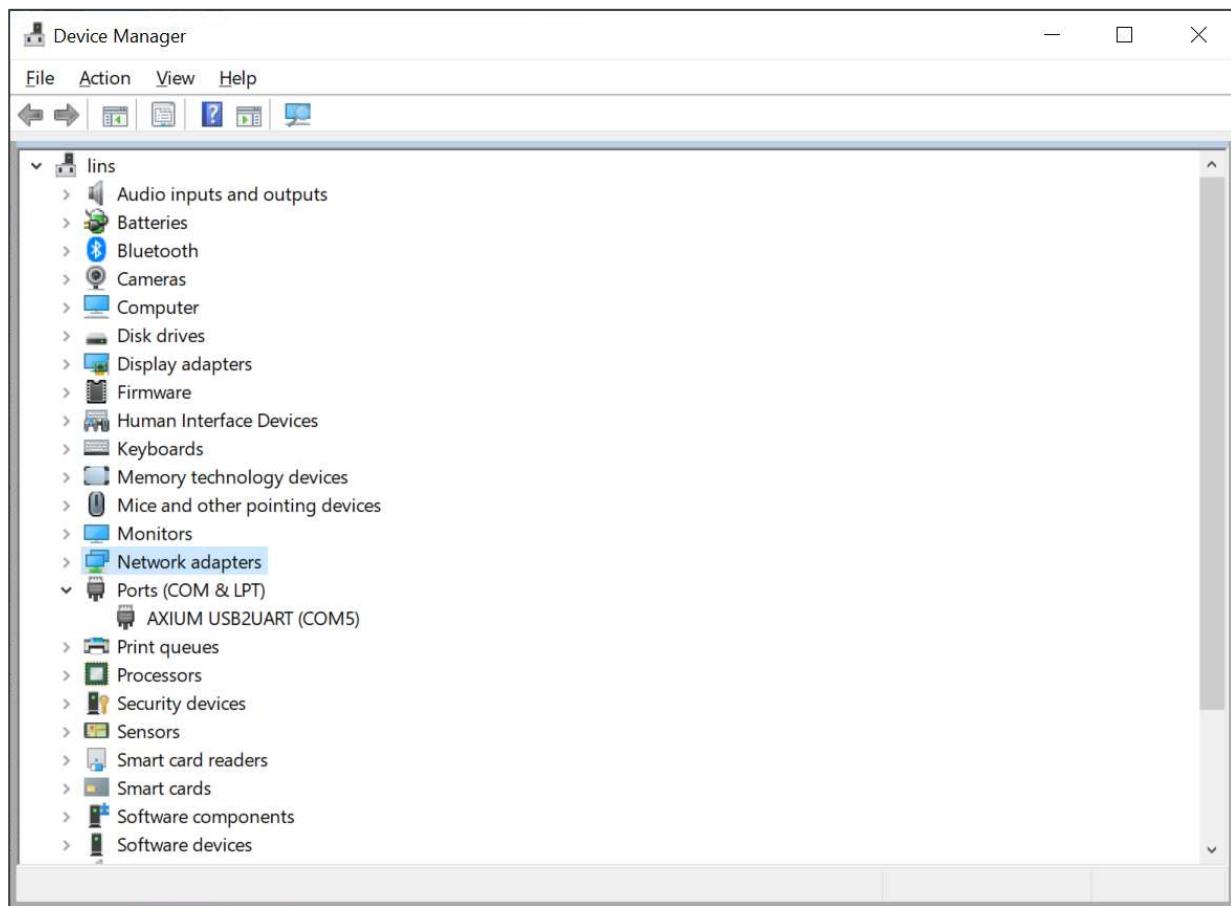


Figure 58

3.5.3 Update

User can quickly get the latest version and features of applications by updating them.

A small red dot will appear on the icon in the upper right corner when there is new version to be updated. The update interface of application will automatically pop up when there is new version, and then you can update selectively, or click the "Update" button to check when there is a new version.

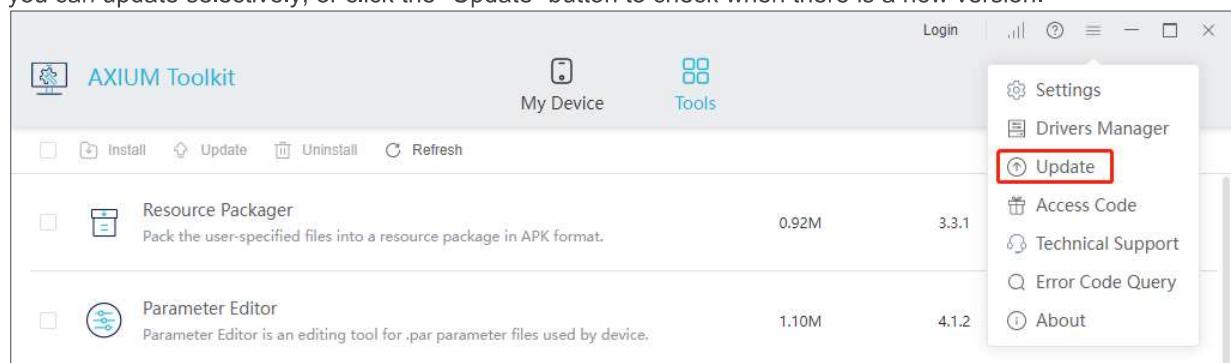


Figure 59

When there is no new version:

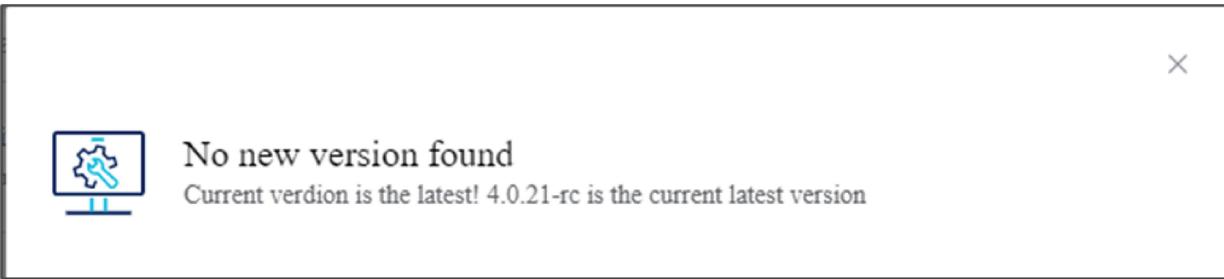


Figure 60

The following page will pop up when there is new version, please click [Update] to update the version.



Figure 61

Note: If the online update fails, it is recommended that you manually uninstall the old version and then manually install the new version of the "AXIUM Toolkit" application. You can refer to the following operations: Windows system:

1. Restart Windows. Do not open the old version "AXIUM Toolkit" after restart.
2. Uninstall "AXIUM Toolkit" in Windows "Settings"/"Applications".
3. After downloading the new version of the "AXIUM Toolkit", click to install.

MacOS system:

1. Close the old version "AXIUM Toolkit" if opened.
2. Remove "AXIUM Toolkit" to the Trash in the "Applications".
3. After downloading the new version of the "AXIUM Toolkit", click to install.

3.5.4 Access Code

The four-digit access code will be generated to obtain customized or beta version tool(s).

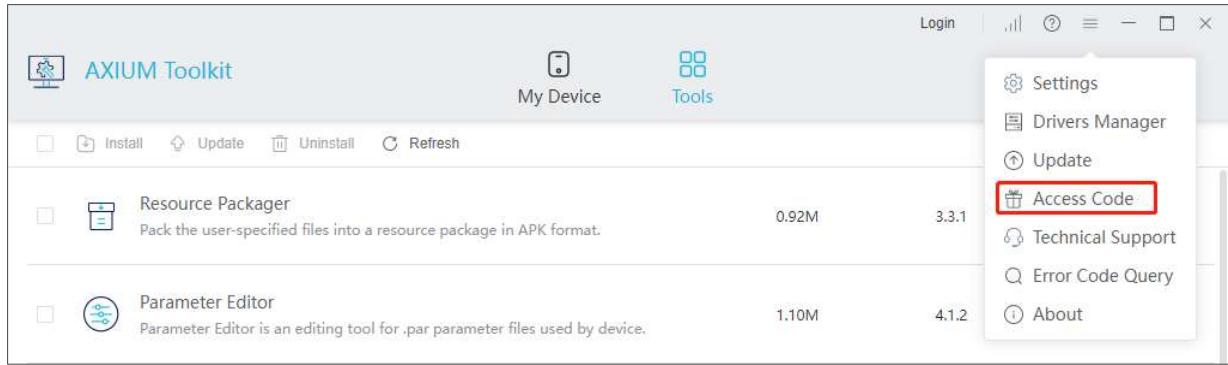


Figure 62

Open the page and input the four-digit access code in the field.
The button [Extract] turns blue when the input access code is correct. Click [Tools] to go to the tool list.

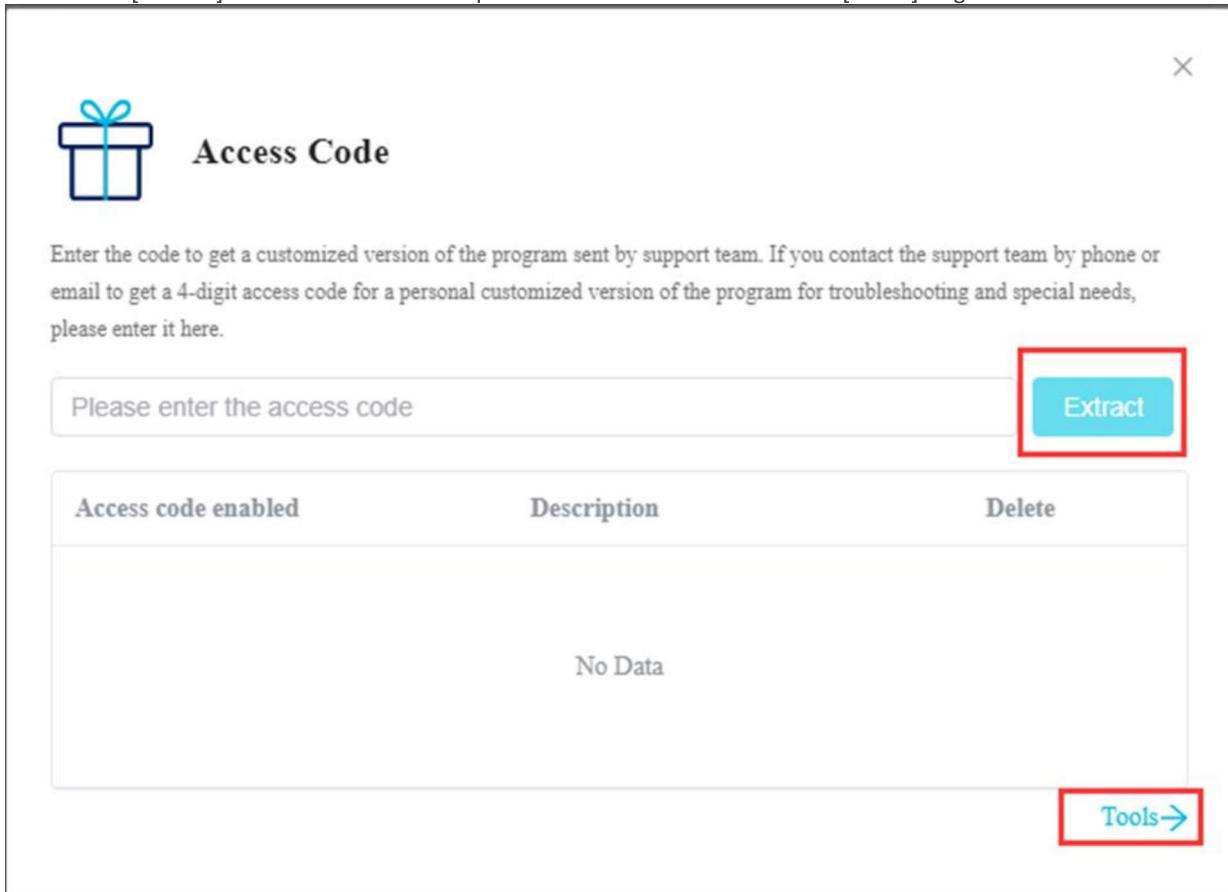


Figure 63

3.5.5 Technical Support

When the application reports an error, user can upload the log for the support team to check issues.

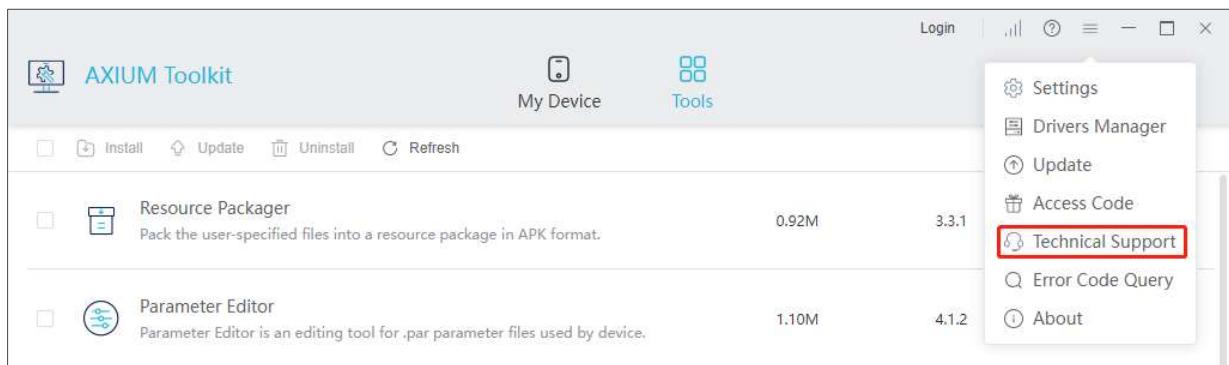


Figure 63

Enter into Technical Support, input the details of problem that you have encountered. In order to better describe your problem, it is recommended to take a screenshot of the issue and upload it, and finally click "Submit". In this way, the application will automatically collect the logs and upload them.

This screenshot shows the 'Technical Support' dialog box. At the top left is the title 'Technical Support' and at the top right is a close button ('X'). Below the title are two tabs: 'Issues' (which is selected) and 'Log'. A note below the tabs states: 'Note: the log only contains the information generated when the program is running, and does not include information such as user privacy.' A large text area with a red border contains the instruction: 'Please describe your problem in as much detail as possible so that we can better assist. For example: the time of the problem, the operation steps, whether it is repeating, etc.' Below this text area is a dashed square placeholder with a plus sign (+) in the center, intended for a screenshot or file upload. At the bottom right of the dialog is a blue 'Submit' button.

Figure 64

After submitting the issue description, copy the log name and send it to the technical support team.

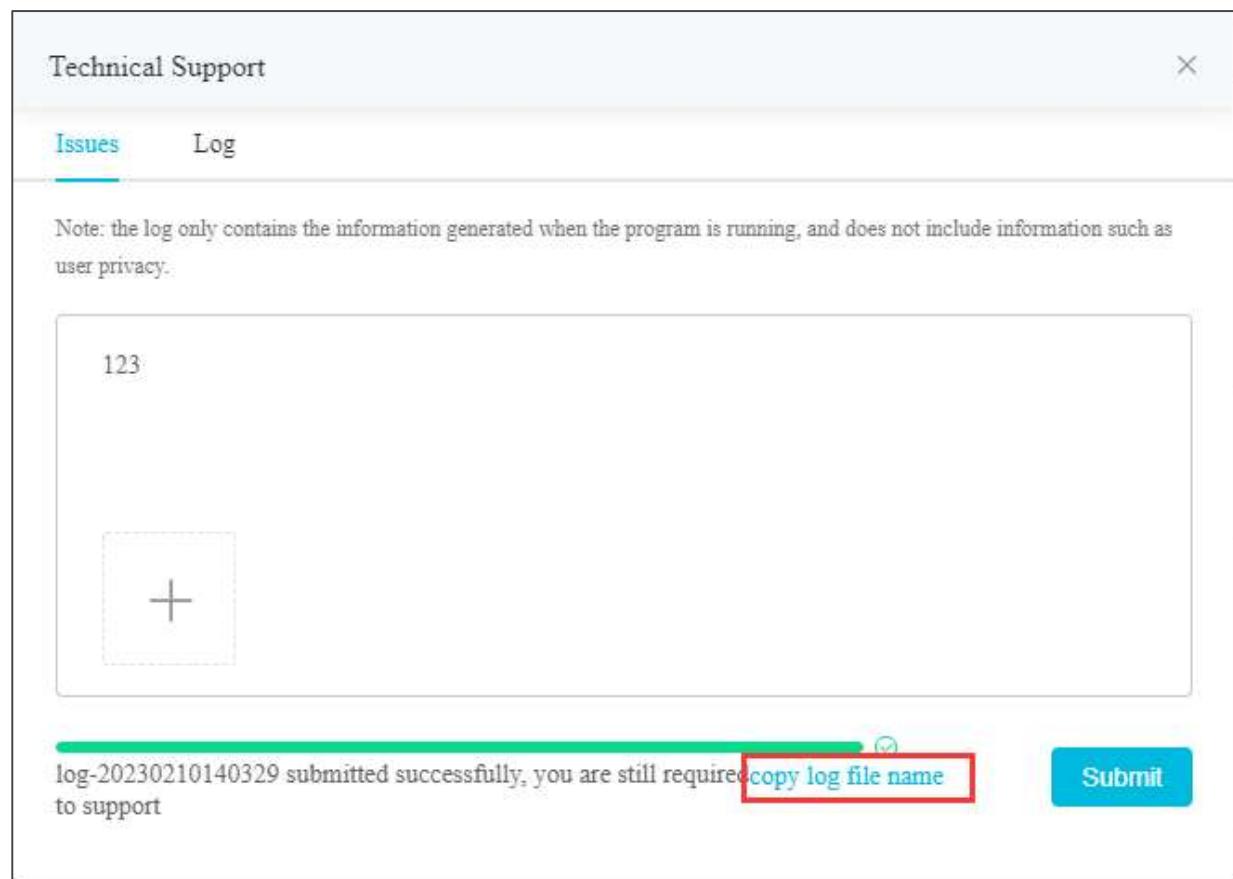


Figure 65

You can view all submitted problems in history log.

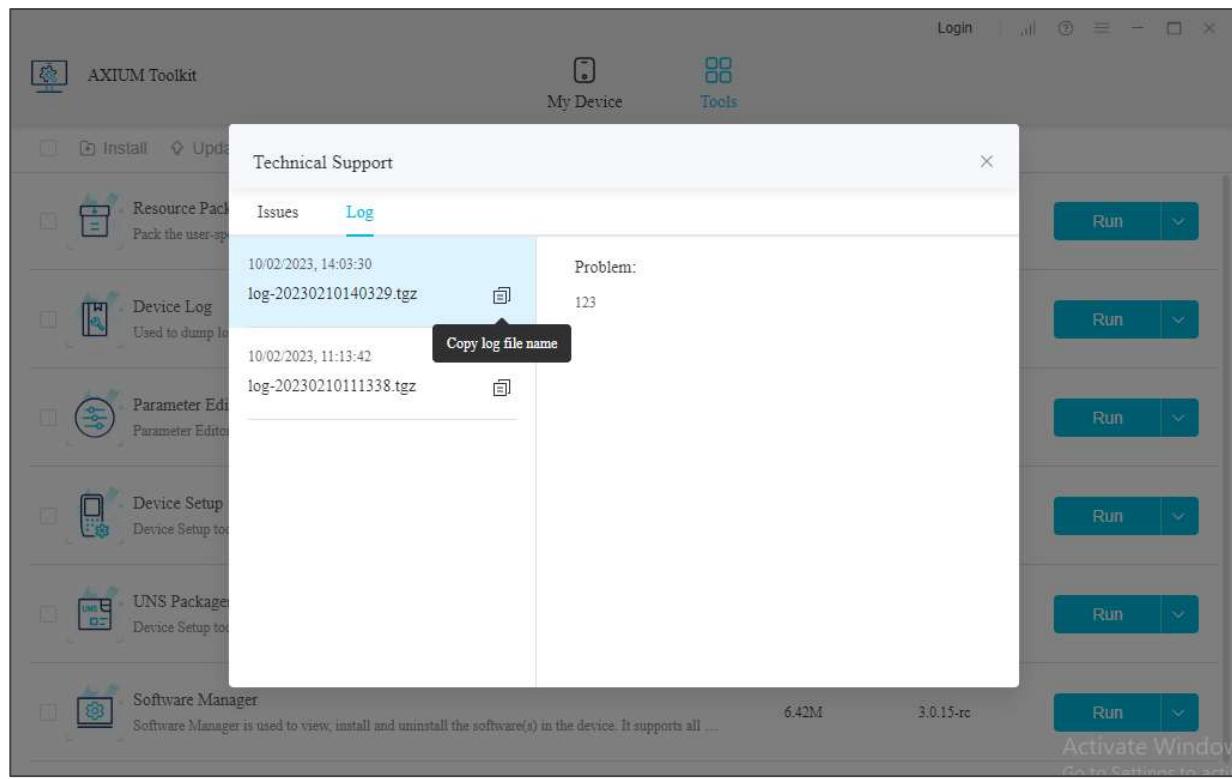


Figure 66

If the log name of submitted problems is required for the reference of technical support staff, copy it in the history log and send it to relevant personnel.

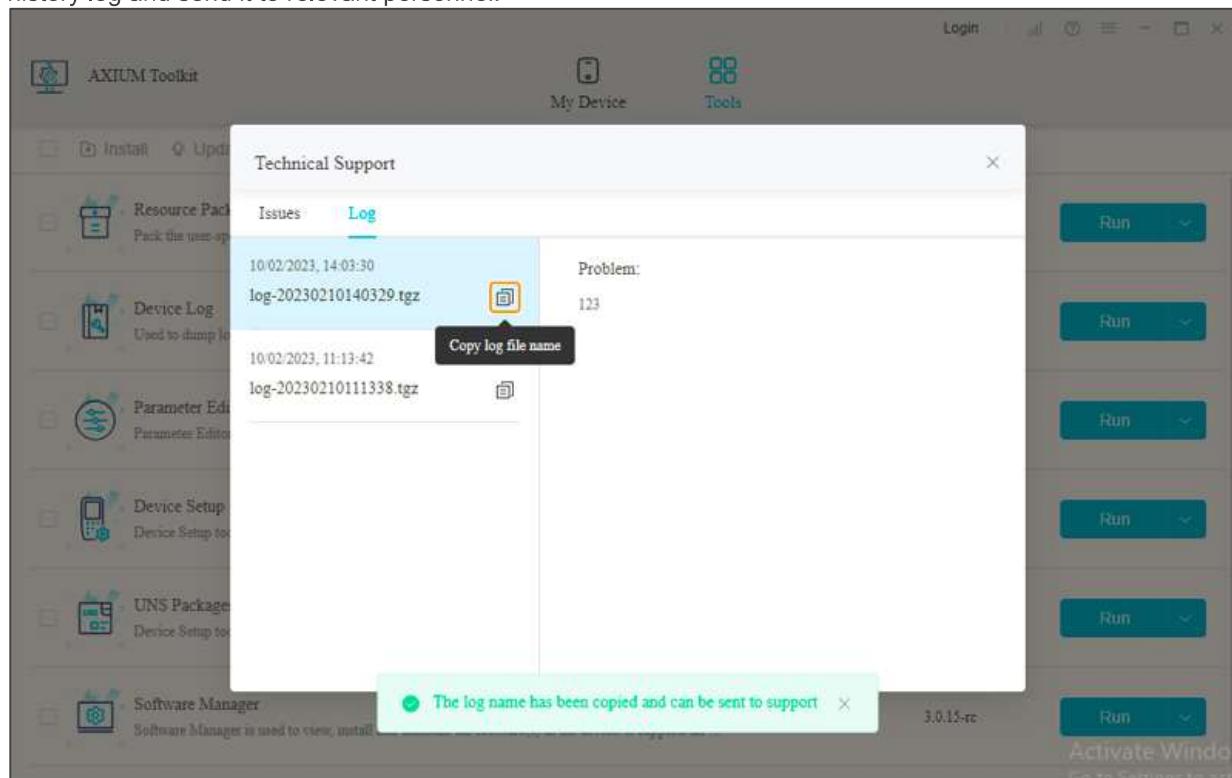


Figure 67

3.5.6 Error Code Query

Click [Error Code Query] will open the [Error Code Query System](#). You can query the error details based on the error code.

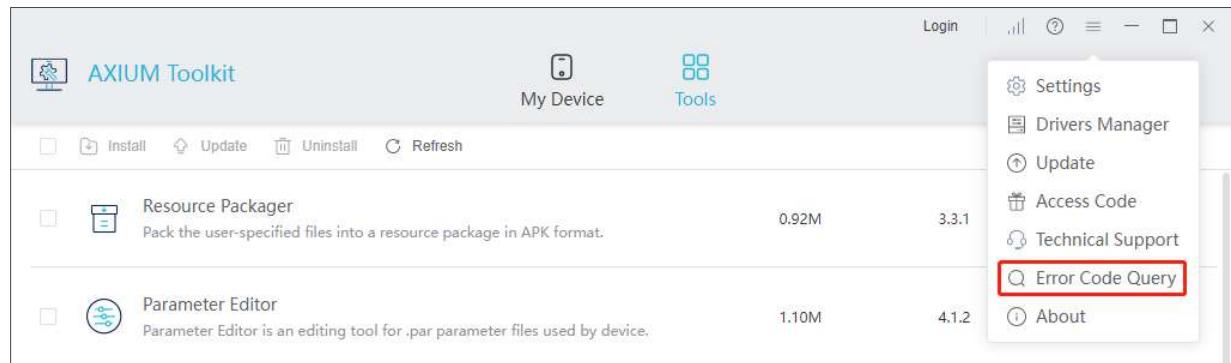


Figure 68

3.5.7 About

Check the application version, the installed sub-tools version, and Machine code.

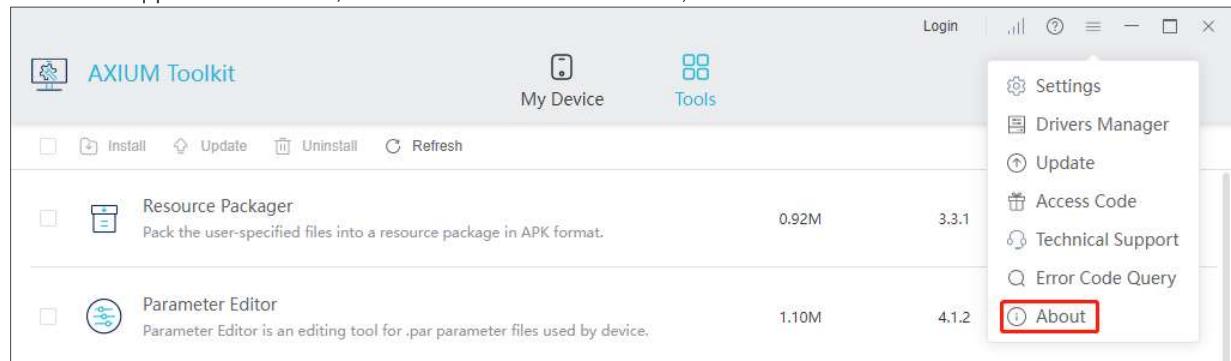


Figure 69

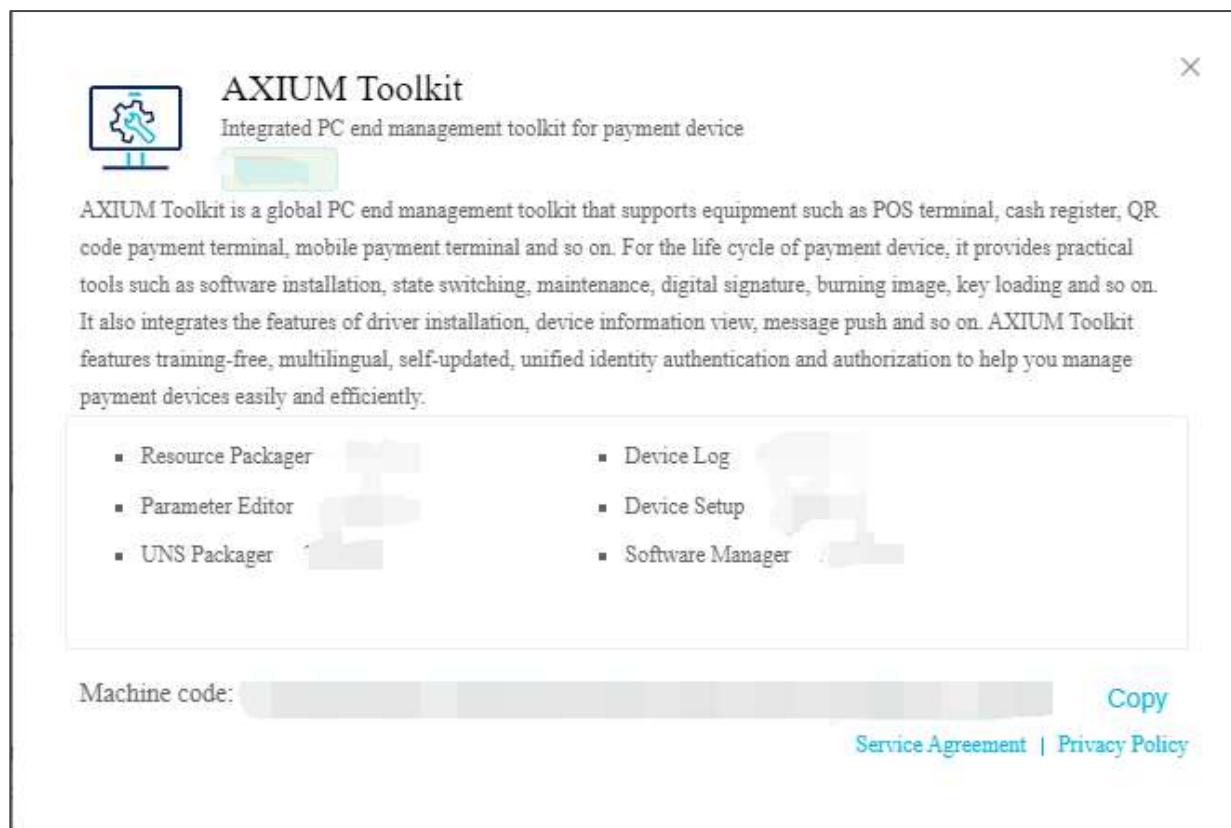


Figure 70

Click to copy the Machine code.

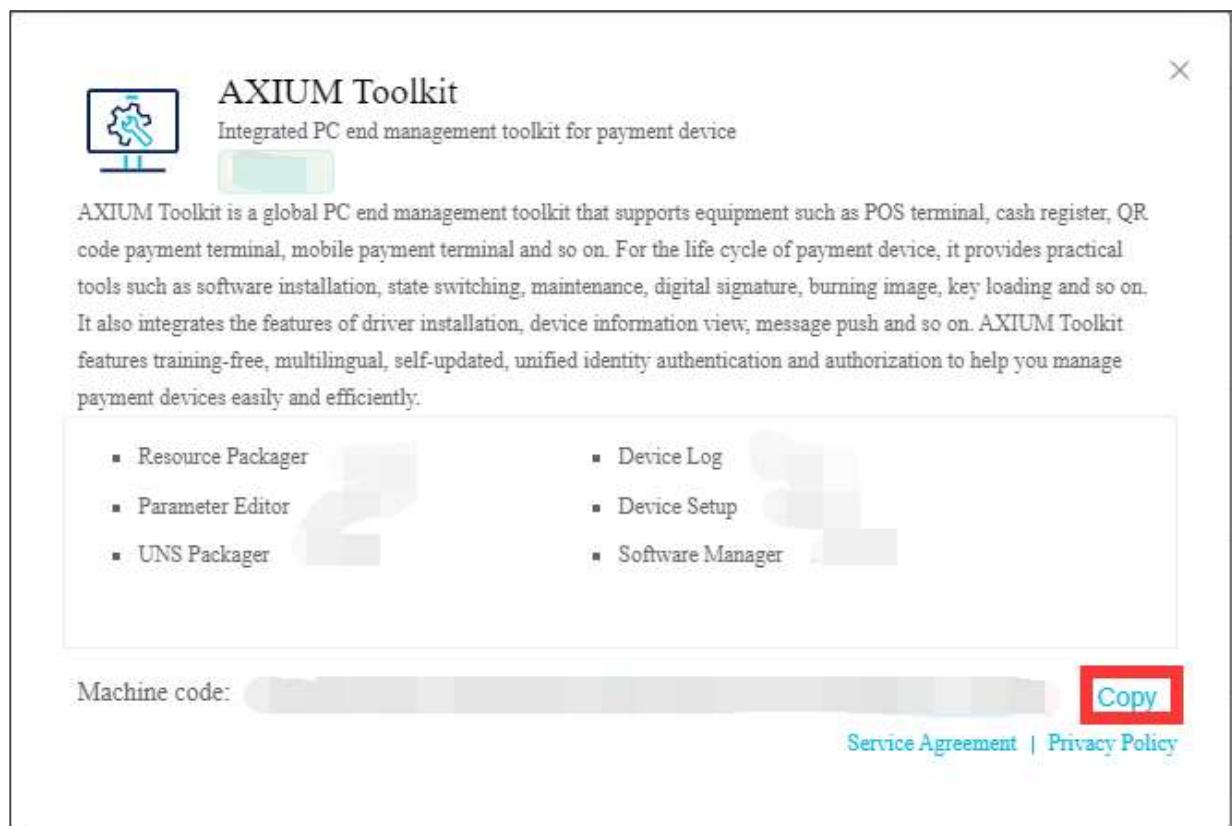


Figure 71

Click "Service Agreement" to view the <AXIUM Toolkit Service Agreement> and "Privacy Policy" to view the <AXIUM Toolkit Privacy Policy>.

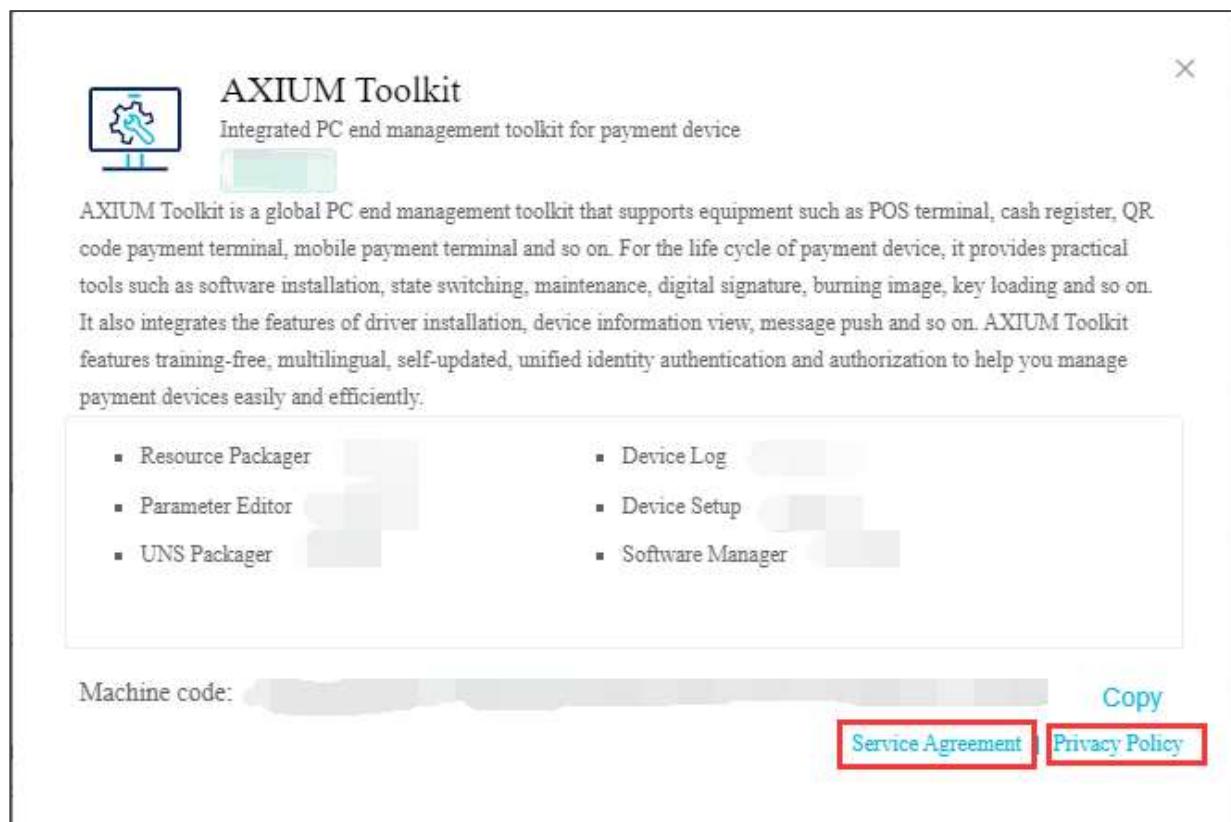


Figure 72

3.6 Network Monitoring

When you encounter network problems during tool use, you can use the "Network Monitoring" function to check whether the network is normal. Move the mouse to , the detailed network connection status can be displayed, including packet loss rate, average delay, and maximum and minimum delay information.

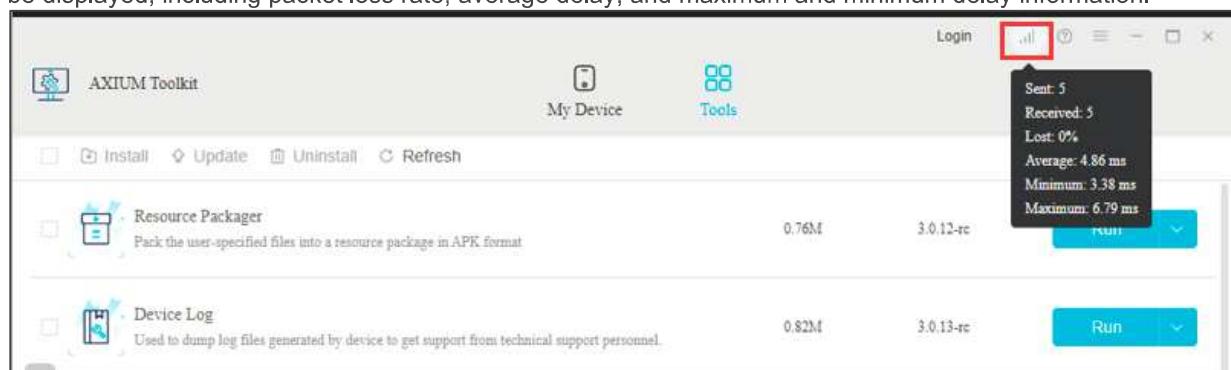


Figure 73

When the network is unavailable, the icon is displayed as . It is recommended to check whether the PC network is available.

Click  further to pop up a window that displays the network status of each server connected by the tool  in real time. When the icon  displayed, it indicates that the server cannot be connected, and it is recommended to check the PC and LAN network. If there is no problem with the local network, you can submit "Technical Support" for help.



Figure 74

3.7 Uninstall

3.7.1 Windows Uninstall

In Window system, search and open the control panel, find the Programs section, and then click [Uninstall a program] to uninstall.

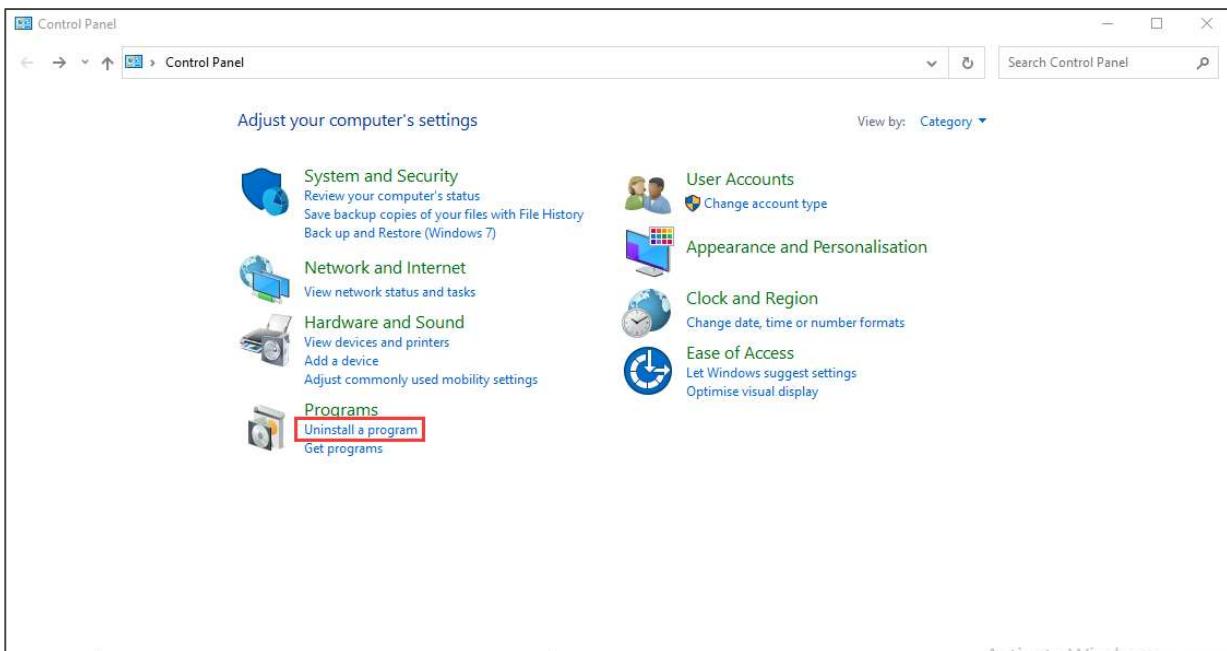


Figure 75

Find “AXIUM Toolkit” and uninstall it.

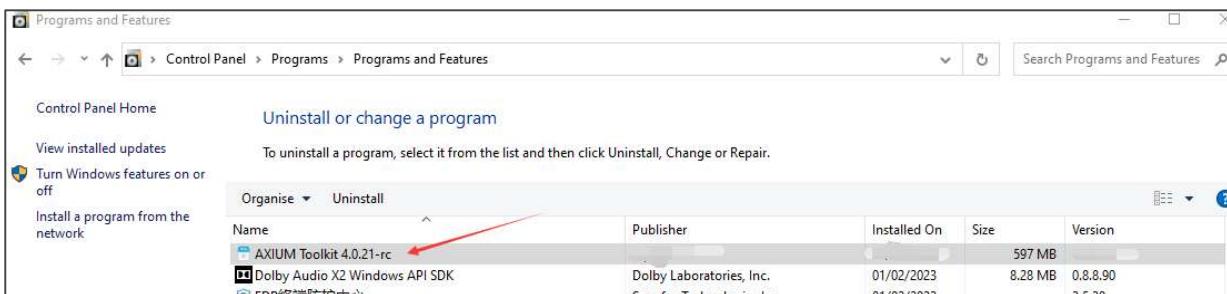


Figure 76

The uninstall page will pop out, and the option “Keep user data” is ticked by default. If you untick it, all related user data will be deleted when uninstalling, including various application configuration data, downloaded temporary files, history, application logs, etc. Next, click [Next].

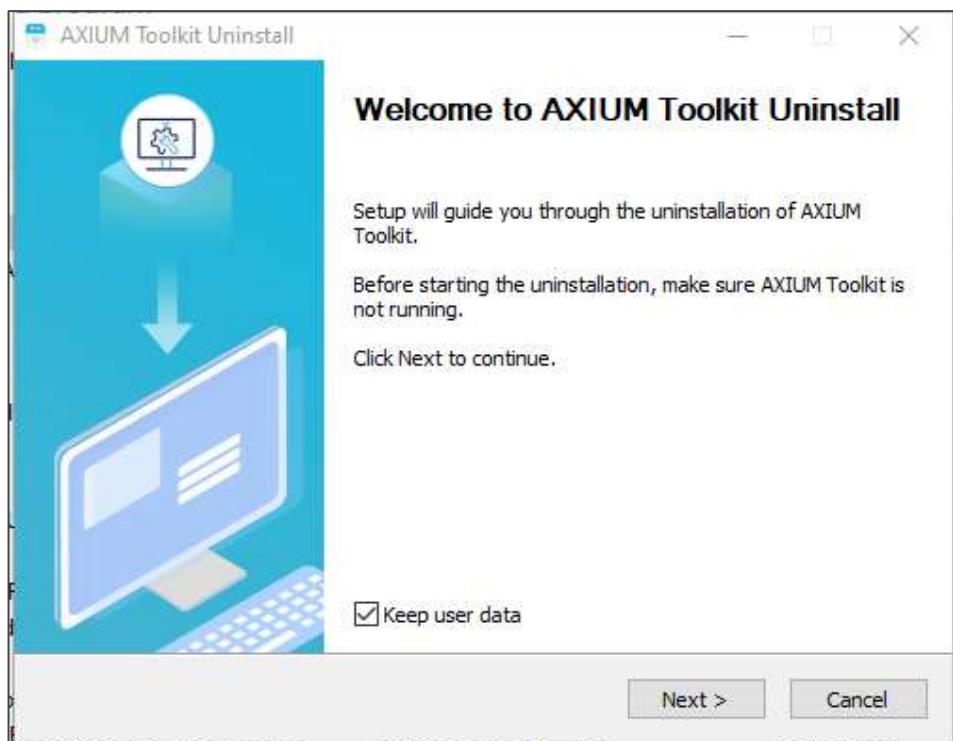


Figure 77

Uninstalling:

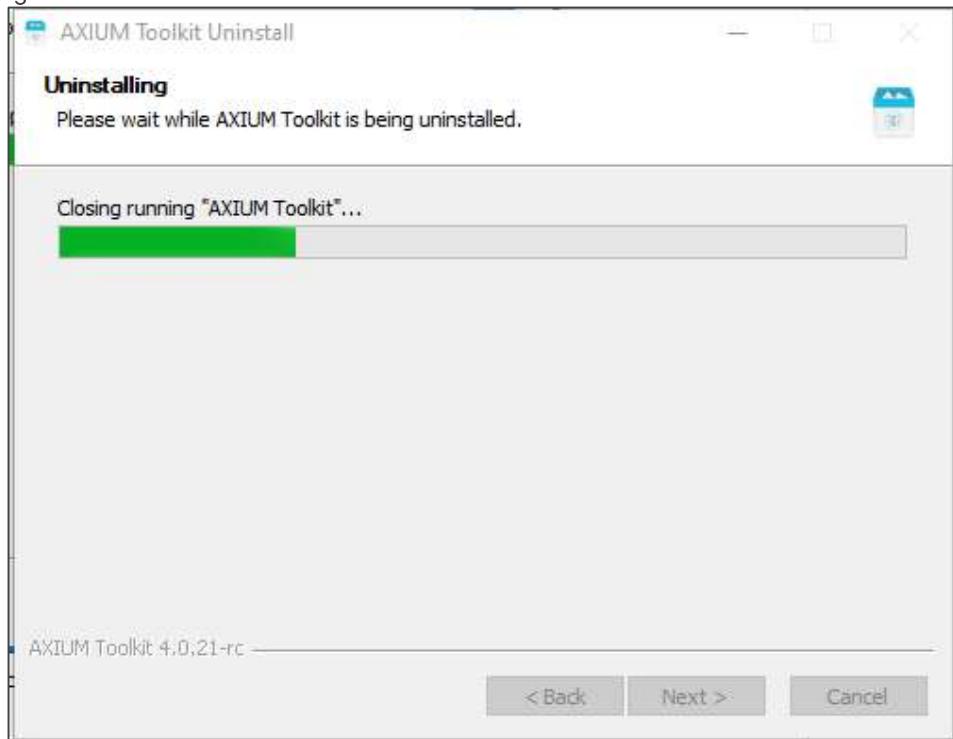


Figure 78

Uninstalled:

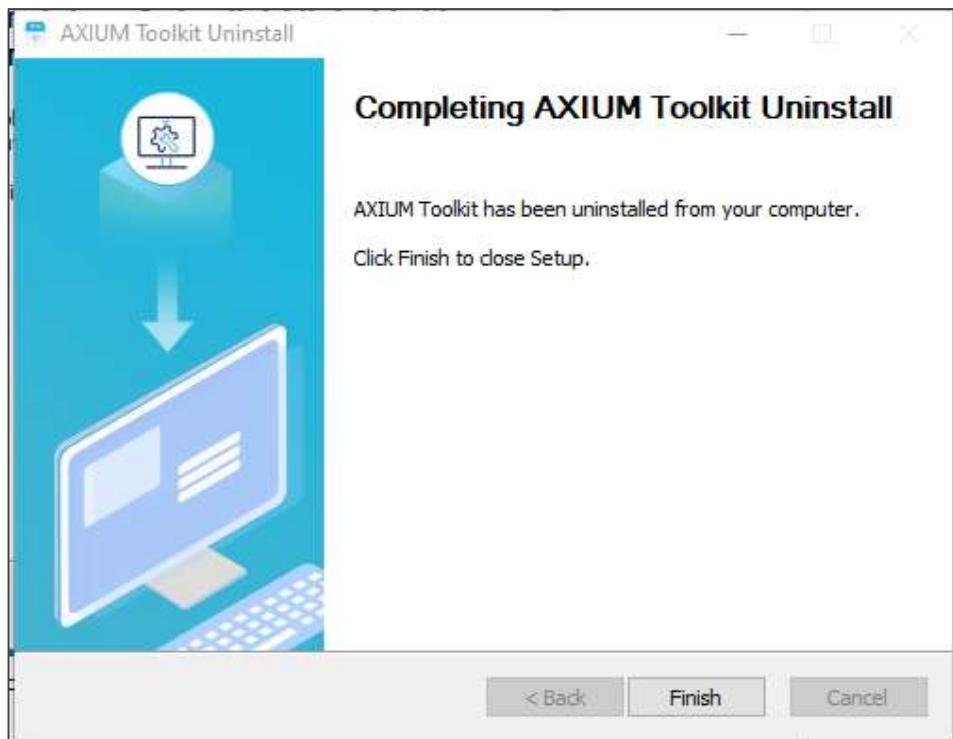


Figure 79

3.7.2 MacOS Uninstall

Open the “Finder”, and then click directory “Applications” to find the application “AXIUM Toolkit”.

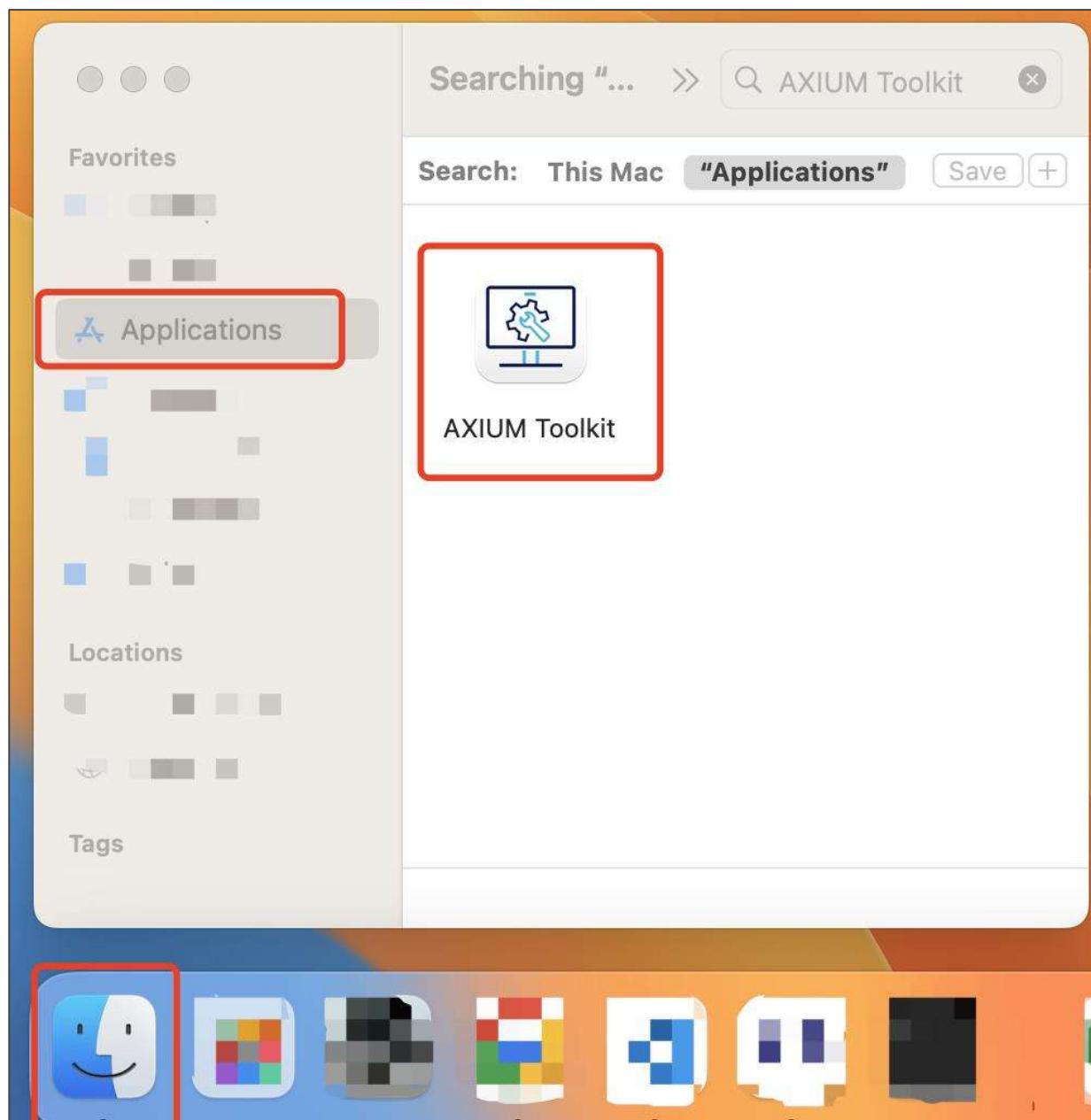


Figure 80

Select the application and right click “Move to Trash”.

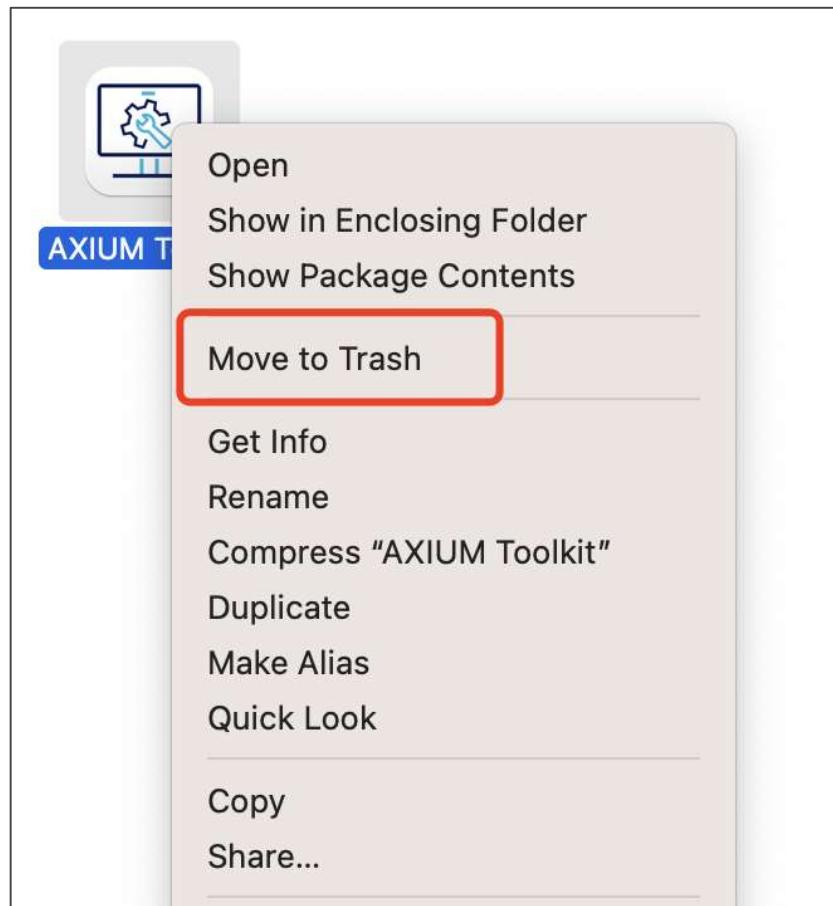


Figure 81

Open “Trash,” and click “Empty” to uninstall successfully.

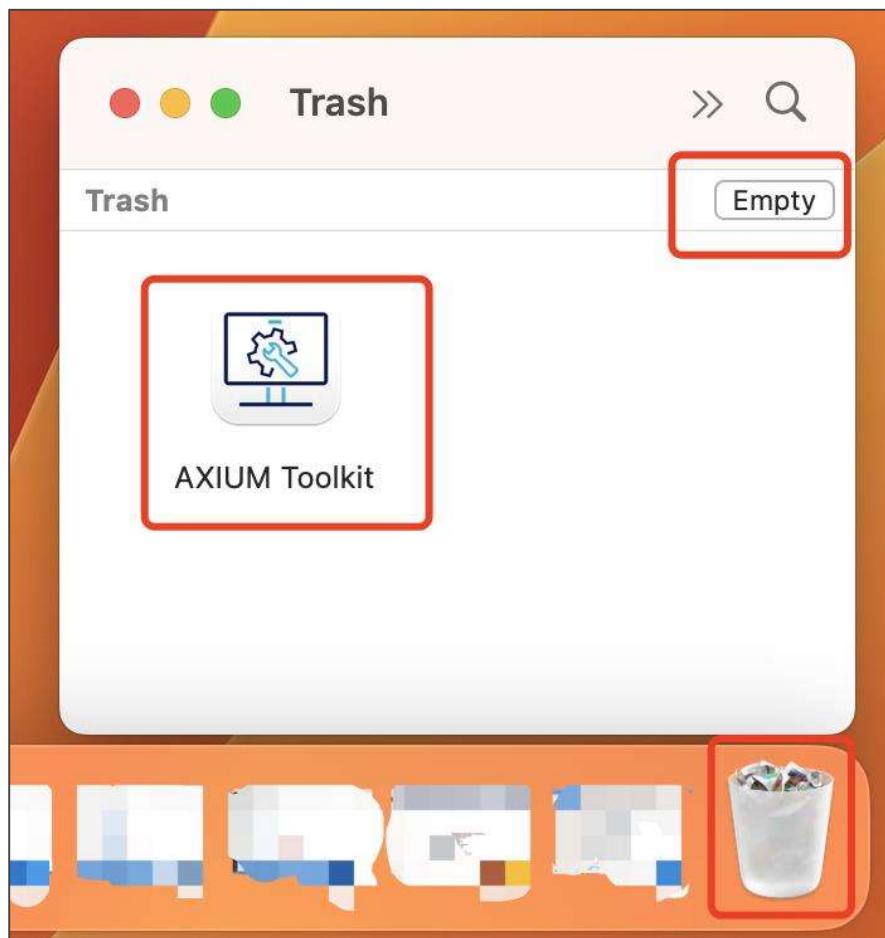


Figure 82

4 Command Line

You can write automation scripts and connect your device to other systems through the command line. You can also call the command line to achieve some batch operations, automated testing and other operations. Press "Win" + "R" key combination, type cmd, open the cmd program, and type "toolkit-cli" to see the command line supported by functions.

```
C:\Users\maohj>toolkit-cli  
AXIUM Toolkit V4.3.5
```

Usage:

```
$ toolkit-cli <command> [options]
```

Commands:

load	Device Software Manager
uns	UNS Packager
launch-app	Launch Specified Application
unload	Unload Specified Application
device-info	Obtain device information
quit-all	Forced to exit all running Toolkit CLI programs

For more info, run any command with the `--help` flag:

```
$ toolkit-cli load --help  
$ toolkit-cli uns --help  
$ toolkit-cli launch-app --help  
$ toolkit-cli unload --help  
$ toolkit-cli device-info --help  
$ toolkit-cli quit-all
```

Options:

-v, --version	Display version number
-h, --help	Display this message

Figure 83

4.1 Grammar

```
toolkit-cli <command> [options]
```

4.1.1 Sub-commands

- load: Device Software Manager
- uns: UNS Packager
- launch-app: Launch Specified Application
- unload: Unload Specified Application
- sign: Sign the files
- device-info: Obtain device information
- quit-all: Forced to exit all running Toolkit CLI programs

For each sub-command, you can use the parameter "-h | - help" to view the usage and parameters of each subcommand:

```

C:\Users\Liyyq>toolkit-cli load -h
toolkit-cli v1.2.0
toolkit-cli service v1.3.0

Usage:
$ toolkit-cli load

Options:
--file <filename>          Please enter the path to download the file
--cat <catalogueName>        Please enter the path to the download catalog
--push <file|cat>            Push file or catalogue to terminal
--port-id [portId]           Please enter port number. Only valid in windows OS.
--clean                      To wipe the terminal content before loading
--reset                      Reboot
--sn                         Please enter terminal SN
-h, --help                   Display this message

```

Figure 84

4.1.2 Options: General parameters

The generic parameters of options is a set of parameters that can be used with any toolkit-cli command, but they may not work for all commands.

- --version (-v)

This parameter is usually used independently and can be used directly with the toolkit-cli command to view the version information of toolkit-cli. Type the following command:

toolkit-cli --version

- --help (-h)

Show help information.

This parameter is usually used independently and can be used directly with the toolkit-cli command to view help information for toolkit-cli. Type the following command:

toolkit-cli --help

This parameter can also be used with toolkit-cli and subcommands to view help information for the subcommands. For example, type the following command:

toolkit-cli load --help

4.2 uns Sub Command

4.2.1 Parameters

--action <add delete pack list pick>	add, Add file delete, Delete index pack, Pack file list, View the loaded file list pick, Pick module
--file <fileName>	the absolute path of file to be packed
--type <update replace delete>	Update strategy of setting file update replace, delete,
--save <savePath>	Absolute path of saving files
-clear	Whether to clear the installed applications on the device.

--index <indexNumber>	Delete the index of file
--moduleVersion <ModuleName:version>	Device's module name and module version, such as: Basic:1.5.0,1.6.0.
--addObjectVersion	Add object version column to display when listing

4.2.2 View the File List

- Command
toolkit-cli uns --action list [--addObjectVersion]
- Parameter

--addObjectVersion	Add object version column to display when listing
--------------------	---
- Example
 - View the list of loaded files with file index, file type, module name, version number and update policy.

```
C:\Users\Liyyq>toolkit-cli uns --action add --file E:\0.uns
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[success] Loaded successfully E:\0.uns
[success] Success

C:\Users\Liyyq>toolkit-cli uns --action list
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] ID | TYPE | MODULE NAME | VERSION | UPDATE POLICY
[info] 1 | STAR-5610-PAR | MinPara | 1.0 | update
[success] Success
```

Figure 85

- View the list of loaded files with file index, file type, module name, version number, update policy and object version.

```
C:\Users\maohj>toolkit-cli uns --action list --addObjectVersion
AXIUM Toolkit V4.8.3-beta
AXIUM Toolkit CLI Service V3.1.1
[info] ID | TYPE | MODULE NAME | VERSION | UPDATE POLICY | OBJECT VERSION
[info] 1 | EPT-AND-OTA | Component | 1.70.0 | update | 1.4.0
[info] 2 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.5.0
[info] 3 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.6.0
[info] 4 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.7.0
[info] 5 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.8.0
[info] 6 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.9.0
[info] 7 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.10.0
[info] 8 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.11.0
[info] 9 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.12.0
[info] 10 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.13.0
[info] 11 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.14.0
[info] 12 | EPT-AND-OTA | Basic | 1.16.0 | update | 1.15.0
[info] 13 | EPT-AND-OTA | Basic | 1.16.0 | update |
[success] Success
```

Figure 86

4.2.3 Add File

Add files to the list and you can specify the update policy.

Only files like 'uns', 'par', 'pkg', 'apk', 'dla', 'bin', 'sgn', 'crt', 'zip', 'xml' are supported to be added.

- Command

```
toolkit-cli uns --action add --file <fileName> [--type <update | replace | delete>]
```

- Parameter

--file <fileName>	Required, the absolute path of the file to be packed
--type <update replace delete>	Optional, set the update policy for the file update, default replace delete

- Example

- Add the "0.sgn" file and set the update policy to replace.

```
C:\Users\Liyyq>toolkit-cli uns --action add --file E:\ESSP_00390010200.apk --type replace
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[success] Loaded successfully E:\ESSP_00390010200.apk
[success] Success

C:\Users\Liyyq>toolkit-cli uns --action list
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] ID      | TYPE           | MODULE NAME          | VERSION        | UPDATE POLICY
[info] 1       | STAR-5610-PAR  | MinPara              | 1.0            | update
[info] 2       | EPT-AND-APK    | com.android.essp.id_00390 | 01.02.00     | replace
[success] Success
```

Figure 87

- Exception

- The file path is a relative path.

```
[error] Please enter the absolute path of the a.apk file
```

- File does not exist.

```
[error] a.apk file not found
```

- Not supported file type

```
[error] The file type of 91.log is not supported
```

- Duplicate files

```
[error] E:\Project\AxCloud\axtoolkit-cli\docs\test\testfiles\ums\file\0.sgn duplicate file with index 1, please remove it first
```

4.2.4 Delete File

Delete loaded files. When no specific file is specified, all loaded files will be deleted.

- Command

```
toolkit-cli uns --action delete -- [index <indexNumber>]
```

- Parameter

--index <indexNumber>	Optional, when this parameter is not filled, all files will be deleted
-----------------------	--

- Example

Delete files with index 3 and 7.

```
C:\Users\Liyyq>toolkit-cli uns --action list
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] ID | TYPE | MODULE NAME | VERSION | UPDATE POLICY
[info] 1 | STAR-5610-PAR | MinPara | 1.0 | update
[info] 2 | EPT-AND-APK | com.android.essp.id_00390 | 01.02.00 | replace
[success] Success

C:\Users\Liyyq>toolkit-cli uns --action delete --index 1
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[success] Success

C:\Users\Liyyq>toolkit-cli uns --action list
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] ID | TYPE | MODULE NAME | VERSION | UPDATE POLICY
[info] 1 | EPT-AND-APK | com.android.essp.id_00390 | 01.02.00 | replace
[success] Success
```

Figure 88

Error
■ Wrong index
[error] Abnormal index value, exceeding the maximum value or less than 1 or not assigned or the value is wrong

4.2.5 Pack

Take the loaded files and pack them into UNS.

- Command
toolkit-cli uns --action pack --save <savePath> [--file <fileName>] [--type <update | replace | delete>] [--clear]

- Parameter

--save <savePath>	Required, the absolute path to be saved
--file <fileName>	Optional, the absolute path of the files to be packed
--type <update replace delete>	Optional, set the update policy for all files. update, update, default value replace delete
--clear	optional, whether to empty the device of user programs

- Example

- Add "0.par" and "1.pkg", update the policy to update, save it as "d:\\new.uns", and empty the user program.

```
C:\Users\Liyyq>toolkit-cli uns --action pack --file E:\\0.par --file E:\\1.pkg --save D:\\\\new.uns --clear true
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[success] Loaded successfully E:\\0.par
[success] Loaded successfully E:\\1.pkg
[info] Packing in progress, please wait
[success] Package succeeded
```

Figure 89

- Add "2.apk ", update the policy to replace, add "3.par", update the policy to delete, and save it as "d:\\new2.uns".

```
C:\Users\Liyyq>toolkit-cli uns --action add -file E:/2.apk --type replace
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[success] Loaded successfully E:/2.apk
[success] Success

C:\Users\Liyyq>toolkit-cli uns --action add -file E:/3.par --type delete
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[success] Loaded successfully E:/3.par
[success] Success

C:\Users\Liyyq>toolkit-cli uns --action pack --save D://new2.uns
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] Packing in progress, please wait
[success] Package succeeded
```

Figure 90

4.2.6 Pick

Pick the module of the loaded files.

- Command
toolkit-cli uns --action pick --moduleVersion <ModuleName:version>
- Parameter

--moduleVersion <ModuleName:version>	Device's module name and module version, such as: Basic:1.5.0,1.6.0.
--------------------------------------	---
- Example

```
C:\Users\maohj>toolkit-cli uns --action list --addObjectVersion
AXIUM Toolkit V4.8.3-beta
AXIUM Toolkit CLI Service V3.1.1
[info] ID      TYPE          MODULE NAME      VERSION    UPDATE POLICY | OBJECT VERSION
[info] 1      EPT-AND-OTA   Component        1.70.0     update
[info] 2      EPT-AND-OTA   Basic           1.16.0     update   1.4.0
[info] 3      EPT-AND-OTA   Basic           1.16.0     update   1.5.0
[info] 4      EPT-AND-OTA   Basic           1.16.0     update   1.6.0
[info] 5      EPT-AND-OTA   Basic           1.16.0     update   1.7.0
[info] 6      EPT-AND-OTA   Basic           1.16.0     update   1.8.0
[info] 7      EPT-AND-OTA   Basic           1.16.0     update   1.9.0
[info] 8      EPT-AND-OTA   Basic           1.16.0     update   1.10.0
[info] 9      EPT-AND-OTA   Basic           1.16.0     update  1.11.0
[info] 10     EPT-AND-OTA   Basic           1.16.0     update  1.12.0
[info] 11     EPT-AND-OTA   Basic           1.16.0     update  1.13.0
[info] 12     EPT-AND-OTA   Basic           1.16.0     update  1.14.0
[info] 13     EPT-AND-OTA   Basic           1.16.0     update  1.15.0
[success] Success

C:\Users\maohj>toolkit-cli uns --action pick --moduleVersion Basic:1.5.0
AXIUM Toolkit V4.8.3-beta
AXIUM Toolkit CLI Service V3.1.1
[success] Success

C:\Users\maohj>toolkit-cli uns --action list --addObjectVersion
AXIUM Toolkit V4.8.3-beta
AXIUM Toolkit CLI Service V3.1.1
[info] ID      TYPE          MODULE NAME      VERSION    UPDATE POLICY | OBJECT VERSION
[info] 1      EPT-AND-OTA   Component        1.70.0     update
[info] 2      EPT-AND-OTA   Basic           1.16.0     update   1.5.0
[success] Success
```

Figure 91

4.3 load Sub Command

toolkit-cli load is the subcommand of **toolkit-cli**.
 Supported file format: .uns, .pkg, .par, .apk, .sgn,.crt, .bin.

4.3.1 Synopsis

```
C:\Users\Liyy>toolkit-cli load --help
toolkit-cli v1.2.0
toolkit-cli service v1.3.0

Usage:
$ toolkit-cli load

Options:
--file <filename>      Please enter the path to download the file
--cat <catalogueName>  Please enter the path to the download catalog
--push <file|cat>       Push file or catalogue to terminal
--port-id [portId]       Please enter port number.Only valid in windows()
--clean                  To wipe the terminal content before loading
--reset                 Reboot
--sn                    Please enter terminal SN
-h, --help               Display this message
```

Figure 92

4.3.2 Parameters

-file <fileName>	Set the path of files that would be loaded to the device.
--cat <catalogueName>	The catalogue is list of components expected to be loaded on the device.
--push <file directory>	Set the path of the file or directory to be pushed to the internal shared storage of device. (Only valid in Windows OS).
--port-id <portId>	Option to set the port id (COM information can be checked in device manager, only valid in Windows OS).
--reset	Option to restart the terminal after loading operation completed.
--sn <SN>	Option to set the terminal SN.
--clean	Option to wipe terminal content before loading. Only the applications installed by user and not in the whitelist could be uninstalled.

- Example
 - Load one file to terminal.

```
C:\Users\Liyy>toolkit-cli load --file E:/TestManager2.apk
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] Wait for device detection...
[info] The count number:1
[info] [2291KD888419] Loading
[info] =====Install Result=====
[info] Module name Type Software categor Version name Version code Result reason
[success] Com.package.tecs.commonMin EPT-AND-APK EPT_Super 3.0.99 789 Download successfully
[info] =====Install Result=====
[info] Successful:1 Failed:0 Warning:0
[success] [2291KD888419] Operation completed!
```

Figure 93

- Load multiple files to terminal.

```
C:\Users\Liyy>toolkit-cli load --file E:/TestManager2.apk --file E:/TestManager1.apk
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] Wait for device detection...
[info] The count number:1
[info] [2291KD888419] Loading
[info] =====Install Result=====
[info] Module name Type Software categor Version name Version code Result reason
[success] Com.package.tecs.commonMin EPT-AND-APK EPT_Super 3.0.99 789 Download successfully
[info] =====Install Result=====
[info] Successful:1 Failed:0 Warning:0
[success] [2291KD888419] Operation completed!
```

Figure 94

- Load cat to terminal.

```
C:\Users\Liyyq>toolkit-cli load --cat E:/New
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] Wait for device detection...
[info] The count number:1
[info] [2291KD888419] Loading
[info] ======Install Result=====
[info] Module name Type Software categor Version name Version code Result reason
[success] Com.package.tecs.commonMin EPT-AND-APK EPT_Super 3.0.99 789 Download successfully
[info] ======Install Result=====
[info] Successful:1 Failed:0 Warning:0
[success] [2291KD888419] Operation completed!
```

Figure 95

Note: It is not supported to pass in more than one cat option at a time. If the file and cat options exist at the same time, only the file option will be processed.

■ Push files to terminal.

```
C:\Users\Liyyq>toolkit-cli load --push E:/AndroidTestA.apk
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] Wait for device detection...
[info] The count number:1
[info] [2291KD888419] Loading
[info] [2291KD888419] Identifying MTP device...
[info] [2291KD888419] Pushing files to SD card...
[info] ======Push Result=====
[info] File name Result reason
[success] AndroidTestA.apk Push Successed
[info] ======Push Result=====
[info] Successful:1 Failed:0 Warning:0
[success] [2291KD888419]
```

Figure 96

Note: Push option is only available on Windows OS. If you use it in Mac OS, there will be some unexpected errors. Push supports more than one files or directories to the device at the same time by using command like below:

```
toolkit-cli load --push C:\APOSV001_20190928.uns --push C:\APOSV002.uns --push C:\APOS
```

■ Load and push files to terminal.

```
C:\Users\Liyyq>toolkit-cli load --push E:/AndroidTestA.apk --file E:/TestManager2.apk
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] Wait for device detection...
[info] The count number:1
[info] [2291KD888419] Loading
[info] [2291KD888419] Identifying MTP device...
[info] [2291KD888419] Pushing files to SD card...
[info] ======Push Result=====
[info] File name Result reason
[success] AndroidTestA.apk Push Successed
[info] ======Push Result=====
[info] ======Install Result=====
[info] Module name Type Software categor Version name Version code Result reason
[success] Com.package.tecs.commonMin EPT-AND-APK EPT_Super 3.0.99 789 Download successfully
[info] ======Install Result=====
[info] Successful:2 Failed:0 Warning:0
[success] [2291KD888419] Operation completed!
```

Figure 97

- Clean terminal user applications.

```
C:\Users\Liyy>toolkit-cli load --clean
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] Wait for device detection...
[info] The count number:1
[info] [2291KD888419] Cleaning user programs...
[info] =====Install Result=====
[info] Module name Type Software categor Version name Version code Result reason
[success] Com.package.tecs.commonMin EPT-AND-APK EPT_Super 3.0.99 789 Deleted successfully
[info] =====Install Result=====
[info] Successful:1 Failed:0 Warning:0
[success] [2291KD888419] Clean successfully
```

Figure 98

Note: You can use this option with file/cat/push at the same time or use it without other options.

- Use reset option to reboot terminal after load.

```
C:\Users\Liyy>toolkit-cli load --file E:/TestManager2.apk --clean --reset
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] Wait for device detection...
[info] The count number:1
[info] [2291KD888419] Cleaning user programs...
[info] =====Install Result=====
[info] Module name Type Software categor Version name Version code Result reason
[success] Com.package.tecs.commonMin EPT-AND-APK EPT_Super 3.0.99 789 Download successfully
[info] =====Install Result=====
[info] Successful:1 Failed:0 Warning:0
[info] [2291KD888419] The device will restart
[success] [2291KD888419] Installation successful
```

Figure 99

- Use port-id option to specify the terminal when multiple terminal plugged in the computer. (Only Windows OS supported.)

```
C:\Users\Liyy>toolkit-cli load --file E:/TestManager2.apk --clean --reset --port-id COM4
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[info] Wait for device detection...
[info] The count number:1
[info] [2291KD888419] Cleaning user programs...
[info] =====Install Result=====
[info] Module name Type Software categor Version name Version code Result reason
[success] Com.package.tecs.commonMin EPT-AND-APK EPT_Super 3.0.99 789 Download successfully
[info] =====Install Result=====
[info] Successful:1 Failed:0 Warning:0
[info] [2291KD888419] The device will restart
[success] [2291KD888419] Installation successful
```

Figure 100

- Use sn option to specify the terminal when multiple terminal plugged in the computer.

```
C:\Users\Liyyq>toolkit-cli load --file E:/TestManager2.apk --clean --reset --sn 2291KD888419
`toolkit-cli v1.2.0
`toolkit-cli service v1.3.0
[info] Wait for device detection...
[info] The count number:1
*[info] [2291KD888419] Cleaning user programs...
[info] =====Install Result=====
[info] Module name Type Software categor Version name Version code Result reason
[success] Com.package.tecs.commonMin EPT-AND-APK EPT_Super 3.0.99 789 Download successfully
[info] =====Install Result=====
[info] Successful:1 Failed:0 Warning:0
*[info] [2291KD888419] The device will restart
*[success] [2291KD888419] Installation successful
```

Figure 101

Note: If you use the port-id and sn option at the same time on Windows OS, it will use the value of port-id option to find terminal. if not, the value of sn option will be used.

4.4 launch-app Sub Command

toolkit-cli launch-app is the subcommand of **toolkit-cli**.

Note: The terminal firmware version must be at least 1.12.0.

4.4.1 Synopsis

```
C:\Users\wuly.USR>toolkit-cli launch-app --help
AXIUM Toolkit V4.1.5-beta
AXIUM Toolkit CLI Service V2.0.6-SNAPSHOT

Usage:
$ toolkit-cli launch-app

Options:
-t, --type <arg>           <Optional> The type of launched.
-pn, --package-name <arg>  <Required> The app's package name which will be launched.
-cn, --class-name <arg>    <Required> The app's class name which will be launched.
-p, --port-id <arg>        <Optional> The terminal's port number. Only valid on Windows OS.
-sn, --sn <arg>           <Optional> The terminal's SN.
-h, --help                  <Optional> Display this message
```

Figure 102

4.4.2 Parameters

-t, --type <arg>	<Optional> The type of launched.
-pn, --package-name <arg>	<Required> The app's package name which will be launched.
-cn, --class-name <arg>	<Required> The app's class name which will be launched.
-p, --port-id <arg>	<Optional> The terminal's port number. Only valid on Windows OS.
-sn, --sn <arg>	<Optional> The terminal's SN.
-h, --help	<Optional> Display this message

- Example

■ Launch CIT app.

```
C:\Users\wuly.USR>toolkit-cli launch-app --package-name com.smartpos.android.cit.customer.IndexActivity --type 1
AXIUM Toolkit V4.1.5-beta
AXIUM Toolkit CLI Service V2.0.6-SNAPSHOT
[info] Wait for device detection...
[info] The count number:1
[success] [AXIUM DX8000][IGYF00000485][COM20] Launch Successfully.
```

Figure 103

4.5 unload Sub Command

toolkit-cli unload is the subcommand of **toolkit-cli**.

4.5.1 Synopsis

```
C:\Users\wuly.USR>toolkit-cli unload --help
AXIUM Toolkit V4.1.5-beta
AXIUM Toolkit CLI Service V2.0.6-SNAPSHOT

Usage:
$ toolkit-cli unload

Options:
-st, --soft-type <arg>      <Required> The app's soft type which will be unloaded.
-mn, --module-name <arg>    <Required> The app's module name which will be unloaded.
-dn, --display-name <arg>   <Optional> The app's display name which will be unloaded.
-an, --area-name <arg>     <Optional> The app's area name which will be unloaded.
-p, --port-id <arg>        <Optional> The terminal's port number. Only valid on Windows OS.
-sn, --sn <arg>            <Optional> The terminal's SN.
-h, --help                  <Optional> Display this message
```

Figure 104

4.5.2 Parameters

-st, --soft-type <arg>	<Required> The app's soft type which will be unloaded.
-mn, --module-name <arg>	<Required> The app's module name which will be unloaded.
-dn, --display-name <arg>	<Optional> The app's display name which will be unloaded. If the app 's display name existed, this option must be specified with the display name.
-an, --area-name <arg>	<Optional> The app's area name which will be unloaded. If the app 's area name existed, this option must be specified with the area name.
-p, --port-id <arg>	<Optional> The terminal's port number. Only valid on Windows OS.
-sn, --sn <arg>	<Optional> The terminal's SN.
-h, --help	<Optional> Display this message

- Example
 - Unload app.

```
C:\Users\wuly.USR>toolkit-cli unload --module-name ANDTEST --soft-type EPT-AND-PAR --area-name EPT_Middleware --display-name ANDTEST
AXIUM Toolkit V4.1.5-beta
AXIUM Toolkit CLI Service V2.0.6-SNAPSHOT
[info] Wait for device detection...
[info] The count number:1
[success] [AXIUM DX8000][IGYF00000485][COM20] Unload Successfully.
```

Figure 105

4.6 device-info Sub Command

4.6.1 Synopsis

```
C:\Users\maohj>toolkit-cli device-info -h
AXIUM Toolkit V4.3.5
AXIUM Toolkit CLI Service V2.2.1

Usage:
$ toolkit-cli device-info

Options:
-a, --action <applist | isready> Operation {applist: view the list of installed files in device, isReady: Determine if the terminal is ready}
-pi, --port-id <arg> <Optional> The terminal's port number. Only valid on Windows OS.
-sn, --sn <arg> <Optional> The terminal's SN.
-t, --timeout <arg> <Optional> Timeout for isready command, in seconds. Default: 0 (wait indefinitely)
-h, --help <Optional> Display this message
```

Figure 106

4.6.2 Parameters

-a, --action <applist isready>	Operation {applist: view the list of installed files in device, isReady: Determine if the terminal is ready}
-pi, --port-id <arg>	<Optional> The terminal's port number. Only valid on Windows OS.
-sn, --sn <arg>	<Optional> The terminal's SN.
-t, --timeout <arg>	<Optional> Timeout for isready command, in seconds. Default: 0 (wait indefinitely)
-h, --help	<Optional> Display this message

4.7 sign Sub Command

toolkit-cli sign is the subcommand of **toolkit-cli**.

Supported file type: APK, PKG, etc.

4.7.1 Parameters

-a, --action <sign getMethodList getCertList getPerms>	sign: Signature file. The "file" parameter is required. If other parameters are not provided, the default values will be used. getMethodList: Get the signature method list.
--	---

	getCertList: Get the certificate list based on the signature method. Supports the "method" parameter. If the "method" parameter is not provided, the default value will be used. getPerms: Obtaining authority-related information based on the certificate. Supports the "method", "certificate", and "file" parameters. The "file" parameter is required. If the "method" and "certificate" parameters are not provided, the default value will be used.
-f, --file <fileName>	<Optional> The absolute path of the file to be signed. Support multiple parameters. If action is "sign" or "getPerms", the file parameter is required.
-m, --method <methodName>	<Optional> Signature method.
-cert, --certificate <certificateName>	<Optional> Certificate information.
-perm, --permission <permission>	<Optional> Authority.
-t, --titan <titan>	<Optional> Titan permission.
-k, --kap <kapNumber>	<Optional> Kap number. Support multiple parameters.
-pro, --profile <profile>	<Optional> Profile.
-for, --format <formatName>	<Optional> Signature data format.
-i, --isvId <isvId>	<Optional> ISV ID. Support inputting only numbers.
-g, --genSgn	<Optional> Whether to generate SGN.
-inn, --innerCer <certificateName>	<Optional> Inner Sign.
-cat, --cat <catalogueName>	<Optional> The storage directory where files are signed.
-p, --platform <platformName>	<Optional> Terminal hardware information of the files. Prioritize obtaining platform information from the file. If the file does not contain platform information, it needs to be manually entered.
-h, --help	<Optional> Display this message

4.7.2 Get Method List

The options of signature configuration depend on the U-Key configuration on the server.

- Command
toolkit-cli sign --action getMethodList
- Parameter
N/A
- Example
 - Get the signature method list.

```
C:\Users\hongqy>toolkit-cli sign --action getMethodList
AXIUM Toolkit V4.9.4-beta
Signing Tool 3.5.0-beta
[info]
1. InnerSign
2. ITMPSign
3. RpFirmSignProd
4. AppSign
5. RpFirmSignDevelop
6. NewBurnImage
7. UkeyFile
8. USKernelFirm
9. Middleware
10. FirmSignDevelop
11. S160File
12. FactTestProd
13. GMFfile
14. FTSSign
15. FirmSignTemp
16. RpAppSignDevelop
17. FactlestTemp
18. FirmSignProd
[success] Success
```

Figure 107

4.7.3 Get Certificate List

The certificate identifies the signer and ensures the integrity and security of the signed file.

The optional certificates are different under different sign methods.

- Command
toolkit-cli sign --action getCertList [--method <methodName>]

- Parameter

<code>-m, --method <methodName></code>	<Optional> Signature method.
--	------------------------------

- Example
 - Get the default certificate list.

```
C:\Users\hongqy>toolkit-cli sign --action getCertList
AXIUM Toolkit V4.9.4-beta
Signing Tool 3.5.0-beta
[info] The default parameters are: method: InnerSign;
1. PKGInterNPDWCRT(iscauthsign.landicorp.com)
2. PKGInterWCRT(iscauthsign.landicorp.com)
3. BOOTOSCRT(iscauthsign.landicorp.com)
4. PKGInterNPWCRT(iscauthsign.landicorp.com)
5. SecFileNPDWCRT
[success] Success
```

Figure 108

- Get the certificate list based on the signature method.

```
C:\Users\hongqy>toolkit-cli sign --action getCertList --method AppSign
AXIUM Toolkit V4.9.4-beta
Signing Tool 3.5.0-beta
[info]
1. INTLAPACWCRT
2. INTLLARWCRT
3. ISV-APP-WCRT-TCY
4. ISV-APP-WCRT
5. ISV-APP-WCRT-Test
6. DefAcquirerWCRT
[success] Success
```

Figure 109

4.7.4 Get Permission List

The signature permission controls the application permission to call the APIs.

- Command

```
toolkit-cli sign --action getPerms --file <fileName> [--method <methodName>] [--certificate <certificateName>]
```

- Parameter

-f, --file <fileName>	<Required>The absolute path of the file to be signed. Support multiple parameters.
-m, --method <methodName>	<Optional> Signature method.
-cert, --certificate <certificateName>	<Optional> Certificate information.

- Example

- Get the default permission lists

```
C:\Users\hongqy>toolkit-cli sign --action getPerms --file "c:\\testFile\\app-v1v2.apk"
AXIUM Toolkit V4.9.4-beta
Signing Tool 3.5.0-beta
[info] Importing file, please wait.
[info] The default parameters are: method: InnerSign; certificate: PKGInterNPDWCRT(iscauthsign.landicorp.com);
Permission
1. NONPAY2(APK-V5-NON-ACCEPT)
2. ADMIN(APK-V5-ACCEPT)
TITAN
(No Data)
KAPID
(No Data)
Profile
(No Data)
Format Version
1. V1/V2
2. V3
3. V4
ISVID
(No Data)
[success] Success
```

Figure 110

- Get other permission lists based on the signature method and certificate

```
C:\Users\hongqy>toolkit-cli sign --action getPerms --method AppSign --certificate ISV-APP-WCRT-Test --file "c:\\testFile\\app-v1v2.apk"
AXIUM Toolkit V4.9.4-beta
Signing Tool 3.5.0-beta
[info] Importing file, please wait.
[info]
Permission
1. NONPAY1(ANDROID-NONPAY1)
2. NORMAL(ANDROID-NORMAL)
3. NORMAL(ANDROID-NORMAL2)
4. FULLSET(ANDROID-FULLSET)
5. ADMIN(ANDROID-ADMIN)
6. STANDARD(ANDROID-STANDARD)
7. NORMAL(ANDROID-NORMAL-TEST)
TITAN
1. MANAGER(ANDROID-TITANMANAGER)
2. NORMAL(ANDROID-TITANNORMAL)
3. SYSTEM(ANDROID-TITANSYSTEM)
KAPID
1. 00100100
2. 11111111
Profile
(No Data)
Format Version
1. V4
ISVID
1. 00010000(Ingenico application team)
2. 00020000(Ingenico QA test team)
3. 00030000(Third party applications)
4. 80000000(集团ISV管理方)
[success] Success
```

Figure 111

4.7.5 Signature File

- Command
toolkit-cli sign --action sign --file <fileName> [--method <methodName>] [--certificate <certificateName>] [--permission <permission>] [-titan <titan>] [-kap <kapNumber>] [--profile <profile>] [--format <formatName>] [-isvId <isvId>] [-genSgn] [-innerCer <certificateName>] [-cat <catalogueName>] [--platform <platformName>]

- Parameter

-f, --file <fileName>	<Required>The absolute path of the file to be signed. Support multiple parameters.
-m, --method <methodName>	<Optional> Signature method.
-cert, --certificate <certificateName>	<Optional> Certificate information.
-perm, --permission <permission>	<Optional> Authority.
-t, --titan <titan>	<Optional> Titan permission.
-k, --kap <kapNumber>	<Optional> KAP ID specifies the KAP area where the key is stored in the device. It is supported to select multiple KAP IDs at the same time.
-pro, --profile <profile>	<Optional> Profile used to identify the owner information of current device.
-for, --format <formatName>	<Optional> Signature data formate.
-i, --isvId <isvId>	<Optional> ISV ID. Support inputting only numbers.
-g, --genSgn	<Optional> Whether to generate SGN.
-inn, --innerCer <certificateName>	<Optional> Inner Sign.
-cat, --cat <catalogueName>	<Optional> The storage directory where files are signed. By default, the signed file(s) will be saved in a directory designated by the tool. If you want to save the signed file in another directory, please configure the "cat" parameter.
-p, --platform <platformName>	<Optional> Terminal hardware information of the files. Prioritize obtaining platform information from the file. If the file does not contain platform information, it needs to be manually entered.

- Example

- Signing multiple files

```
C:\Users\hongqy>toolkit-cli sign -a sign -f C:\\\\testFile\\\\app-v1v2.apk -f C:\\\\testFile\\\\p2pe_zvthost_service_v1.0.5_6.apk -m AppSign -cert ISV-APP-WCRT-Test -i "00010000(Ingenico application team)" -cat "c:\\\\testFile\\\\signed"
AXIUM Toolkit V4.9.4-beta
Signing Tool 3.5.0-beta
[info] Importing file, please wait.
[info] Signing...
[info] The default parameters are: permission: NONPAY1(ANDROID-NONPAY1); format: V4;
[success] Signature successful
```

Figure 112

Note: The file name of signed file is the same with the unsigned file.

4.8 quit-all Sub Command

There is no option of quit-all command. The command is used to quit all cli programs. For example:

```
C:\Users\Liyyq>toolkit-cli quit-all
toolkit-cli v1.2.0
toolkit-cli service v1.3.0
[success] Quit success.
```

Figure 113

4.9 Exit Code

- Command

```
echo %errorlevel%
```

```
0
```

Figure 114

- Description:

The exit code will be returned at the end of each process. The details are as follows:

Exit Code	Meaning
0	Successful
1	Failed

5 Server Address and Port

5.1 AXIUM Toolkit

IP or Address	Port	Usage
axtmp.ingenico-axcloud.net	443/80	Get resource permissions and access error code system (including accounts, roles, sub-tools, etc.), technical support module, extraction code module, etc.
d378t86zso007r.cloudfront.net	80	Download files from server
axtmp.ingenico-axcloud.net	8800	Login
axtmp.ingenico-axcloud.net	8801	
axtmp.ingenico-axcloud.net	9809	
axtmp.ingenico-axcloud.net	9810	

5.2 Device Log

IP or Address	Port	Usage
axtmp.ingenico-axcloud.net	443	Get resource permissions and assess the error code system.
axtmp.ingenico-axcloud.net	1009	Terminal files server.

5.3 Device Setup

IP or Address	Port	Usage
axtmp.ingenico-axcloud.net	8800	Get resource permissions and access to error code system, function verification, etc.
axtmp.ingenico-axcloud.net	8801	
axtmp.ingenico-axcloud.net	8804	
axtmp.ingenico-axcloud.net	19002	
axtmp.ingenico-axcloud.net	443	

5.4 Multi-loading Tool

IP or Address	Port	Usage
axtmp.ingenico-axcloud.net	443	Get resource permissions and assess the error code system.

5.5 Repairing Tool

IP or Address	Port	Usage
axtmp.ingenico-axcloud.net	8801/8814	Repairing Tool server address. TLS proxy forwarding FKS (burner related operations).
axtmp.ingenico-axcloud.net	8804	Build TCP link between terminal and gateway.
axtmp.ingenico-axcloud.net	9443/8443	Download Axkms certificate/ download.
axtmp.ingenico-axcloud.net	443	AXIUM Toolkit version backend for tool permission control and distribution.
axtmp.ingenico-axcloud.net	80	Download files from server.
duoJ76u4gxsm2.cloudfront.net	80	

5.6 Signing Tool

IP or Address	Port	Usage
axtmp.ingenico-axcloud.net	8801	Two-way authentication address of signature server.
axtmp.ingenico-axcloud.net	443	Get resource permissions and access error code system.

5.7 Software Manager

IP or Address	Port	Usage
axtmp.ingenico-axcloud.net	443	Get resource permissions and assess the error code system.

5.8 UNS Packager

IP or Address	Port	Usage
axtmp.ingenico-axcloud.net	443	Get resource permissions and assess the error code system.

5.9 Image Burn Tool

IP or Address	Port	Usage
axtmp.ingenico-axcloud.net	8813	Image Burn Tool server address.
axtmp.ingenico-axcloud.net	8804	Build TCP link between terminal and gateway.
axtmp.ingenico-axcloud.net	443	AXIUM Toolkit version backend for tool permission control and distribution.

5.10 Data Manager

IP or Address	Port	Usage
axtmp.ingenico-axcloud.net	8801	Data Manger server address.
axtmp.ingenico-axcloud.net	1009	Terminal files server.
axtmp.ingenico-axcloud.net	443	AXIUM Toolkit version backend for tool permission control and distribution.

6 FAQ

6.1 How to telnet

"telnet" is not recognized as an internal or external command.

```
C:\Users\chenyunr>telnet 47.74.132.255 443
'telnet' is not recognized as an internal or external command,
operable program or batch file.
```

Figure 115

Solution:

Enabled Telnet Client of Windows Features.

For Win10, you can find the telnet client through [Settings > Apps & features > programs and features > Turn Windows features on or off].

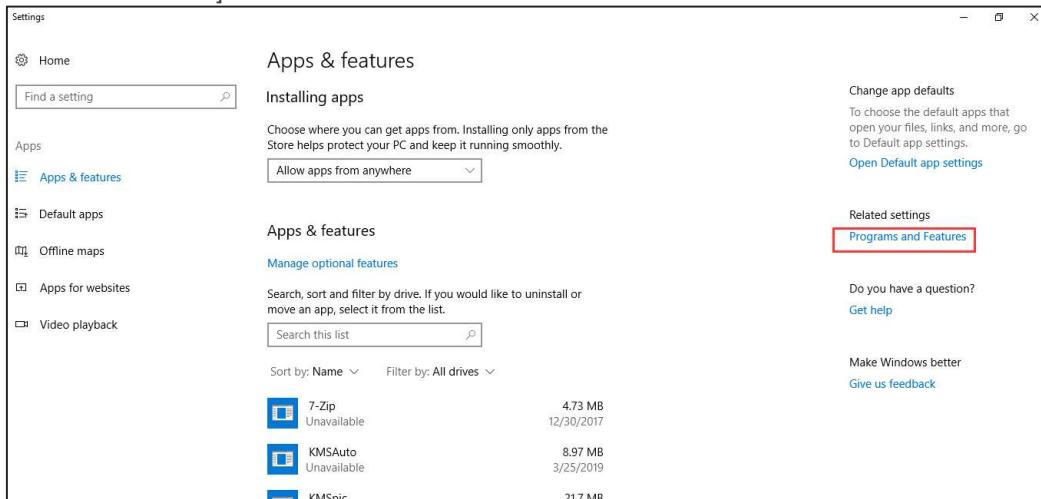


Figure 116

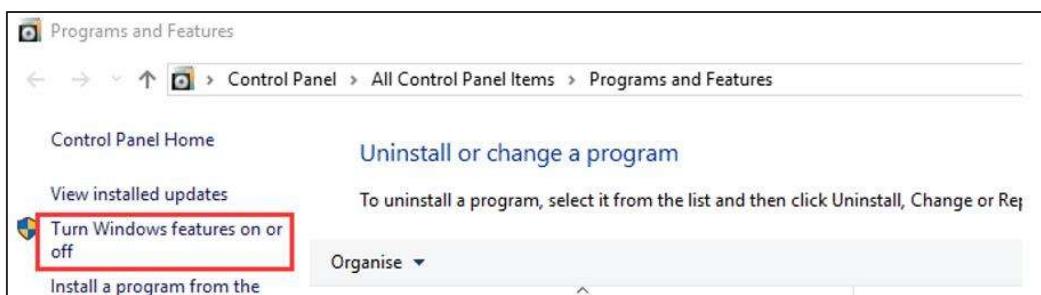


Figure 117

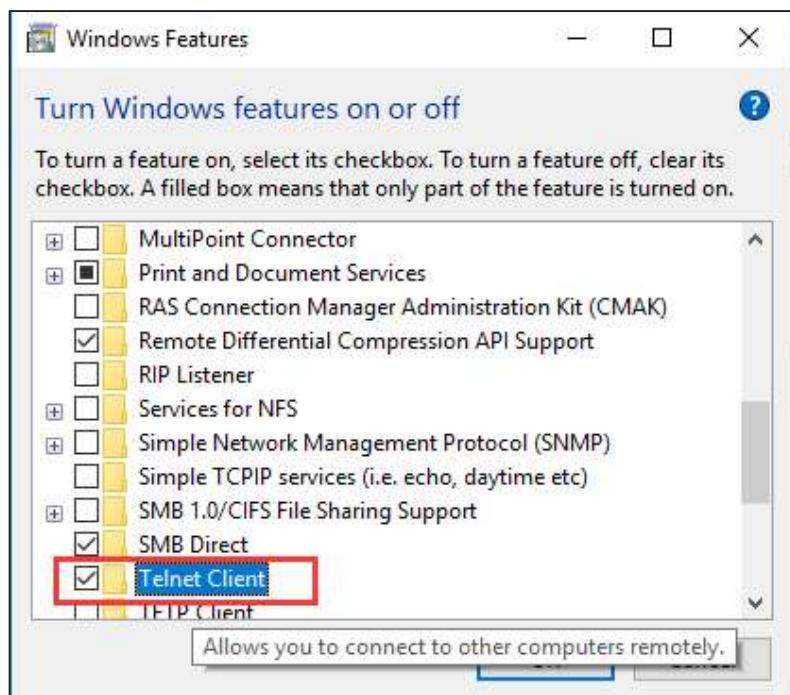


Figure 118

6.2 Unable to use adb.exe

When the tool or command line is running, adb.exe cannot be used. Only devices in development mode can be connected by adb.

Solution:

Quit tool: Close all tools in AXIUM Toolkit.
Quit command line: toolkit-cli quit-all.

6.3 Supported products

Version	Products
4.0.0 or above	A8 Pro/DX8000/RX7000/EX6000/EX8000/EX4000/DX4000/DX6000
4.1.0 or above	A8 Pro/DX8000/RX7000/EX6000/EX8000/EX4000/DX4000/DX6000
4.2.0 or above	A8 Pro/DX8000/RX7000/EX6000/EX8000/EX4000/DX4000/DX6000
4.3.0 or above	A8 Pro/DX8000/RX7000/EX6000/EX8000/EX4000/DX4000/DX6000