# Excelsecu Manager

# User Manual

# (V2.4)

Excelsecu Data Technology Co., Ltd.

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# Table of Content

# 1. Overview

eSecu FIDOManager is used to configure FIDO2, OTP and fingerprint functionality on your eSecu FIDO2 security keys on Windows operating system. Currently, the tool works with the following keys and systems.

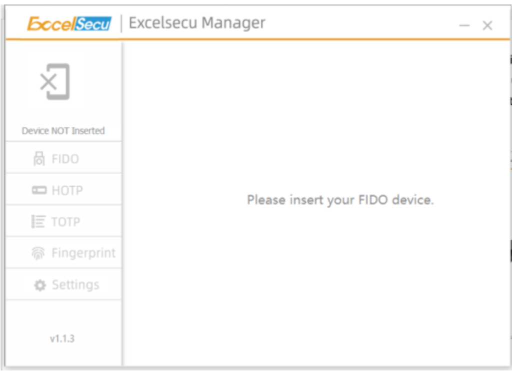
- **Supported Keys:** eSecu FIDO2 Security Key (FD200), eSecu FIDO2 NFC (FD202), eSecu FIDO2 Pro (FD203), eSecu FIDO2 Fingerprint Key (FD210), eSecu FIDO2 Pro+ (FD213)
- **Supported Systems:** windows7 to windows10, windows server 2016/2019

# 2. Interface Introduction

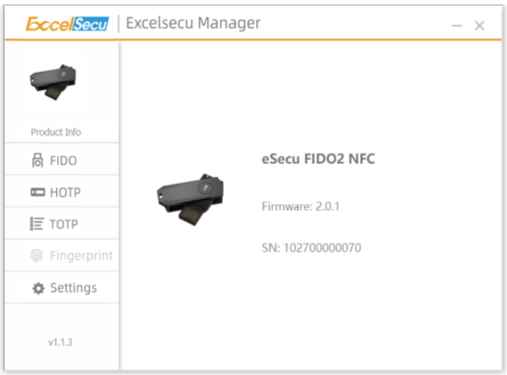
## 2.1. PC

### 2.1.1. Product Info

Open the FIDOManager.exe on your PC. Insert eSecu FIDO2 security key into the USB port of your PC, the product information will be displayed automatically. On the left menu, there are FIDO, HOTP, TOTP, Fingerprint product features. If the product doesn't have the feature, the corresponding menu will be grayed out.



Please insert your FIDO device.



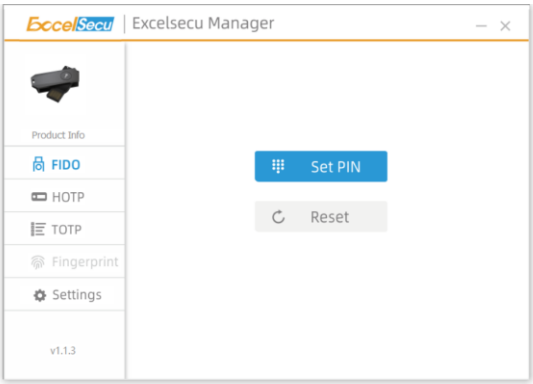
eSecu FIDO2 NFC

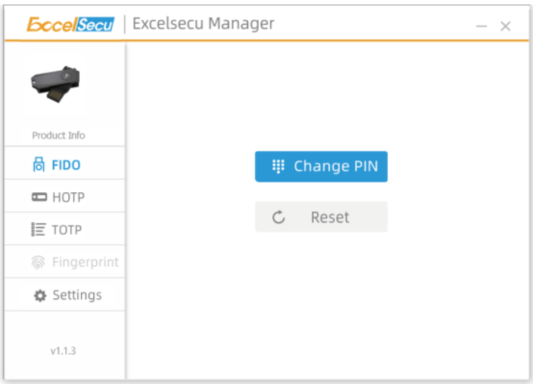
Firmware: 2.0.1

SN: 102700000070

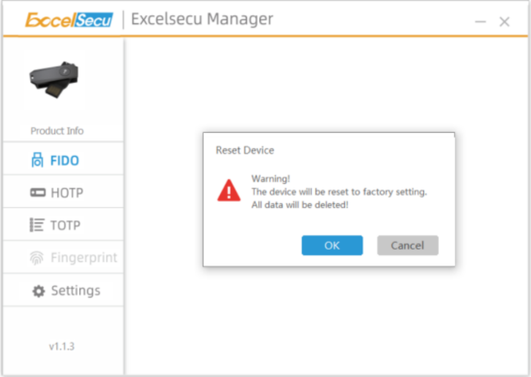
### 2.1.2. FIDO

On the FIDO page, you can setup a PIN for the key or change the PIN if you have set a PIN before.



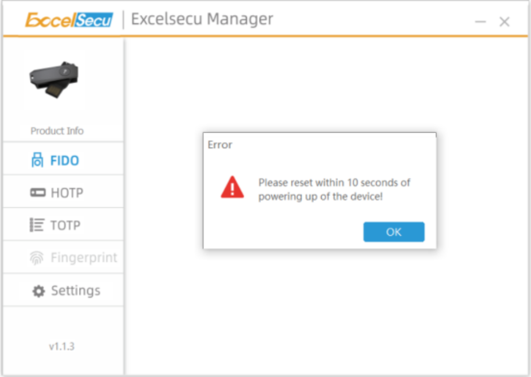


Click ***RESET*** button will only reset the data of FIDO and Fingerprint features back to factory settings, it won't delete the data of other features. Click ***OK*** button, then you will be required to press the button/ fingerprint sensor on the key to finish the reset operation. If you want to reset the key after plugging it into the computer for 10 seconds, then a warning message will appear: Please reset within 10 seconds of powering up of the device! Just unplug and plug the key again into the PC, and reset it within 10 seconds.



Reset Device

Warning!
The device will be reset to factory setting.
All data will be deleted!

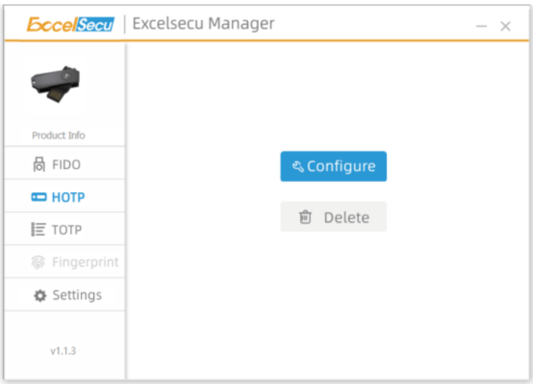


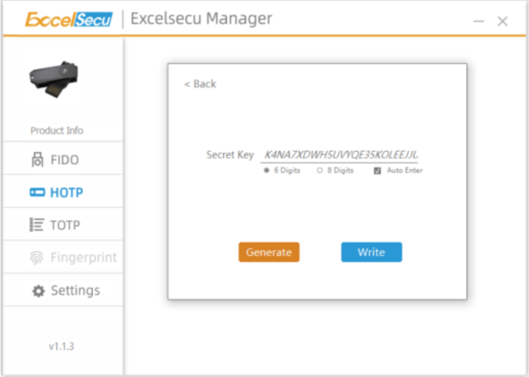
Error

Please reset within 10 seconds of powering up of the device!

## 2.1.3. HOTP

On the HOTP page, click ***Configure*** button, then you can enter a Base32 encoded secret key, or you can click ***Generate*** button to generate a random secret key, then click ***Write*** button to write the secret key into the FIDO2 security key. Then you can generate a HOTP value by pressing the button/ fingerprint sensor on the key. And you can choose 6 or 8 digits for the HOTP value, if the ***Auto Enter*** option is selected, the second OTP value will appear on the next line instead of after the first OTP value. You can click ***Delete*** button to delete the secret key from the eSecu FIDO2 security key.



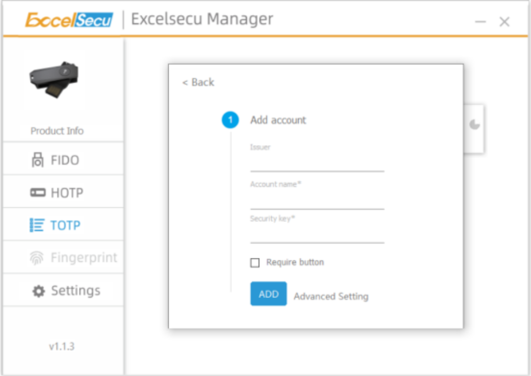


Secret Key K4NA7XDWH5UVYQE35KOLEEJJL

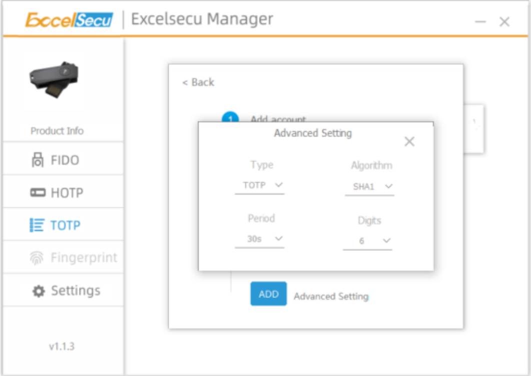
● 6 Digits ○ 8 Digits ☑ Auto Enter

## 2.1.4. TOTP

Click **+** button to add an account, enter the parameters on the page.



☐ Require button



Type TOTP
Algorithm SHA1
Period 30s
Digits 6

**Issuer:** It’s optional, you can leave it blank or enter the name of the web service which provides the TOTP verification.

**Account name**: You can enter anything just to remind yourself which account this is.

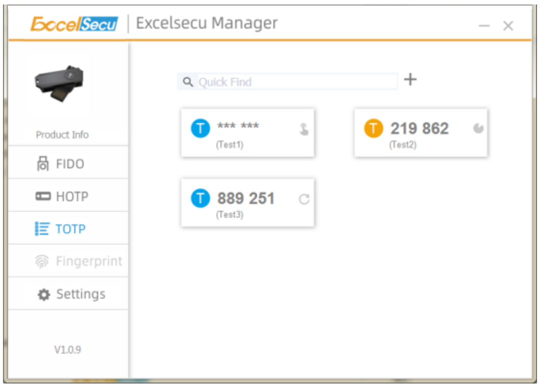
**Security key**: Base 32 OTP seed, enter the key copied from the web service which provides the TOTP verification.

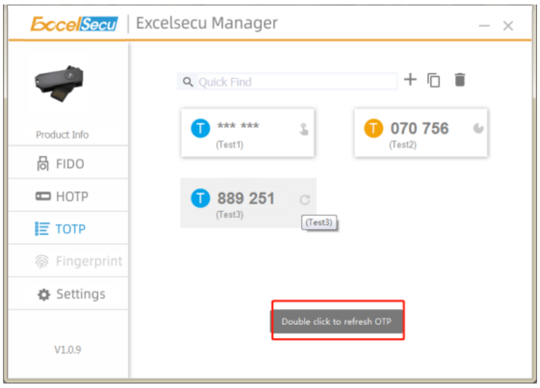
**Require button**: If this option is selected, you’re required to press the button/ fingerprint sensor on the key to see the OTP code.

**Advanced Setting**: Set the OTP parameters of the web service which provides TOTP verification.

**Type:** TOTP, HOTP **Algorithm:** SHA1, SHA256 **Period:** 30s, 60s **Digits:** 6, 8

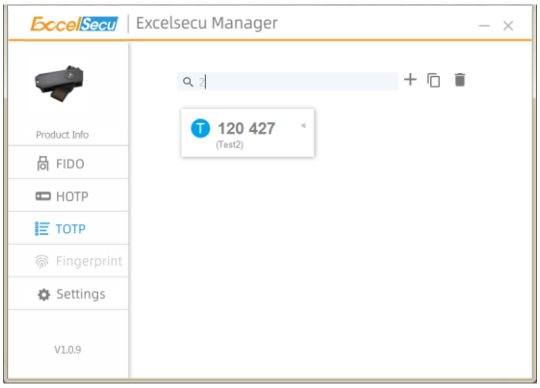
After successfully adding accounts, you will see the dynamic codes on the software. The dynamic code of Test1 account is hidden, that means the option ***Require button*** was selected for the account. Double left-click on the account, simply press the button/fingerprint sensor on the key, then the dynamic code will appear. When the OTP gets into the next timestep, the code will be hidden again. The dynamic code of Test2 account can be seen all the time and refreshes automatically. Test3 is a HOTP account, it has a refresh icon different from a TOTP account, double click it to refresh the HOTP code.

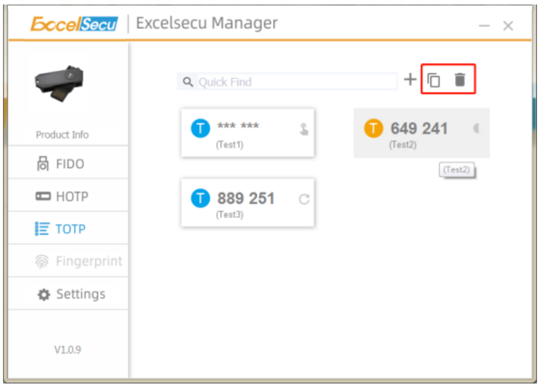




Double click to refresh OTP

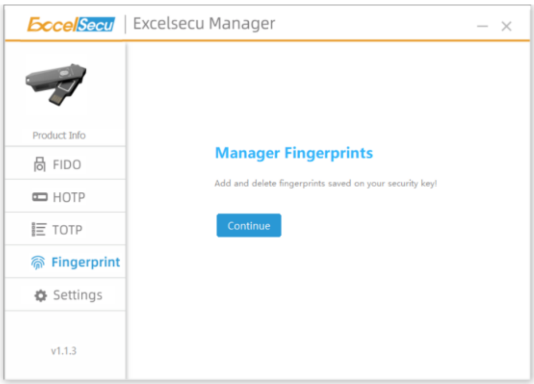
You can use the search bar to quickly find the account you want. Left click to select one account (the background color will turn gray), then you can copy the code or delete the account by clicking on the two buttons on the top.



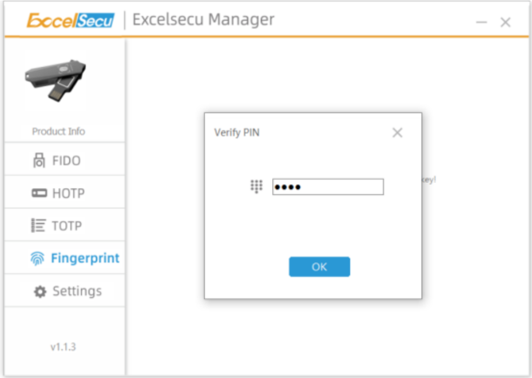


## 2.1.5. Fingerprint

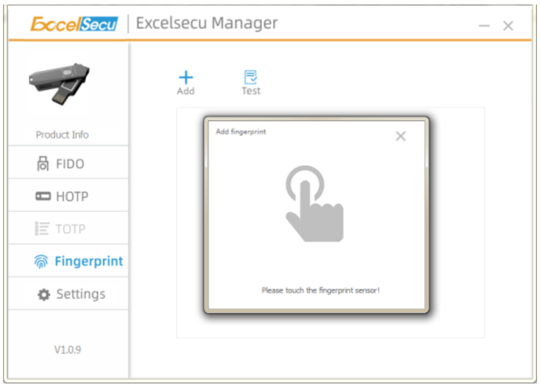
If you have set a PIN for the key, when you choose to manage the fingerprints, you will be required to verify the PIN first.



Add and delete fingerprints saved on your security key!

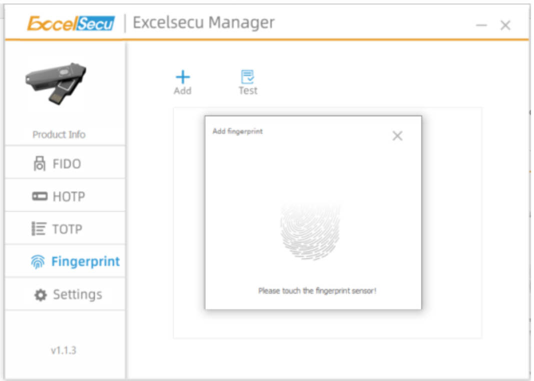


If NO PIN is set before, click ***Add*** button to add a fingerprint, then you need to touch the fingerprint sensor on the fingerprint key according to the prompt to complete the fingerprint registration. After the fingerprint is successfully enrolled, it will be listed in the text box.



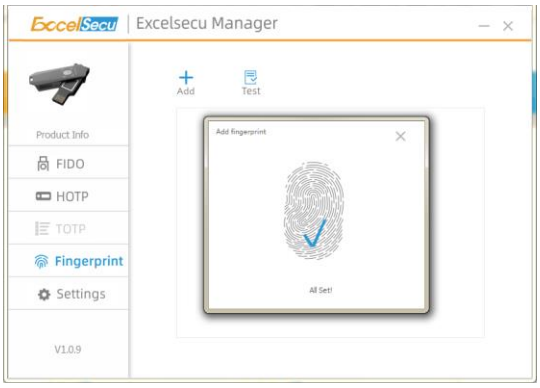
Add fingerprint

Please touch the fingerprint sensor!



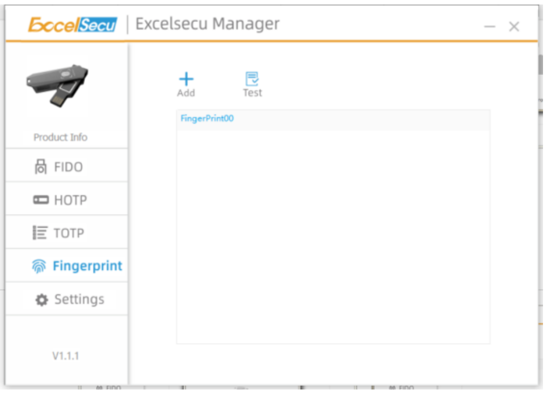
Add fingerprint

Please touch the fingerprint sensor!



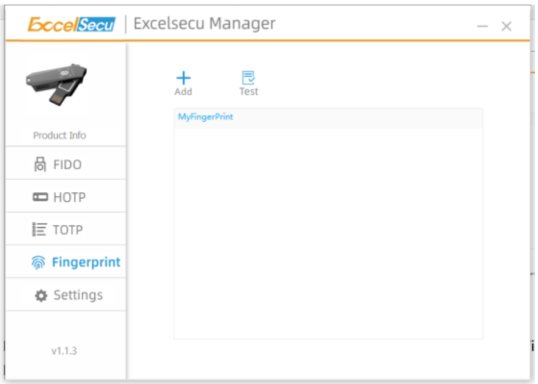
Add fingerprint

All Set!



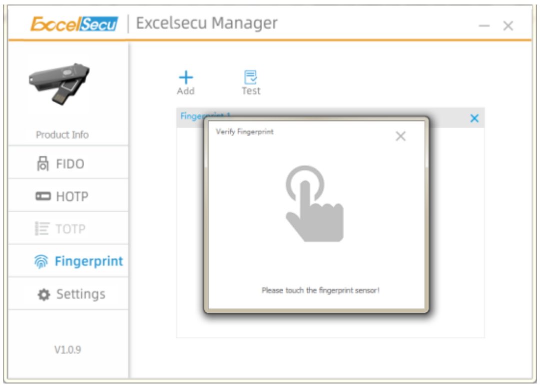
FingerPrint00

Double click the fingerprint name, you can change it.



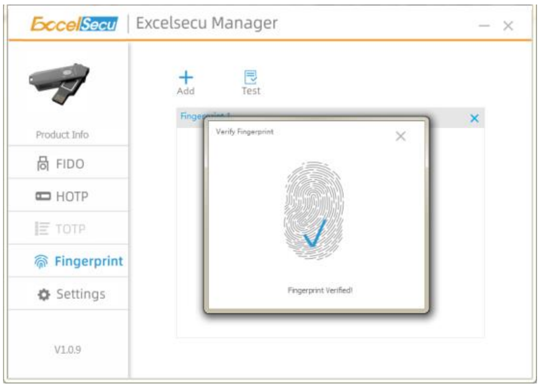
MyFingerPrint

Click ***Test*** button, the key flashes green light. You are required to verify the fingerprint. For security concern, the key will be blocked if user fails to verify fingerprint 15 times (3 times per retry x 5 retry counts) in a row. User can only unlock via reset device (All stored data will be lost).



Verify Fingerprint

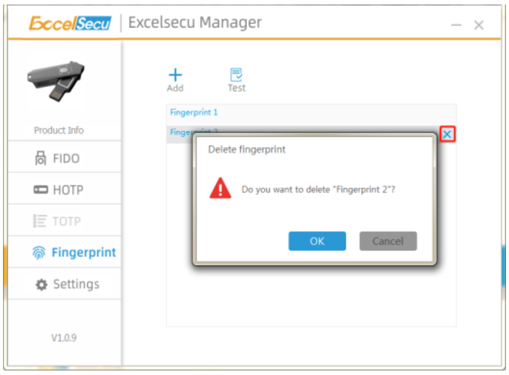
Please touch the fingerprint sensor!



Verify Fingerprint

Fingerprint Verified!

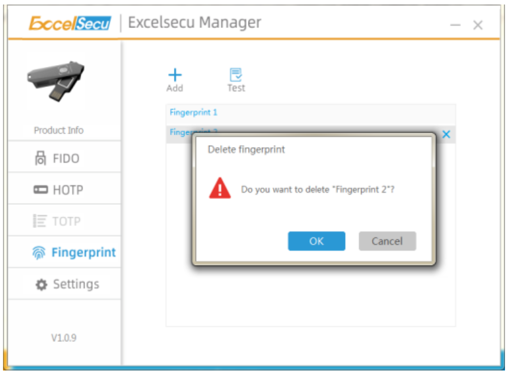
Click × button to delete the fingerprint that you want to remove.



Delete fingerprint

Do you want to delete "Fingerprint 2"?

OK Cancel

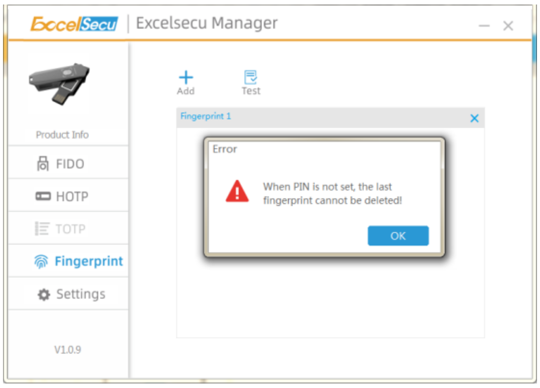


Delete fingerprint

Do you want to delete "Fingerprint 2"?

OK Cancel

If the PIN is not set, the last fingerprint cannot be deleted.



Error

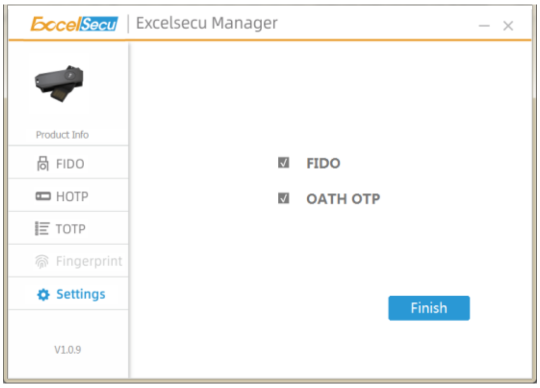
When PIN is not set, the last fingerprint cannot be deleted!

OK

## 2.1.6. Settings

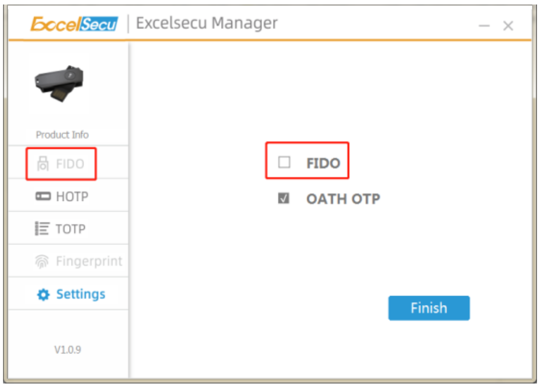
Here you can enable/disable the FIDO or OATH OTP function, but cannot disable both of them at the same time. When one is disabled, the corresponding menu will be grayed out.

*Note: if the platform is Windows 10 version 1903 (build 18298) or above, when the OATH OTP is disabled, you have to run the Excelsecu Manager software as an administrator.*



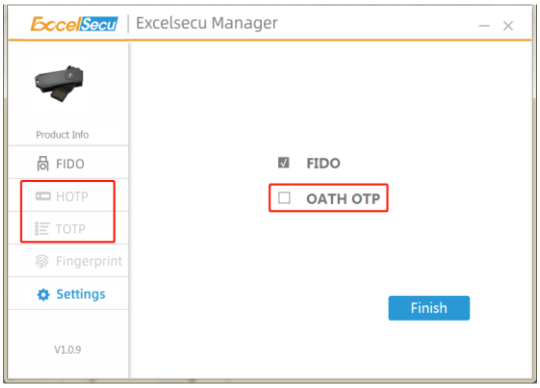
☑ FIDO

☑ OATH OTP



□ FIDO

☑ OATH OTP

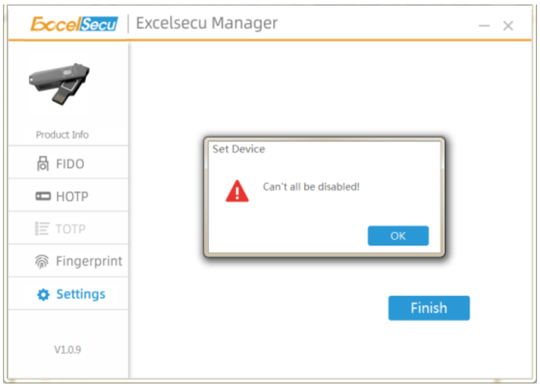


Excelsecu Manager

☑ FIDO

□ OATH OTP

Finish



Excelsecu Manager

Set Device

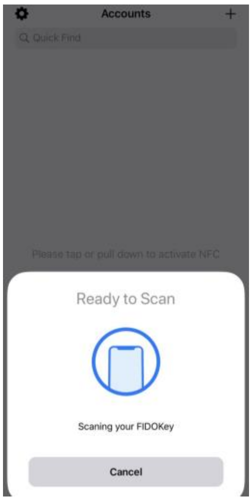
Can't all be disabled!

OK

Finish

## 2.2. iPhone (iOS 13 or above)

(1) Install and open the Authenticator app on your iPhone, pull down the page to activate NFC, and rotate the USB connector of the security key out from the cover, then hold the security key on the top of your iPhone. If there are existing accounts in the key, then the app will show all the existing accounts, if there is no account in the key, the app will show No accounts. Press the + button to add an account, you can enter all the parameters manually just like the PC software, or scan the QR code from the web service which provides TOTP verification.

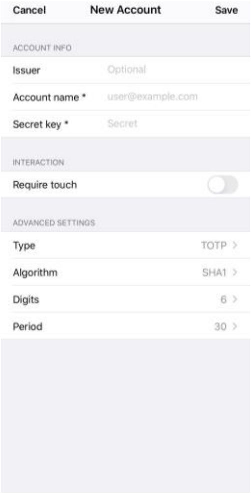


Please tap or pull down to activate NFC

Ready to Scan

Scaning your FIDOKey

Cancel



Cancel | New Account | Save

ACCOUNT INFO

Issuer: Optional

Account name *: user@example.com

Secret key *: Secret

INTERACTION

Require touch

ADVANCED SETTINGS

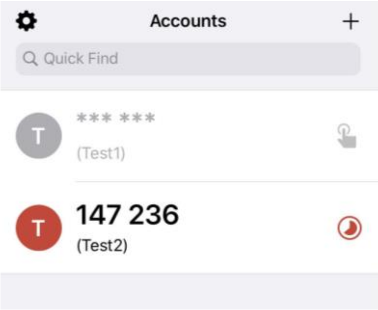
Type: TOTP

Algorithm: SHA1

Digits: 6

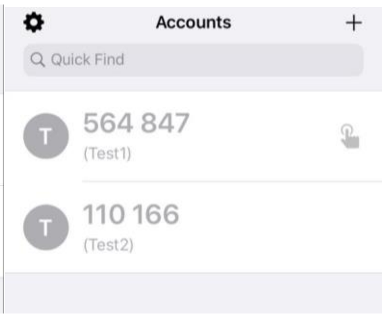
Period: 30

(2) If you want to see the hidden code, click on it, and scan the security key via NFC again, no need to press the button on the key. When the account goes to the next timestep, the codes will be grayed out and will not refresh automatically, it requires pull down the page to scan the security key via NFC again. Left slide the account if you want to delete it.



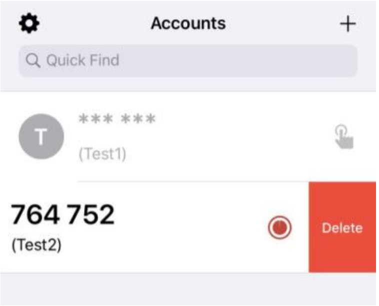
*** *** (Test1)

147 236 (Test2)



564 847 (Test1)

110 166 (Test2)



*** *** (Test1)

764 752 (Test2)

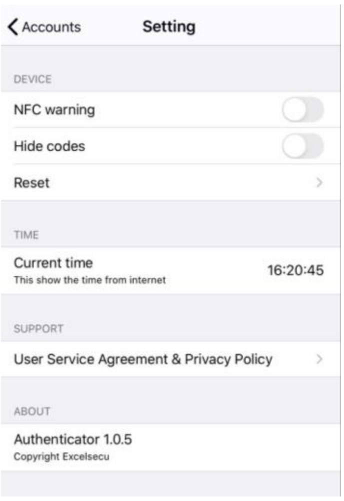
Delete

(3) Click on Settings button on the top, here you can setup some settings.

**NFC warning:** The app will warn when NFC is disabled or missing on the phone.

**Hide codes:** The codes are hidden on the app, click on the account to see the code. It will be hidden again if you leave the home page of the app.

**Reset**: This will delete all your accounts.



< Accounts — Setting

DEVICE

NFC warning ○

Hide codes ○

Reset >

TIME

Current time 16:20:45
This show the time from internet

SUPPORT

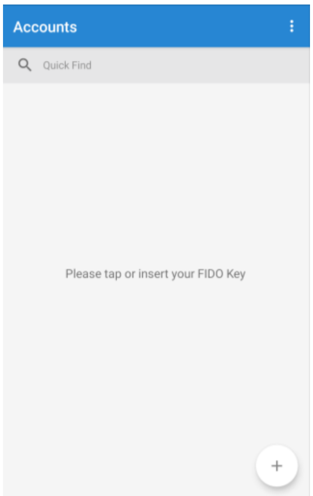
User Service Agreement & Privacy Policy >

ABOUT

Authenticator 1.0.5
Copyright Excelsecu

## 2.3. Android (4.3 or above)

(1) Install and open the app on your phone, make sure your phone's NFC is turned on. Rotate the USB connector of the security key out from the cover, then hold the security key on the back of your phone via NFC. If there are existing accounts in the key, then the app will show all the existing accounts, if there is no account in the key, the app will show No accounts. Press the + button to add an account, you can enter all the parameters manually just like the PC software, or scan the QR code from the web service which provides TOTP verification.

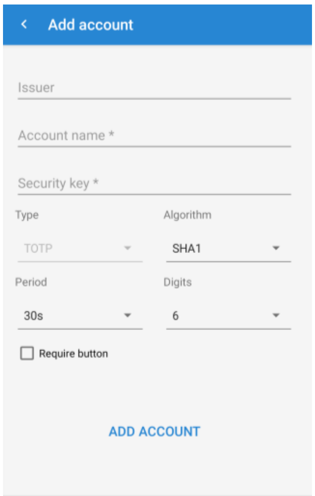


Accounts ⋮

Quick Find

Please tap or insert your FIDO Key

+



< Add account

Issuer

Account name *

Security key *

Type: TOTP

Algorithm: SHA1

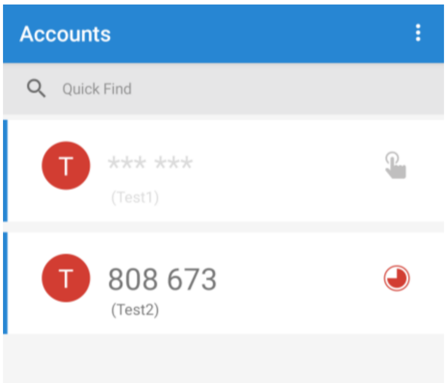
Period: 30s

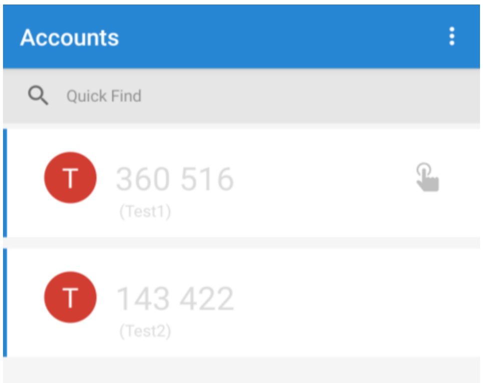
Digits: 6

□ Require button

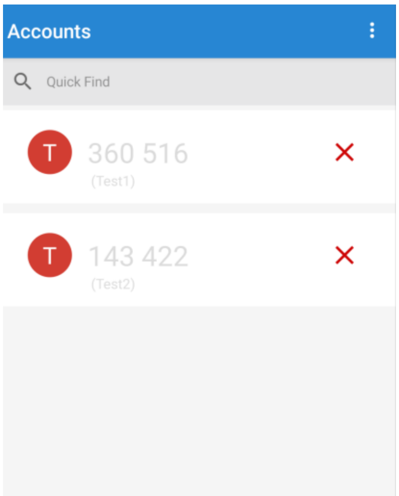
ADD ACCOUNT

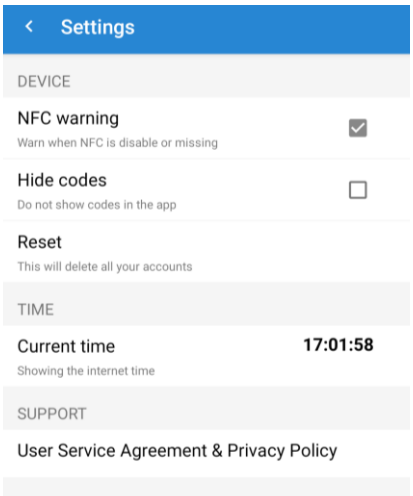
(2) If you want to see the hidden code, click on the right icon of the account, then hold the security key on the back of the phone via NFC again, no need to press the button on the key. When the accounts go to the next timestep, the codes will be grayed out and will not refresh automatically, you need to hold the key on the back of the phone to refresh the codes.





(3) Click on the three dots icon on the top right corner, click on ***Edit***, then you can delete the account you want. Click on ***Settings***, you can setup the same settings like iPhone.





Settings

DEVICE

NFC warning ☑
Warn when NFC is disable or missing

Hide codes □
Do not show codes in the app

Reset
This will delete all your accounts

TIME

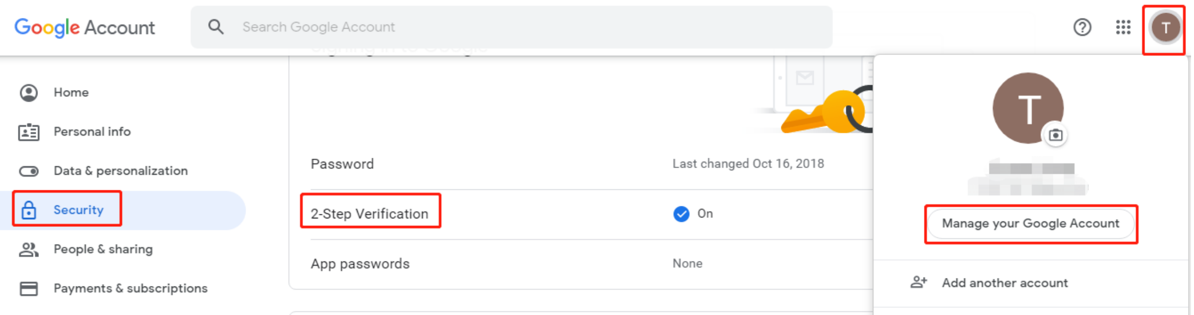
Current time 17:01:58
Showing the internet time

SUPPORT

User Service Agreement & Privacy Policy

# 3. Work with Google Authenticator

1) Go to [***https://www.google.com***](https://www.google.com) and sign in with your Google account. Then go to ***Manage your Google Account -> Security -> 2-Step Verification,*** make sure it is turned on.

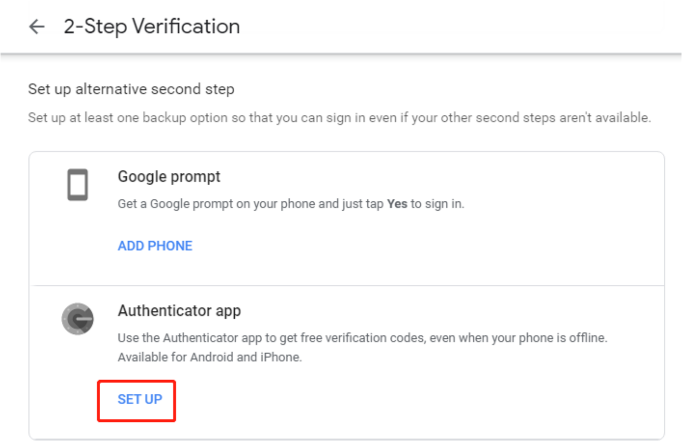


Password Last changed Oct 16, 2018

2-Step Verification On

App passwords None

2) Then go to ***Authenticator app*** and click on ***SET UP***, choose Android or iPhone, then go Next.



← 2-Step Verification

Set up alternative second step

Set up at least one backup option so that you can sign in even if your other second steps aren't available.

Google prompt

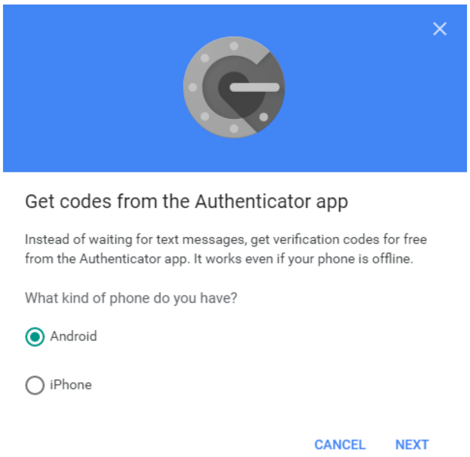
Get a Google prompt on your phone and just tap **Yes** to sign in.

ADD PHONE

Authenticator app

Use the Authenticator app to get free verification codes, even when your phone is offline. Available for Android and iPhone.

SET UP



Get codes from the Authenticator app

Instead of waiting for text messages, get verification codes for free from the Authenticator app. It works even if your phone is offline.

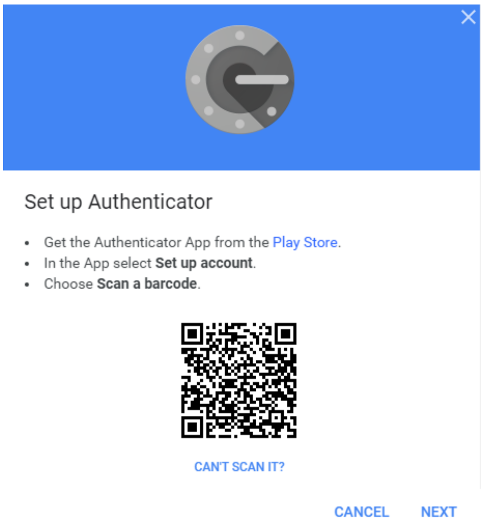
What kind of phone do you have?

● Android

○ iPhone

CANCEL NEXT

3) Then you can use Excelsecu Authenticator on your iPhone or Android phone to scan the QR code, or click on ***CAN'T SCAN IT***, then copy the security key, and paste on the PC software, then go to NEXT.

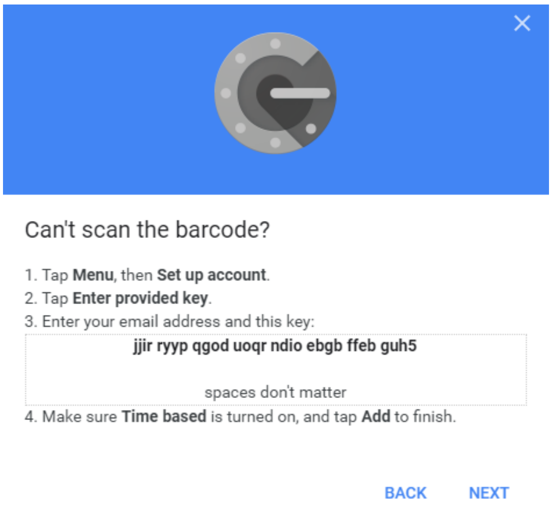


Set up Authenticator

- Get the Authenticator App from the Play Store.
- In the App select **Set up account**.
- Choose **Scan a barcode**.

CAN'T SCAN IT?

CANCEL NEXT



Can't scan the barcode?

1. Tap **Menu**, then **Set up account**.
2. Tap **Enter provided key**.
3. Enter your email address and this key:

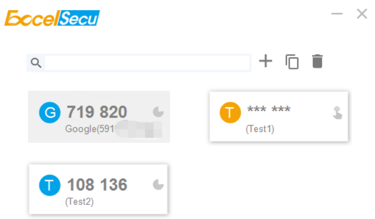
**jjir ryyp qgod uoqr ndio ebgb ffeb guh5**

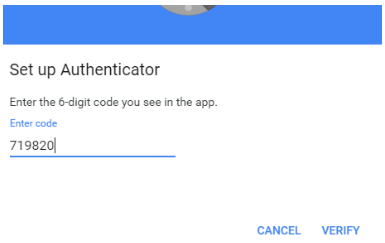
spaces don't matter

4. Make sure **Time based** is turned on, and tap **Add** to finish.

BACK NEXT

4) Get the code from the PC software or phone app, and enter it on the Google page, then go to ***VERIFY.*** *Then* you can use Excelsecu Authenticator to sign in to your Google Account.



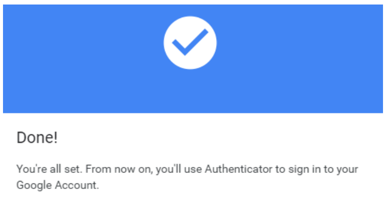


Set up Authenticator

Enter the 6-digit code you see in the app.

Enter code: 719820

CANCEL VERIFY



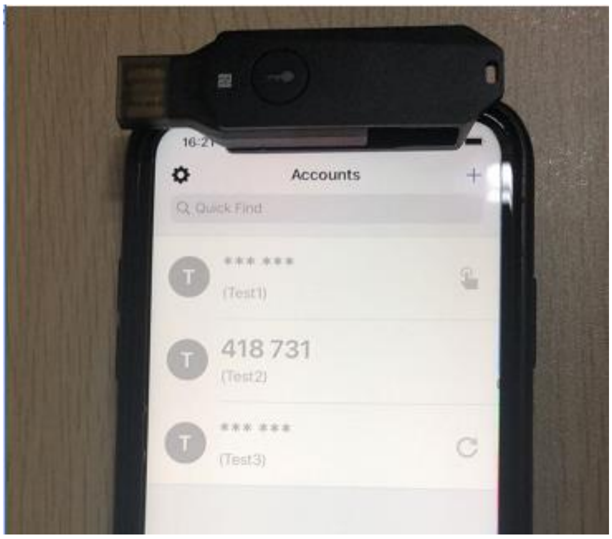
Done!

You're all set. From now on, you'll use Authenticator to sign in to your Google Account.

# 4. FAQ

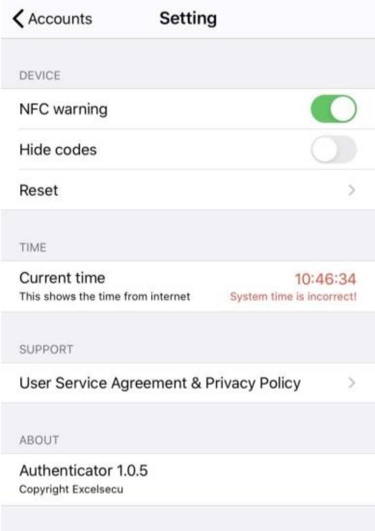
1. Why does the Authenticator app on my iPhone cannot scan the existing accounts in my eSecu FIDO2 security key?

**A:** Please make sure your iPhone has iOS 13 or above installed, and your security key has NFC feature. Then place the security key on the top of your iPhone when scanning, it's better to place the key like the way in the image.



2. What does ***Current Time*** do in the settings of the Authenticator app?

**A:** The codes that Excelsecu Authenticator generates depend on the time of your phone, the ***Current Time*** shows the Internet time, if the time of your phone is incorrect, then the codes generated by the app will not working. If you see the error “System time is incorrect!” on the settings page, please check the time of your phone.



Setting

DEVICE

NFC warning

Hide codes

Reset

TIME

Current time 10:46:34

This shows the time from internet System time is incorrect!

SUPPORT

User Service Agreement & Privacy Policy

ABOUT

Authenticator 1.0.5

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