



**Advanced Card Systems Ltd.**  
Card & Reader Technologies

# ACS FIDO Device Key Manager

Administrator Package Manual V1.06



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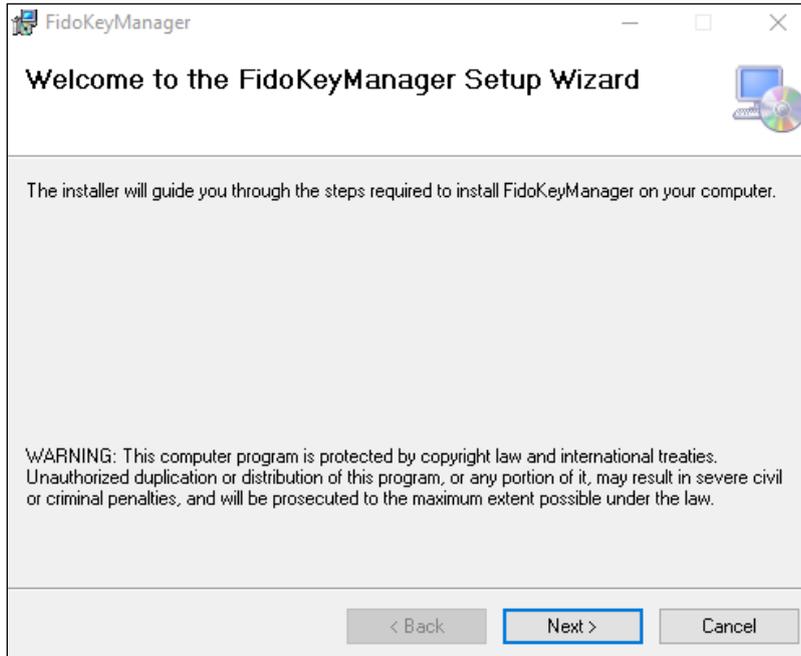


## 1.0. Download and Installation

This document discusses the necessary steps required to install the ACS FIDO Device Key Manager. The Device Key Manager is essential in accessing and configuring your FIDO device, and works in conjunction with the Microsoft Windows Desktop Runtime Application.

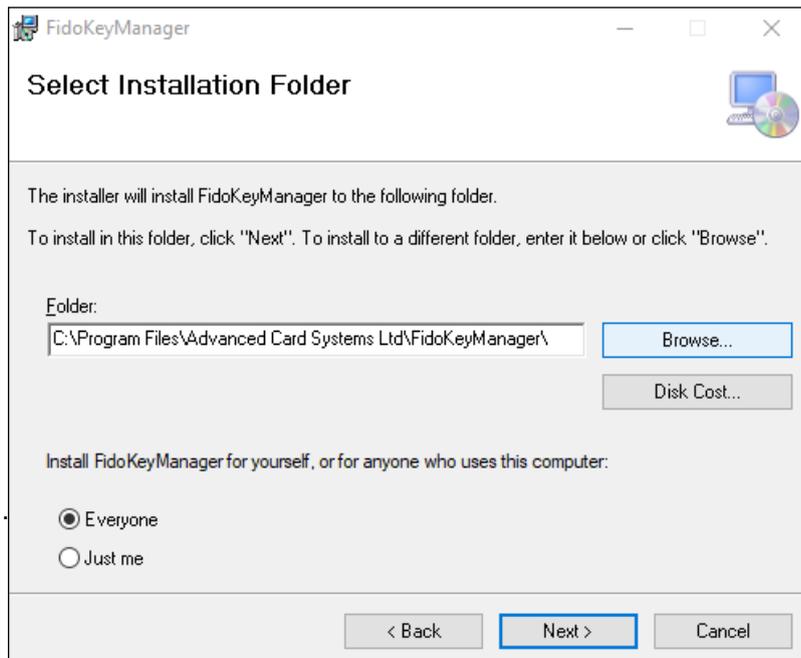
### 1.1. Installing the ACS FIDO Device Key Manager

Locate the “FIDO Key Manager Binary.zip” file in your “Downloads” folder and double click the “FIDOKeyManager.msi” file to launch the installer.

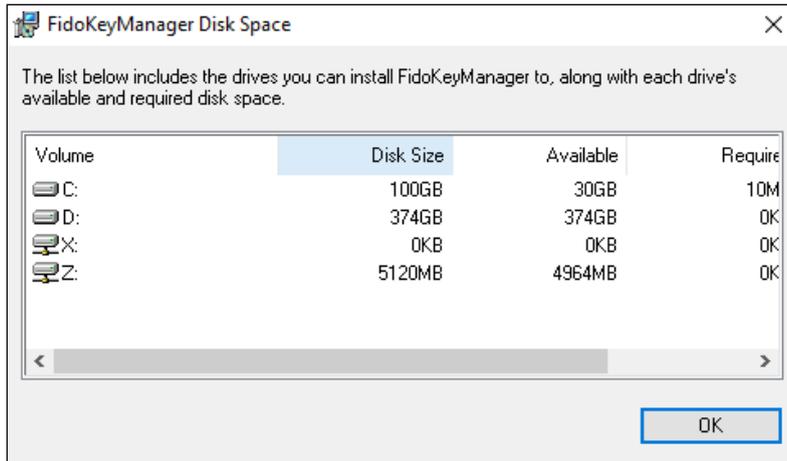


The “FIDO Key Manager Setup Wizard” window will appear.

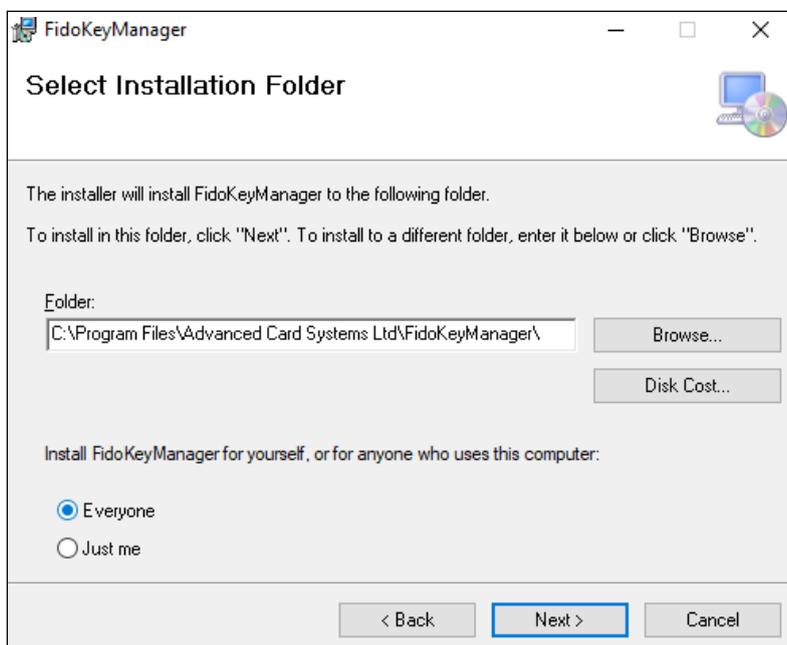
Click “Next” to proceed with the installation.



Select the appropriate folder for your installation. Click “Browse” to select a different folder or enter the folder path manually.

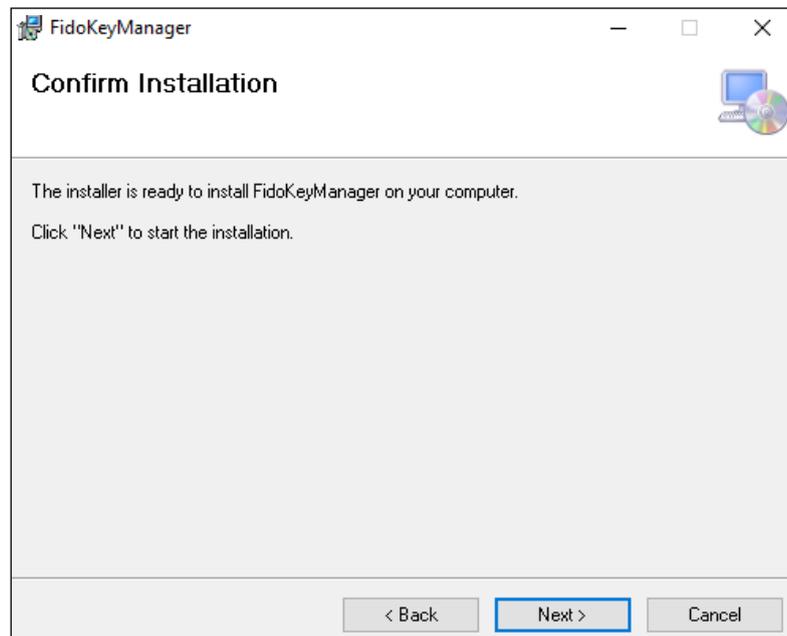


Click "Disk Cost" to preview the available drives on your device according to disk size.



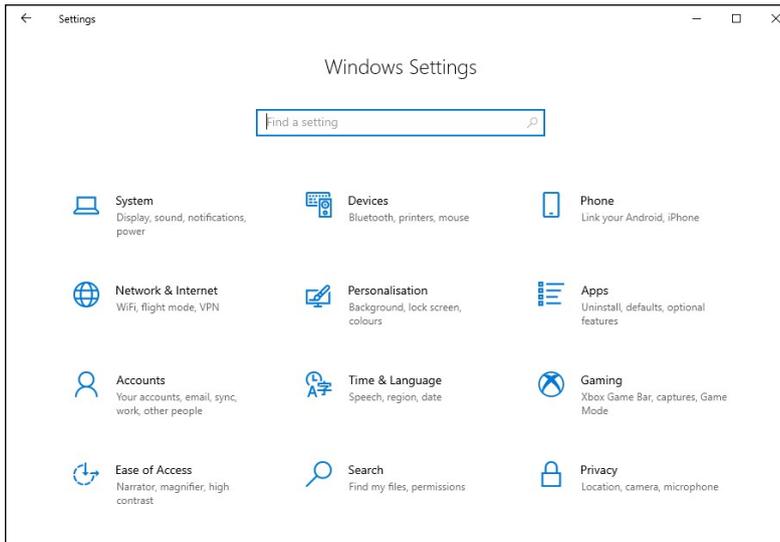
Select "Everyone" to allow broad access, or select "Just Me" to allow limited access to the FIDO Key Manager.

Click "Next" to proceed.

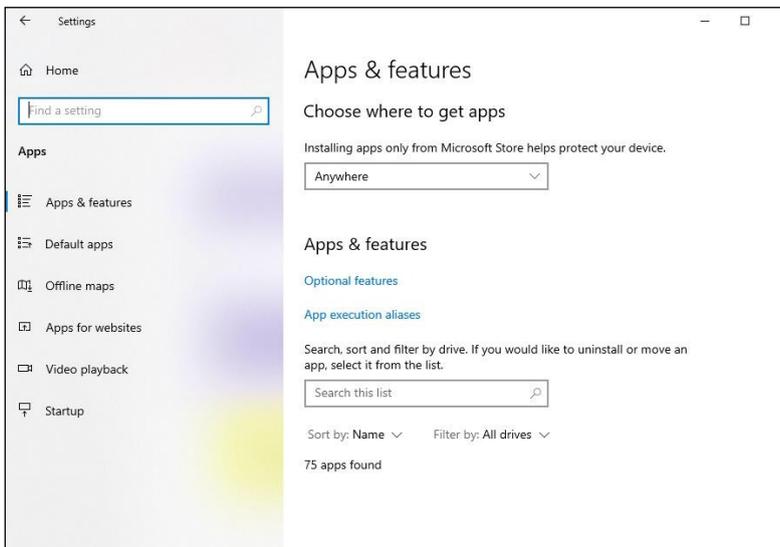


Click "Next" to begin the installation.

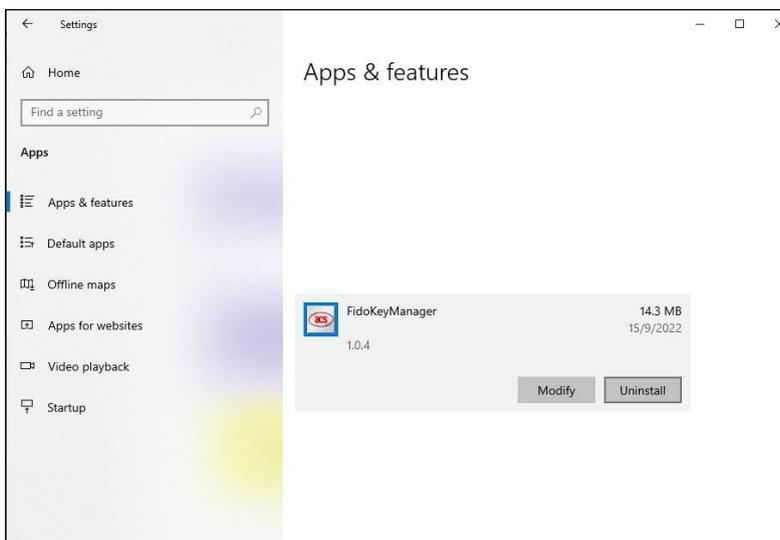
## 1.2. Uninstalling the FIDO Device Key Manager



To uninstall the FIDO Device Key Manager, go to the “Windows Settings” Homepage and click on “Apps”.



To uninstall Microsoft Windows Desktop Runtime, go to the “Windows Settings” Homepage and click on “Apps”.

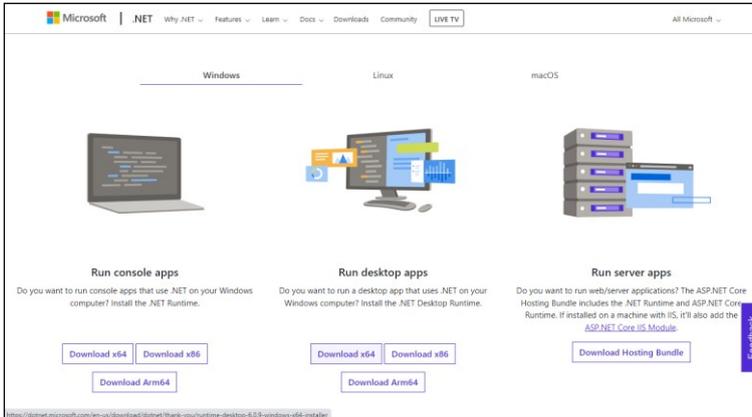


Locate “FIDO Key Manager” on the list and click on the application name to expand the menu.

Click “Uninstall” to proceed with the uninstallation.

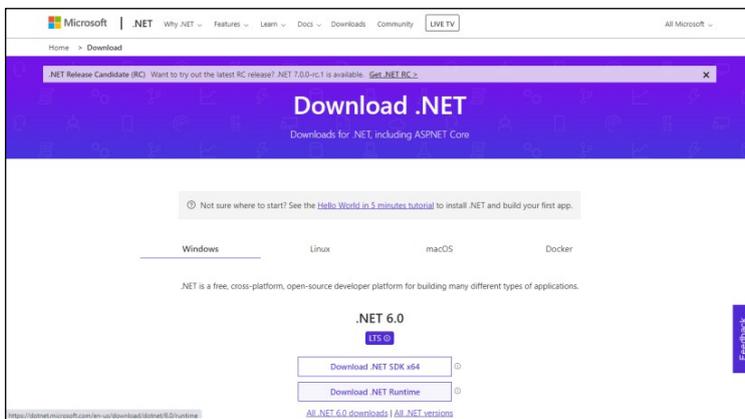


## 2.0. Installing Microsoft Windows Desktop Runtime



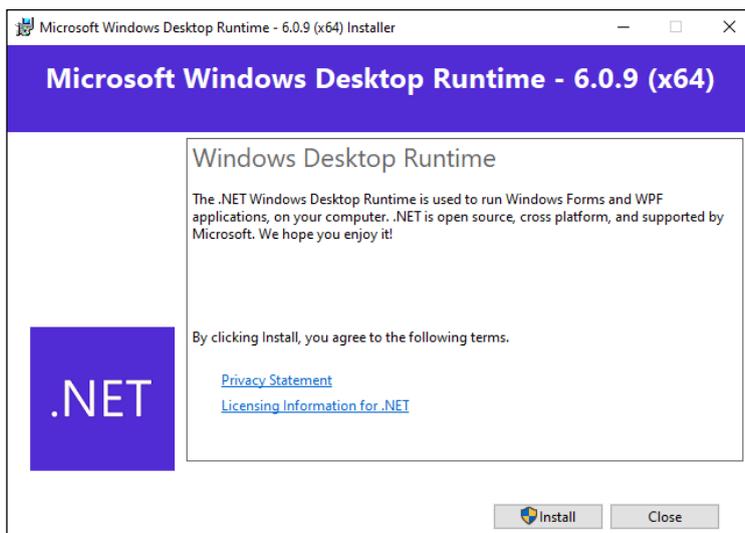
You may be required to install the Desktop Runtime Application on your device in order to run the Key Manager successfully.

Click on the link to install:  
<https://dotnet.microsoft.com/en-us/download>

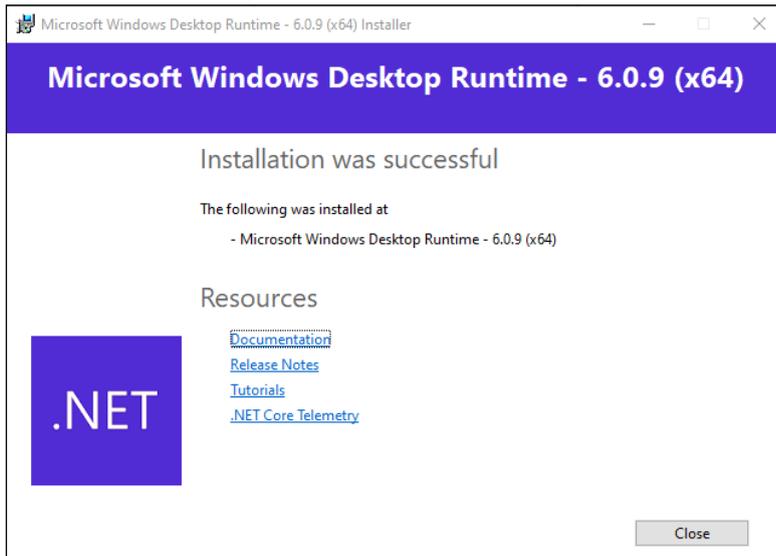


For Windows, select "Download x64", to proceed with the installation.

A "windowsdesktop-runtime-6.0.9-win-x64.exe" file will appear in your "Downloads" folder. Click on the file to proceed with the installation.



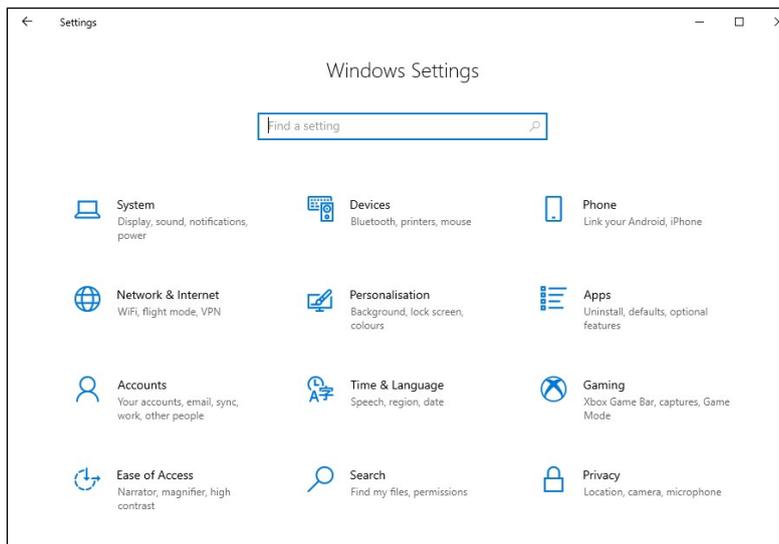
The Windows Desktop Runtime installation assistant window will appear. Click "Install" to proceed with installation.



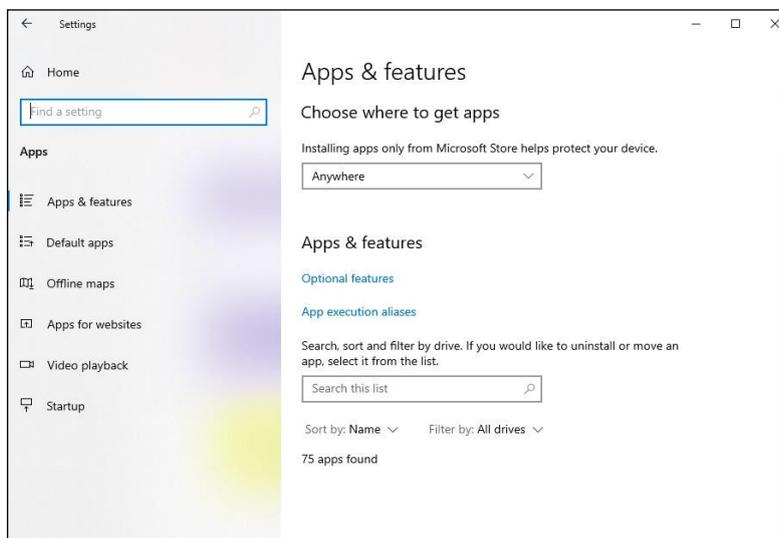
Once the installation is complete, you will be presented with an acknowledgement screen. Click "Close" to close the setup window.

You will be able to run FIDO Key Manager successfully with Microsoft Windows Desktop Runtime. Search the application on your device to proceed.

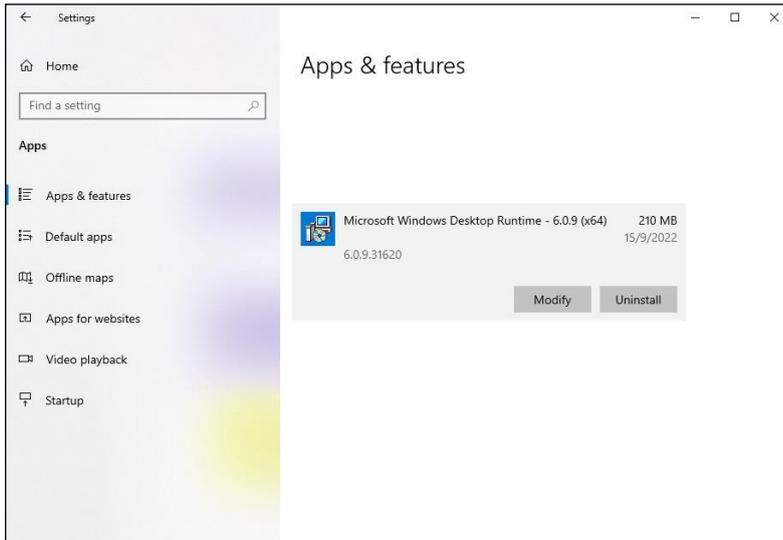
## 2.1. Uninstalling Microsoft Windows Desktop Runtime



To uninstall Microsoft Windows Desktop Runtime, go to the "Windows Settings" Homepage and click on "Apps".



Go to "Apps & Features".



Locate “Microsoft Windows Desktop Runtime” on the list of applications and click on the application name to expand the menu.

Click “Uninstall” to proceed with the uninstallation.

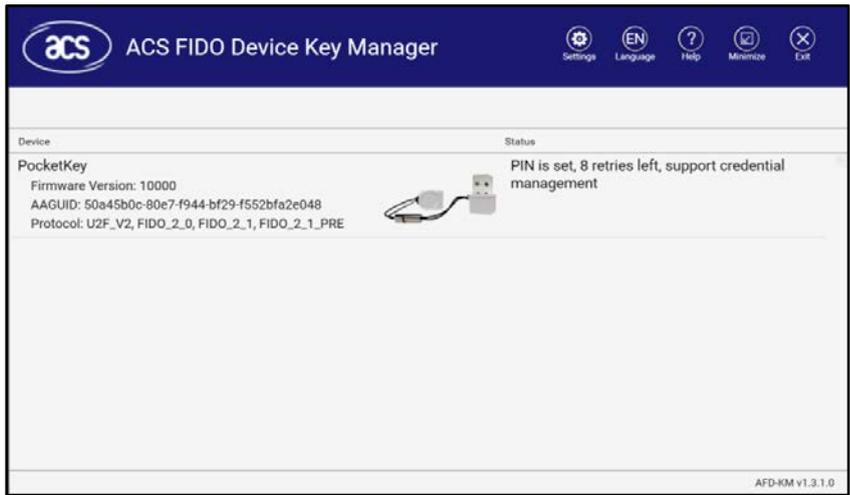


### 3.0. Features and Functionality

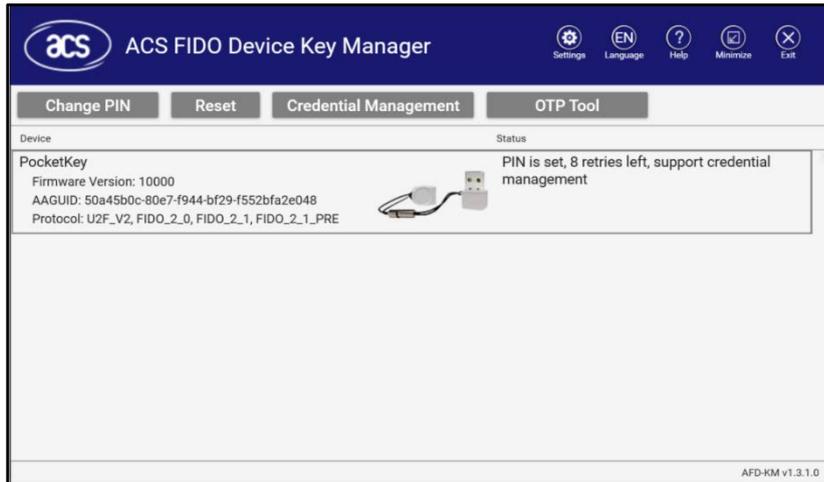
#### 3.1. Connecting with the Device Key Manager



Insert your FIDO Security Key to see available settings.



ACS FIDO Device Key Manager provides a quick way to identify the model, firmware version, AAGUID identifier, and protocol of your FIDO Security Key.



Select the Device, then Change or Reset a PIN-code for using FIDO with your FIDO Security Key.

**WARNING:** Resetting your pin code will also remove any stored FIDO2 data and credentials.

### 3.2. Configuring Functionality



*Note: PIN-code must be 4-63 characters long.*

### 3.3. Advanced Mode

The advanced mode section in the FIDO Device Key Manager allows users to manage credential(s) within the FIDO device.

In this example, credential(s) registration is required on the WebAuthn Specification website. This website is a testing website that demonstrates a method of creating such credential(s).

Click the following link to register: <https://webauthn.io/>



Under the section "example\_username", create a username.



Then, click on "Advanced Settings".



Scroll down to access "Advanced Settings".

Under "User Verification", select "Required".

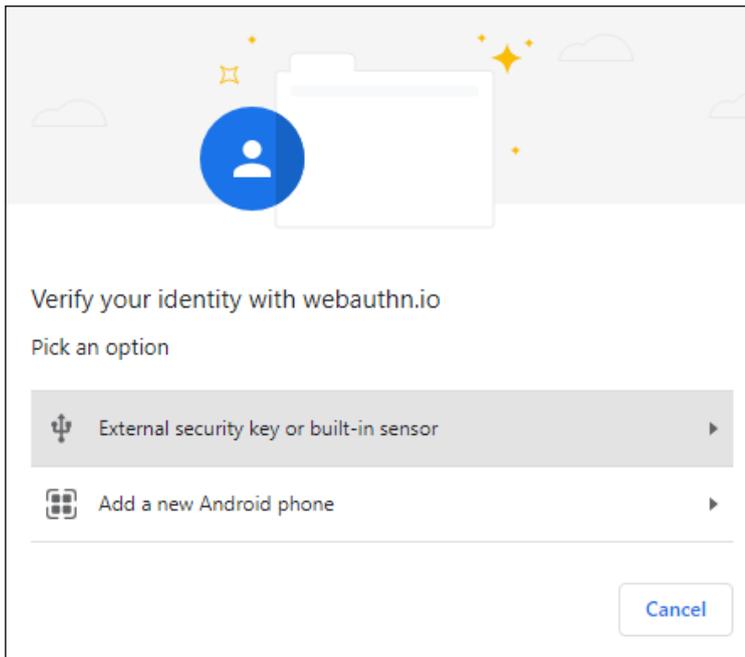
Under "Attachment", select "All Supported".

Under "Discoverable Credential", select "Required".

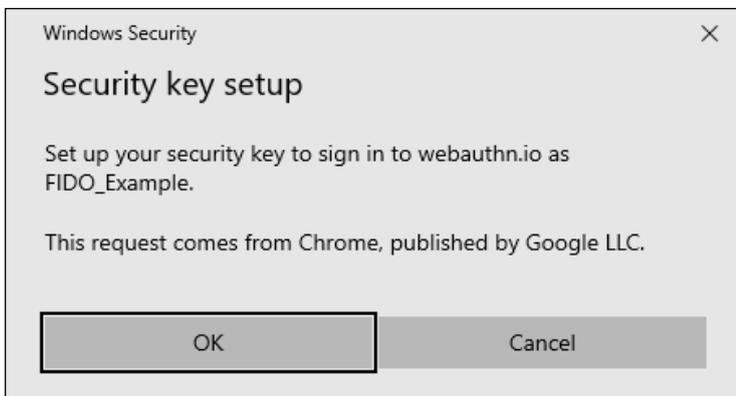
Under "Authentication Settings", select "Required".



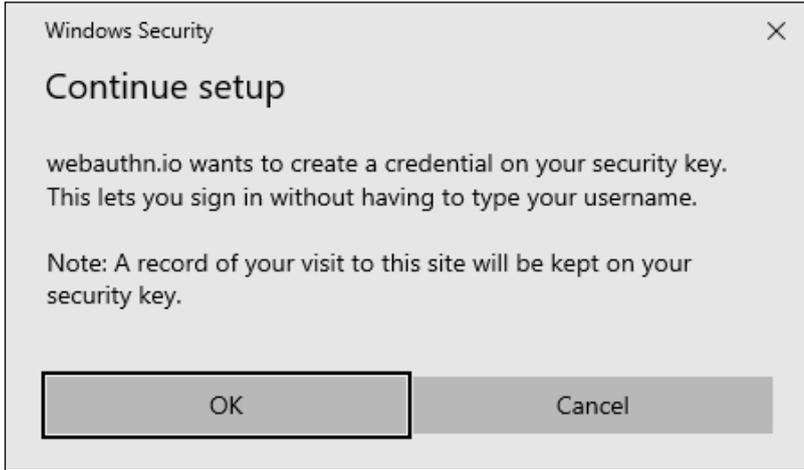
Once you have completed all of the above selections, click “Register” to proceed with the registration process.



You will be required to perform identity verification. Select “External Security Key or Built-In Sensor”.



You will then need to set up your security key to sign in to WebAuthn.io. Click “OK” to proceed with the set up.



The “Continue Setup” window will appear along with a brief description of the security key function.  
Click “OK” to continue.



Create a PIN for the security key and re-enter it.  
Click “OK” to proceed.

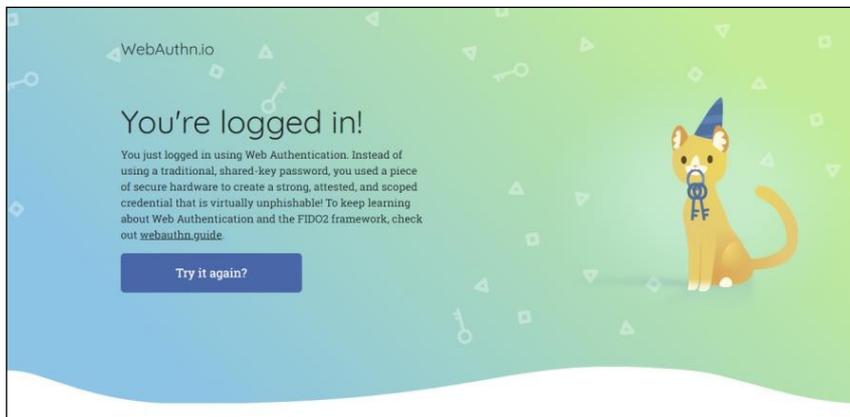


When prompted to “Touch Your Security Key”, press the built-in button on your FIDO device.

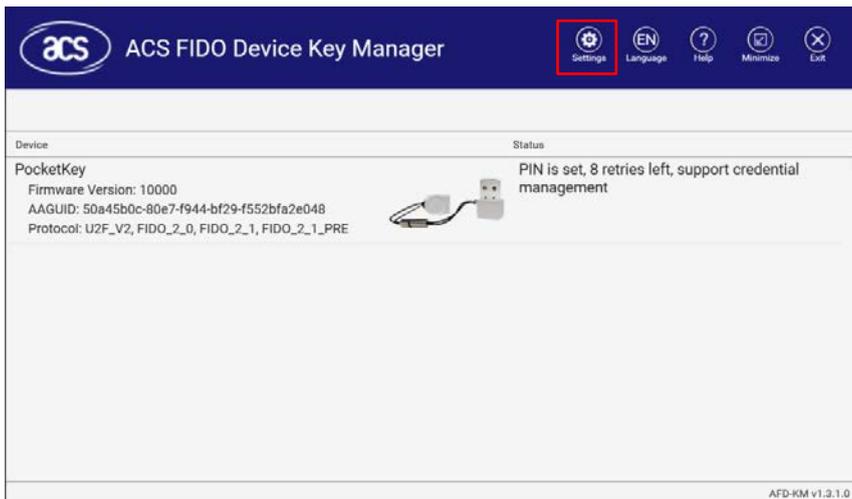


Once you have successfully set up your security key, return to the WebAuthn.io homepage and select "Authenticate" to Login.

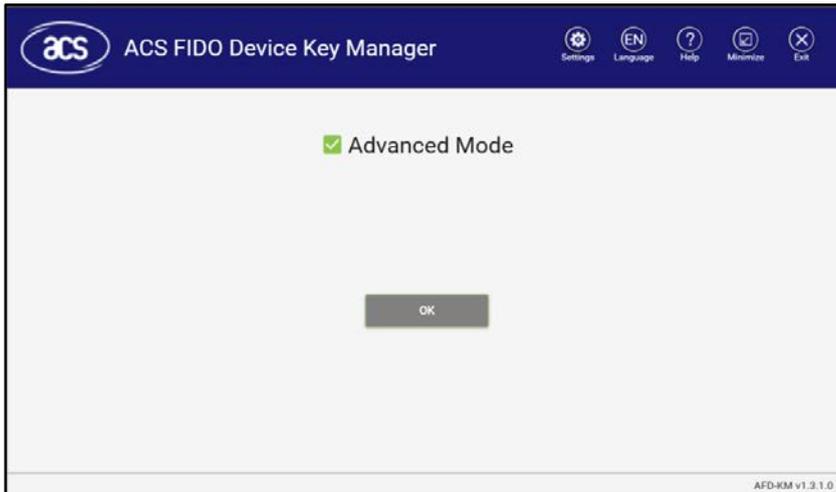
Every login attempt will require you to enter your PIN and press the built-in button on your FIDO device.



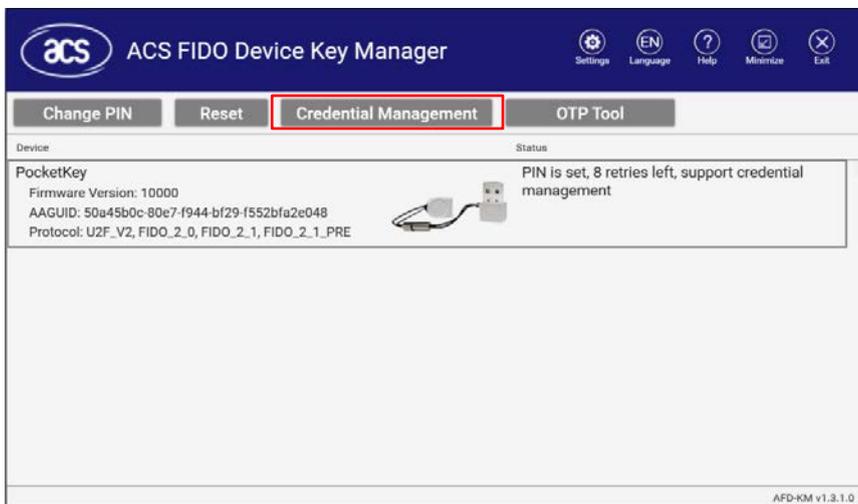
A confirmation page will pop up upon each successful login attempt.



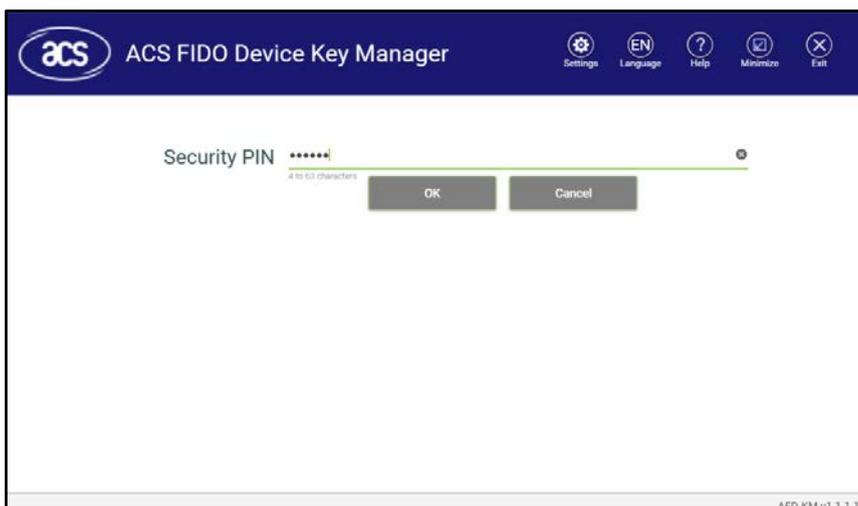
Upon logging in, return to the ACS FIDO Device Key Manager and click on "Settings".



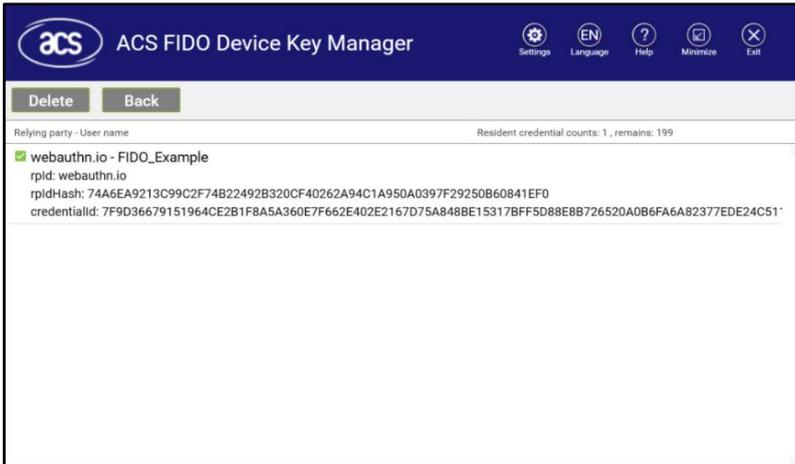
Select “Advanced Mode”. Then, click “OK”.



Select your FIDO Device. You should now be able to see the “Credential Management” button above the device. Click on “Credential Management”.



Enter the same Security PIN you created to register with WebAuthn.io. Then, click “OK”.



Click on the checkbox next to your registered credential. This will allow you to modify/delete credential(s) that are registered under your FIDO Device.

### 3.4. PocketKey OTP Tool

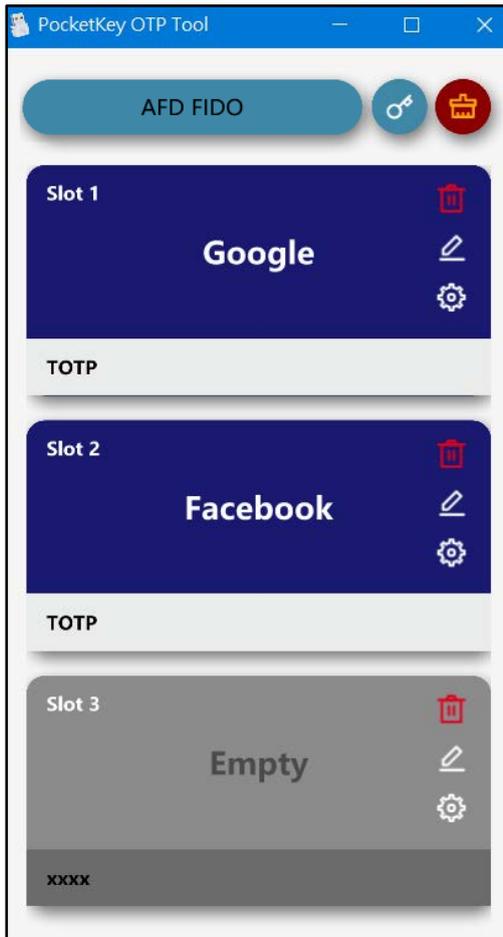
ACS PocketKey OTP Tool is designed to be a simple management tool used for FIDO PocketKey and PocketKey NFC Card. This tool mainly provides 2 functions, one is protocol management of multi-functional security keys; the other is to manage the optional OATH HOTP function.

**Note:** For PocketKey USB token, Firmware 1.00.00.15 or above is required to enable OTP function.

For PocketKey NFC Card, Firmware 1.00.00.08 or above is required to enable OTP function.



Open ACS FIDO Device Key Manager, and click "OTP Tool", then you will see an User Interface



PocketKey OTP Tool User interface

### 3.5. Managing communication protocol

Both FIDO PocketKey and PocketKey NFC Card support both FIDO HID and OTP communication protocols. Here are the detailed description for each protocols:

- PocketKey OTP Tool enables user to perform FIDO authentication and security key management
- OTP protocol enables the security as an *Authenticator app*. The OTP value will be generated when user click the background.
- Resetting ACS FIDO Device Key Manager will not affect the content of PocketKey OTP Tool.
- For further information of OTP Tool, please refer to “*Application Note for PocketKey OTP*”.