

TRUSTKEY

Key Manager

User Manual

Draft v0.1

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Overview

TRUSTKEY's security key is a FIDO2 certified authenticator designed based on TRUSTKEY's powerful microprocessor MS500.

TRUSTKEY's security key supports the new FIDO2 / U2F and OTP (TOTP and HOTP) standard so that one can enjoy the benefit of fast login with a strong protection against phishing, account takeover and many other online attacks.

For a first time TRUSTKEY's security key user, you need to run TrustKey Key Manager™ application to enroll your PIN Code on the key. You can download the application from our website:

<https://www.trustkeysolutions.com/support/keymanager/>

Users are required to create a PIN the very first time you run the application. T-series supports a maximum of 150 Resident Keys and supports a maximum number of 50 OTP accounts. All 50 accounts can be used for TOTP accounts, and users are allowed up to two (2) HOTP accounts. After two HOPT accounts are created, the rest of 48 can only be used for TOTP accounts.

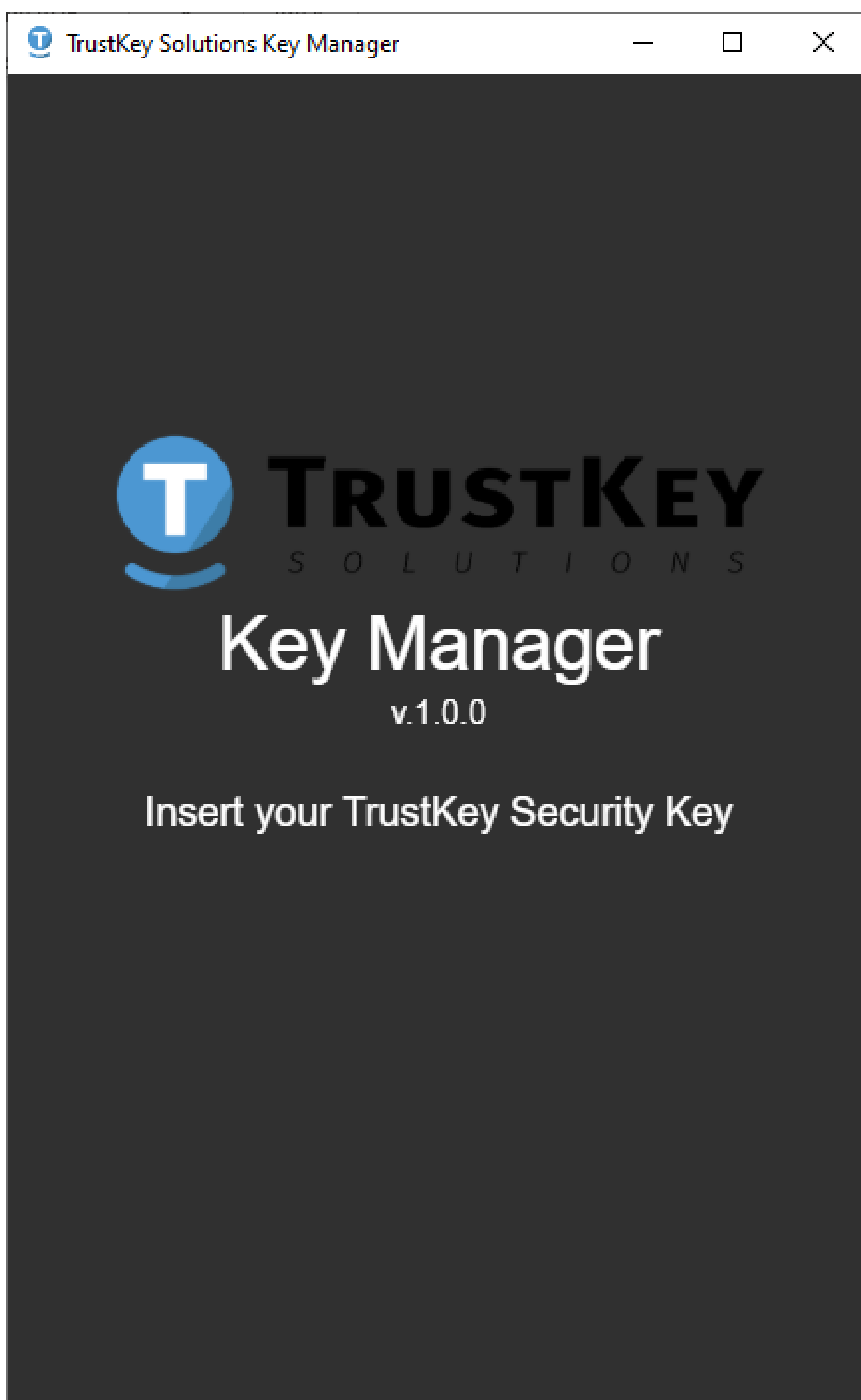
Key Manager runs in the background and can be easily accessed from Windows system tray when used as an authenticator in conjunction with a T-series key.

Install Key Manager™

1. Make sure the Key Manager™ application is downloaded on your PC/Mac.

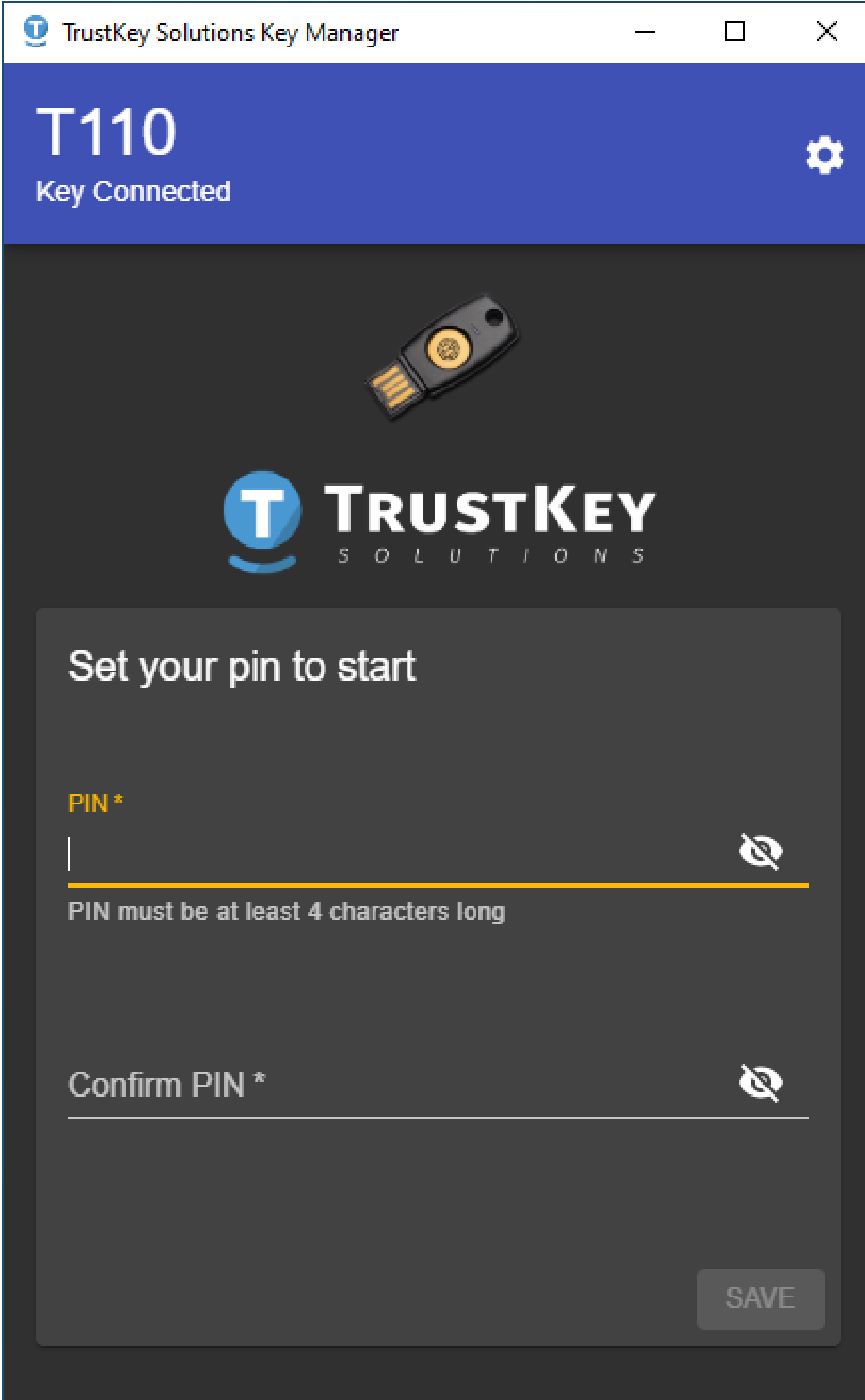
<https://www.trustkeysolutions.com/support/keymanager/>

2. Launch the Key Manager™ application. If you see the following screen, plug your TRUSTKEY's security key into the USB port on your PC/Mac.



How to Create New PIN

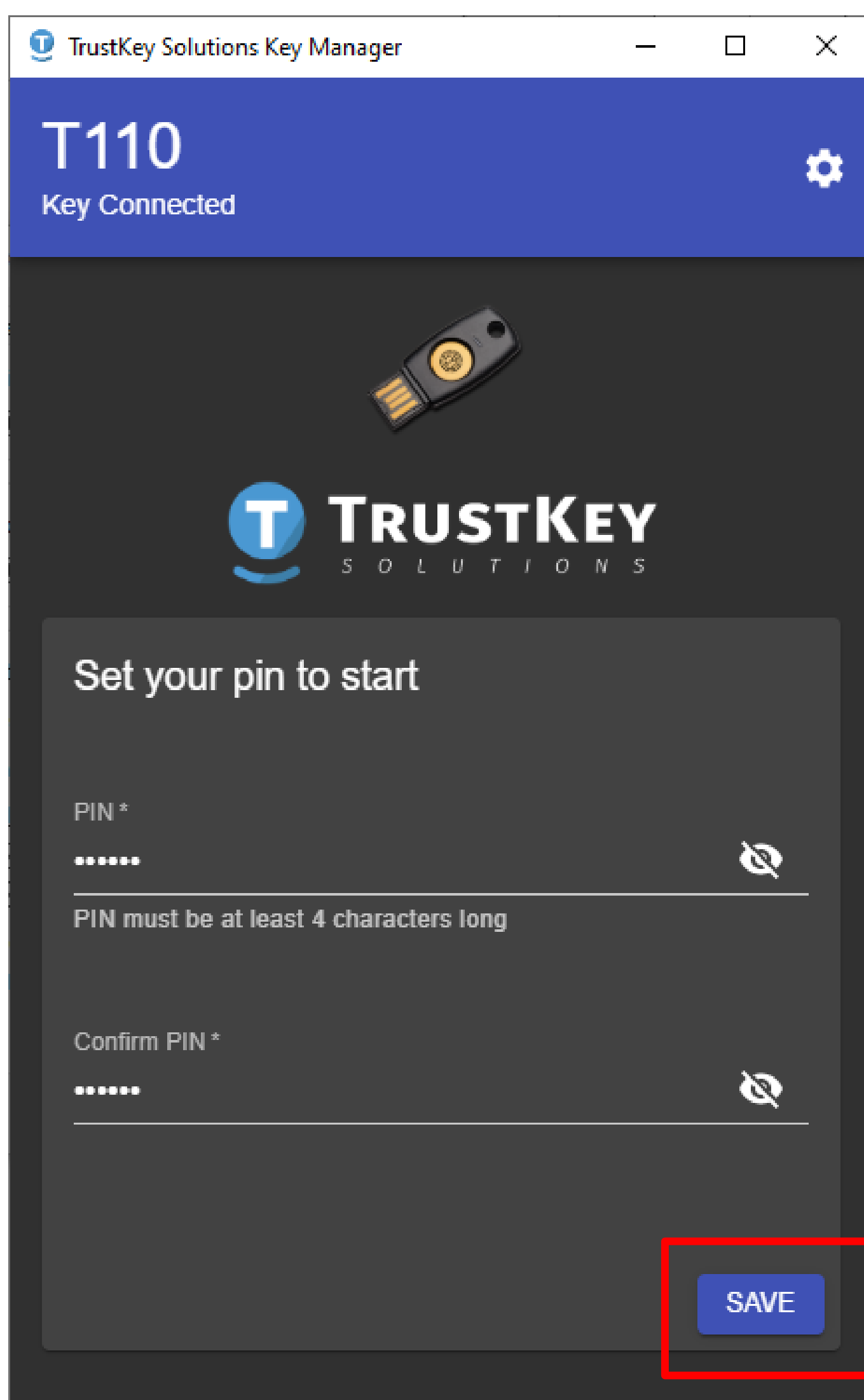
1. Insert T-Series key (T110 or T120) into USB port. For the first time running the application and configuring the key, it will ask you to set a PIN to start. Enter PIN and Confirm PIN. (PIN must be at least 4 characters long).



The screenshot shows a window titled "TrustKey Solutions Key Manager". The main header area is blue and displays "T110" and "Key Connected" with a gear icon for settings. Below this is a dark grey area featuring an image of a USB key and the "TRUSTKEY SOLUTIONS" logo. A central dark grey panel contains the "Set your pin to start" form. This form has two input fields: "PIN *" and "Confirm PIN *", both with toggle icons for visibility. A validation message "PIN must be at least 4 characters long" is shown below the first field. A "SAVE" button is located at the bottom right of the form.

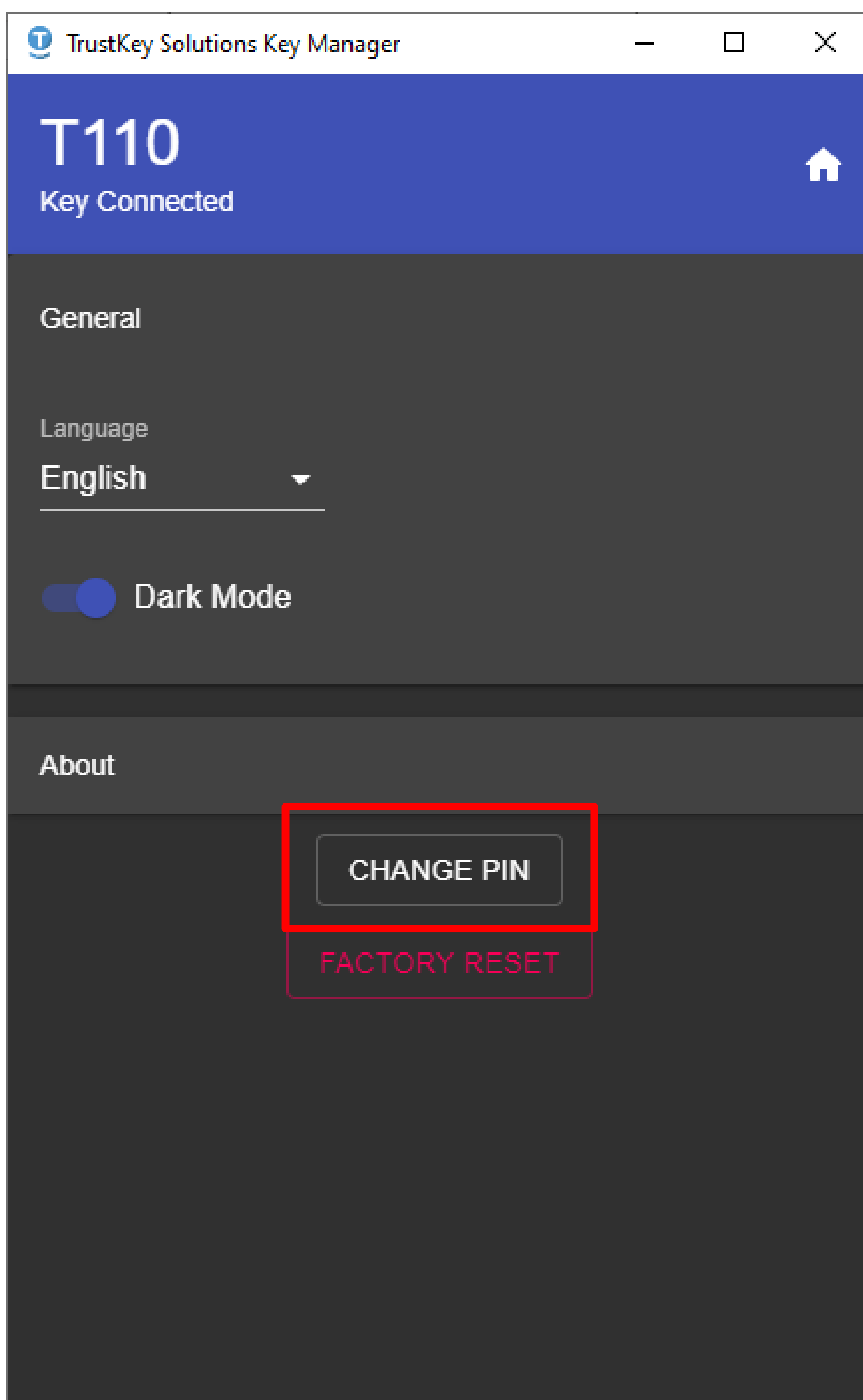
How to Create New PIN

2. Click SAVE.



How to Change PIN

1. Click CHANGE PIN.



How to Change PIN

2. Enter the Current PIN, PIN (new PIN) and Confirm PIN. Click SAVE.

TrustKey Solutions Key Manager

T110
Key Connected

General

Set FIDO2 PIN

Current PIN *
.....

PIN must be at least 4 characters long

PIN *
....

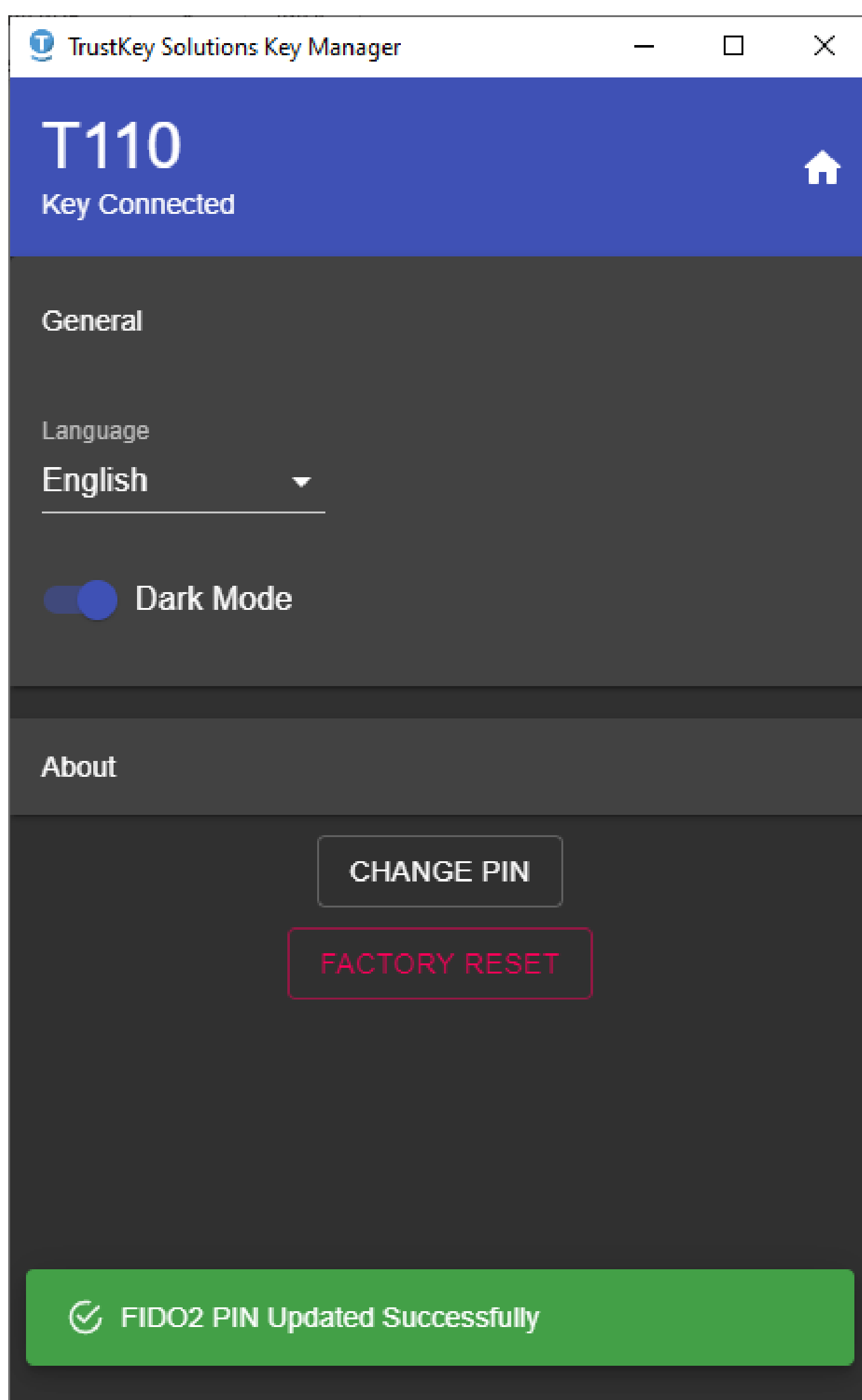
PIN must be at least 4 characters long

Confirm PIN *
....

CANCEL SAVE

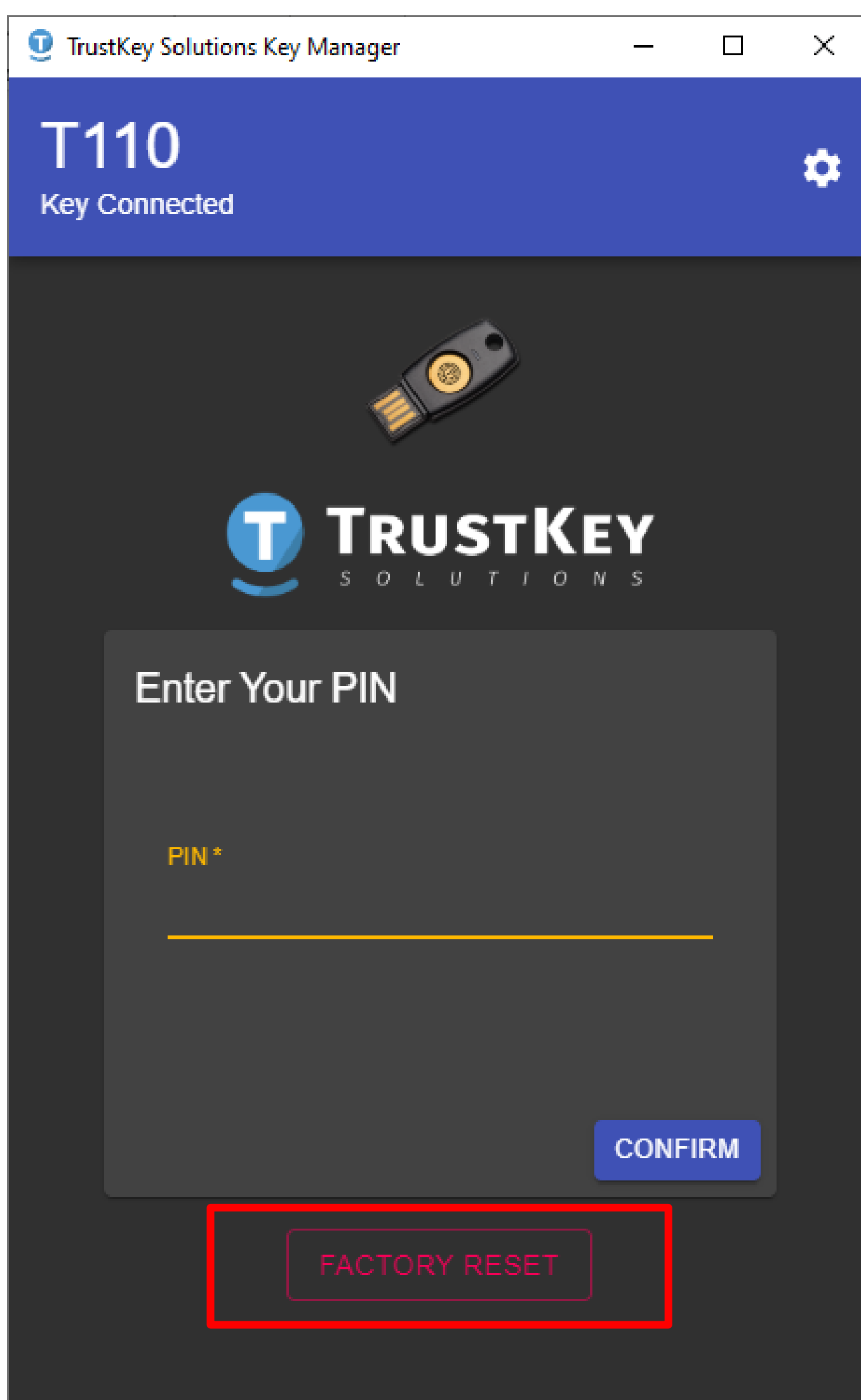
How to Change PIN

3. You have updated the PIN for your security key.



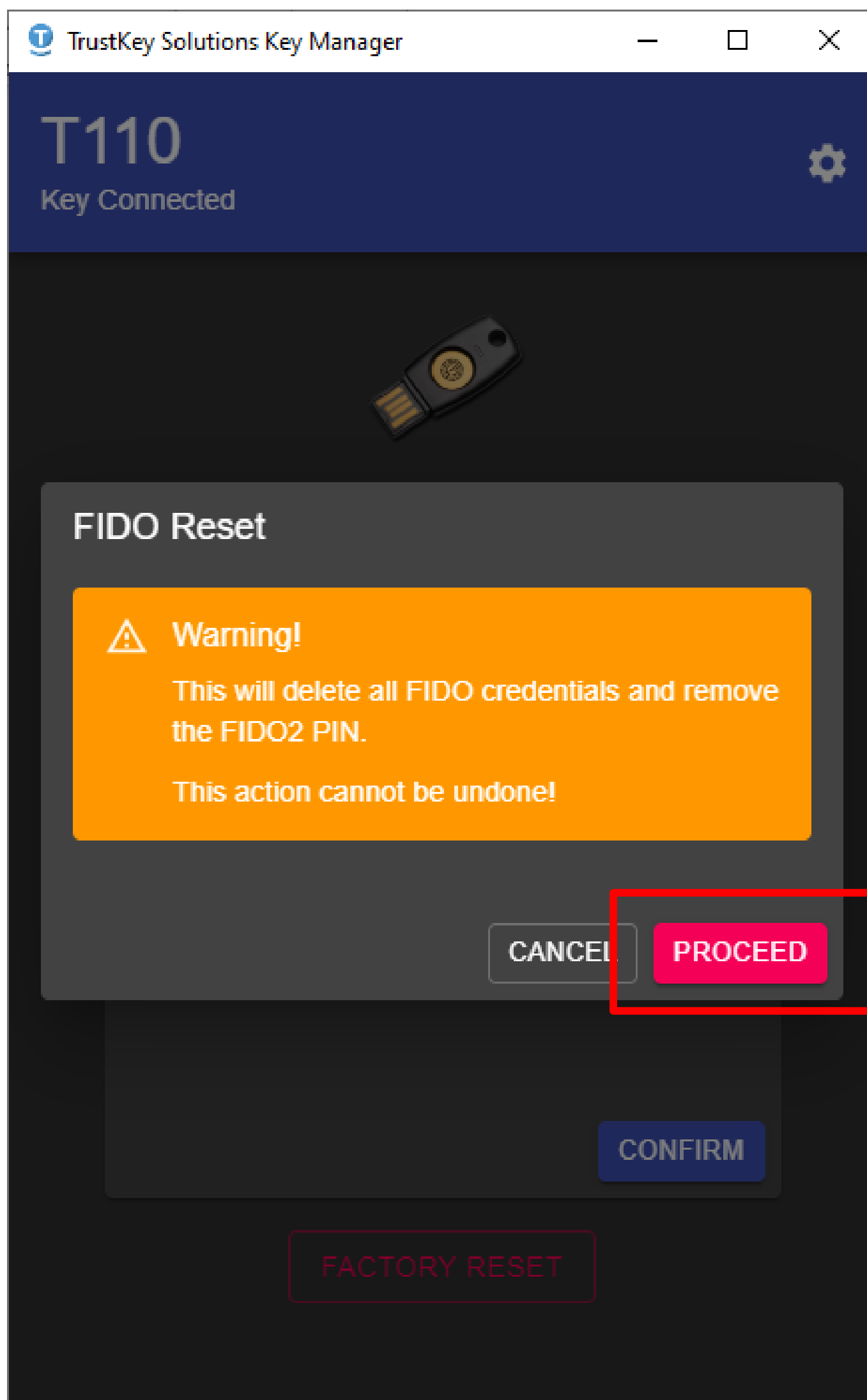
How to Factory Reset

1. Click **FACTORY RESET**.
This will only reset PIN. OTP configuration will not be changed.



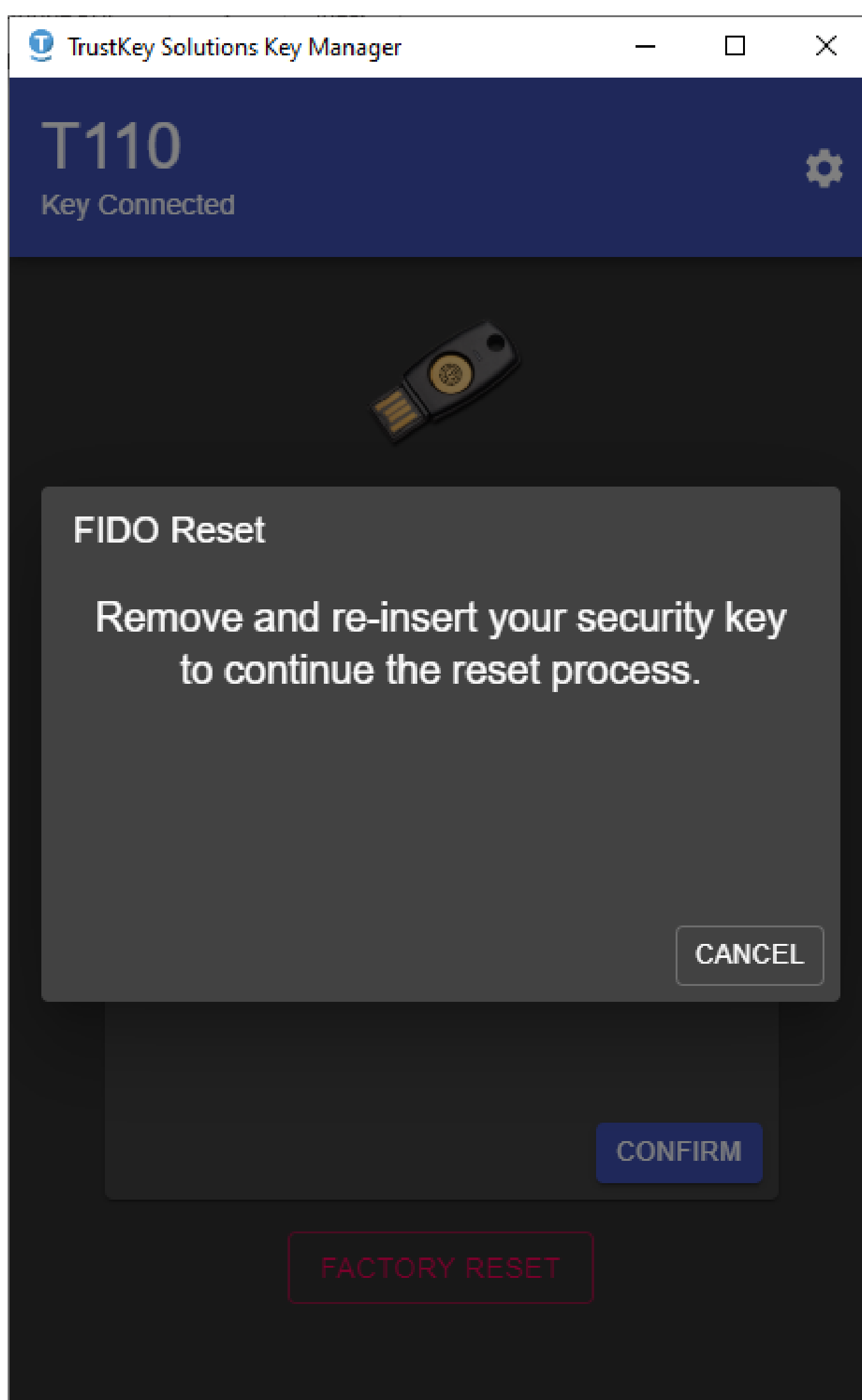
How to Factory Reset

2. Click PROCEED.



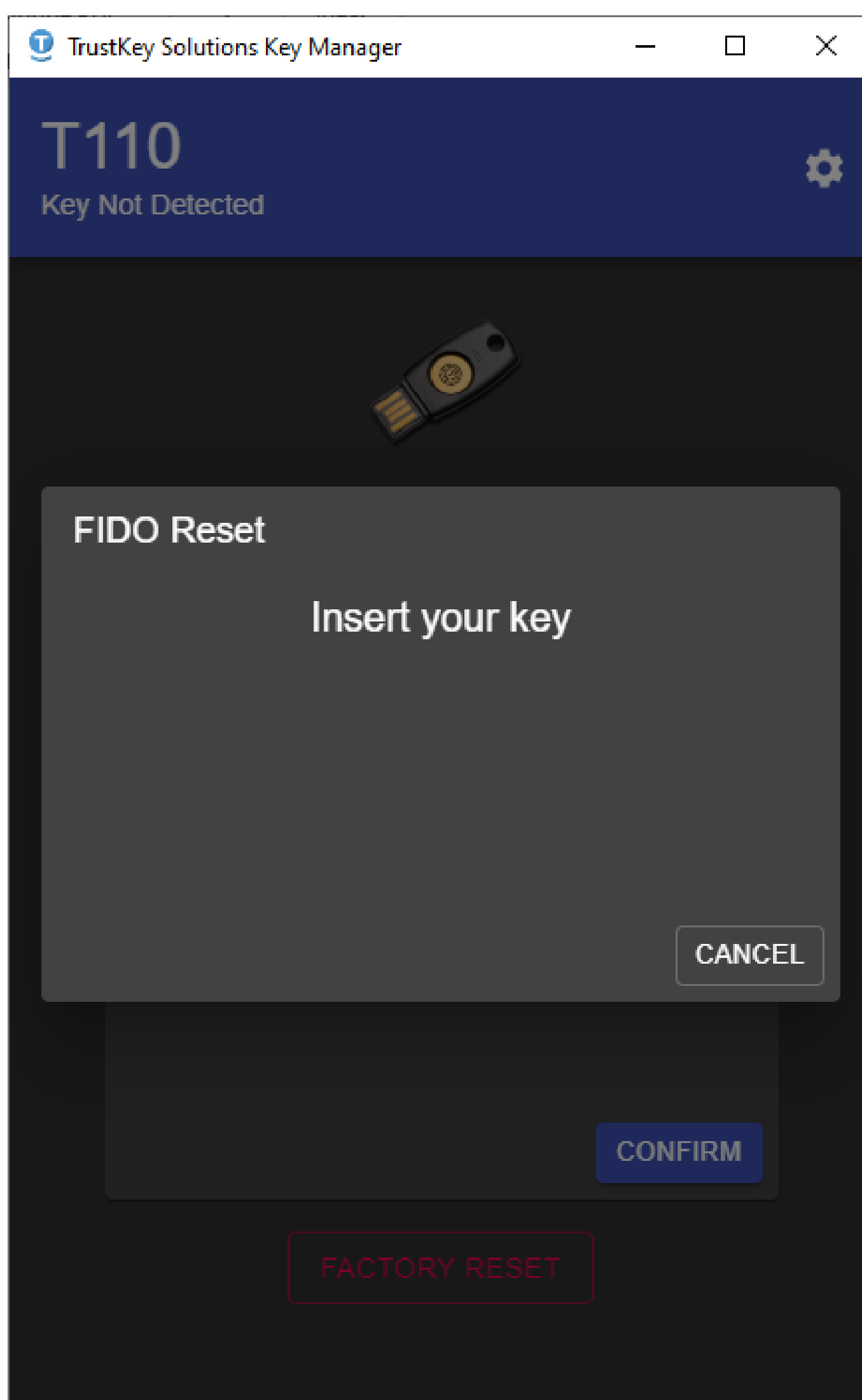
How to Factory Reset

3. Remove your security key from USB Port.



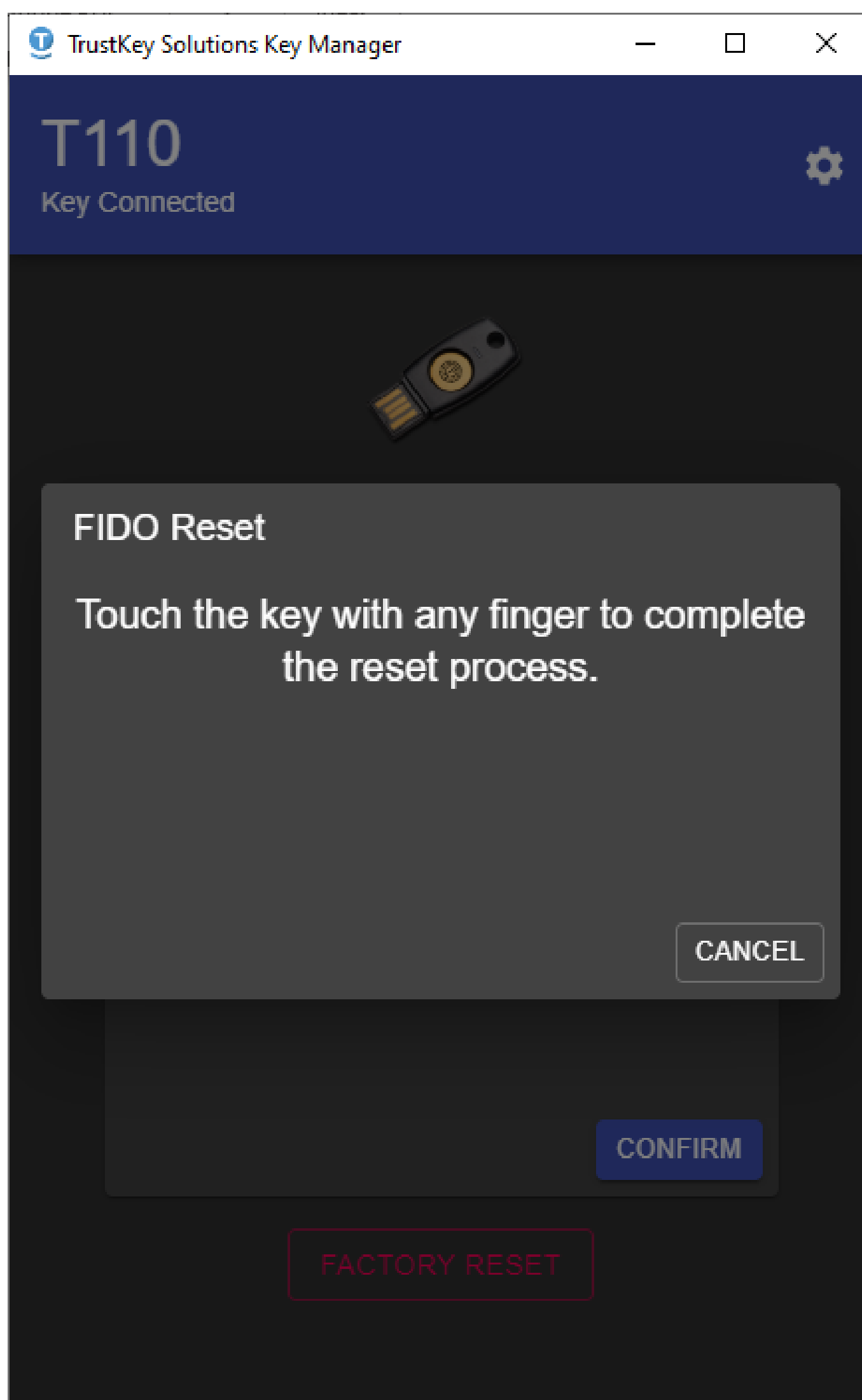
How to Factory Reset

4. Re-insert the security key.



How to Factory Reset

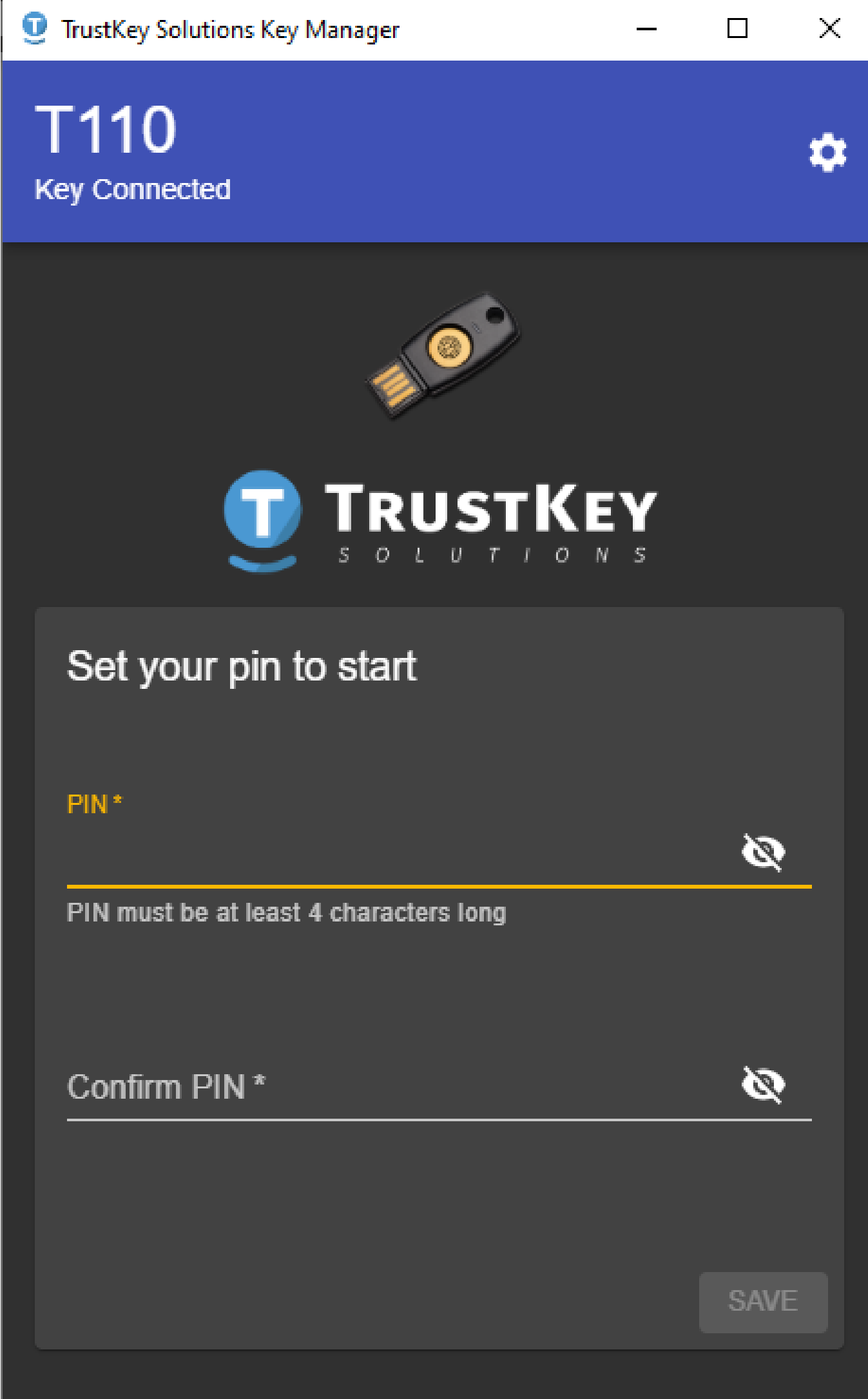
5. Touch the sensor to complete the reset process.



WARNING : After re-inserting the security key, make sure to touch the touch sensor within 10 seconds to continue “FACTORY RESET” process. Otherwise, you will be required to repeat the whole procedure from the beginning.

How to Setup TOTP Account

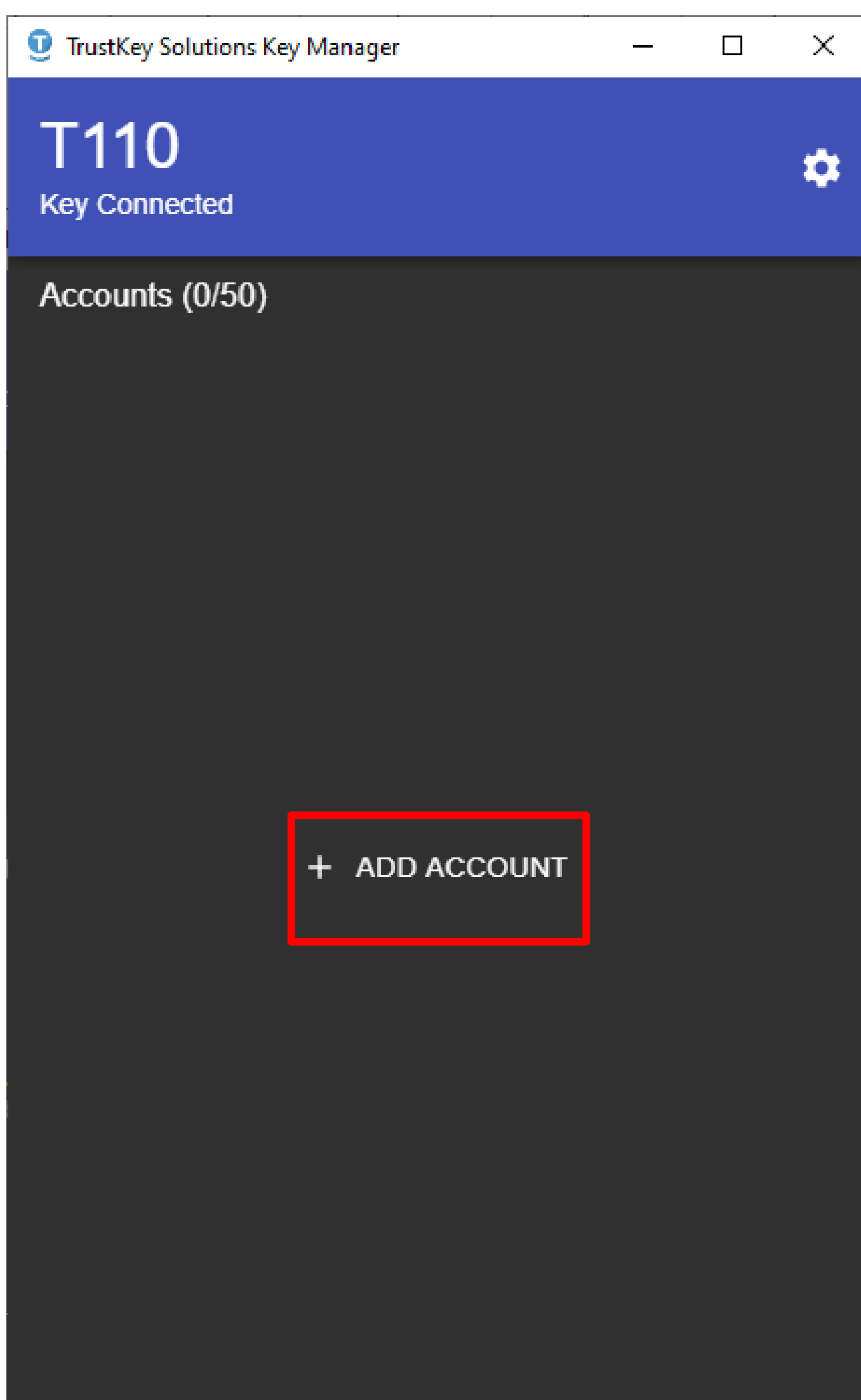
1. T-Series key provides 50 slots for OTP configuration – TOTP and HOTP. There are two ways to configure a slot to save a Secret Key into the key. The application can automatically scan a QR code if it is completely visible on the screen, or a Secret Key can be entered manually. TOTP accounts can be used as a 2FA wherever an authenticator is used.



The screenshot shows the TrustKey Solutions Key Manager application window. The title bar reads "TrustKey Solutions Key Manager". The main interface has a blue header with "T110" and "Key Connected" on the left, and a gear icon on the right. Below the header is a dark grey area with a USB key icon and the "TRUSTKEY SOLUTIONS" logo. A dark grey dialog box is overlaid on the screen with the title "Set your pin to start". It contains two input fields: "PIN *" and "Confirm PIN *", both with eye icons to toggle visibility. A note below the first field states "PIN must be at least 4 characters long". A "SAVE" button is located at the bottom right of the dialog box.

How to Setup TOTP Account

2. Click on + ADD ACCOUNT



How to Setup TOTP Account

3. You can either click on Scan to scan QR Code on the screen or enter HOTP secret key manually.

TrustKey Solutions Key Manager

T110

New Account

name *

github

type

TOTP

SCAN MANUAL ENTRY

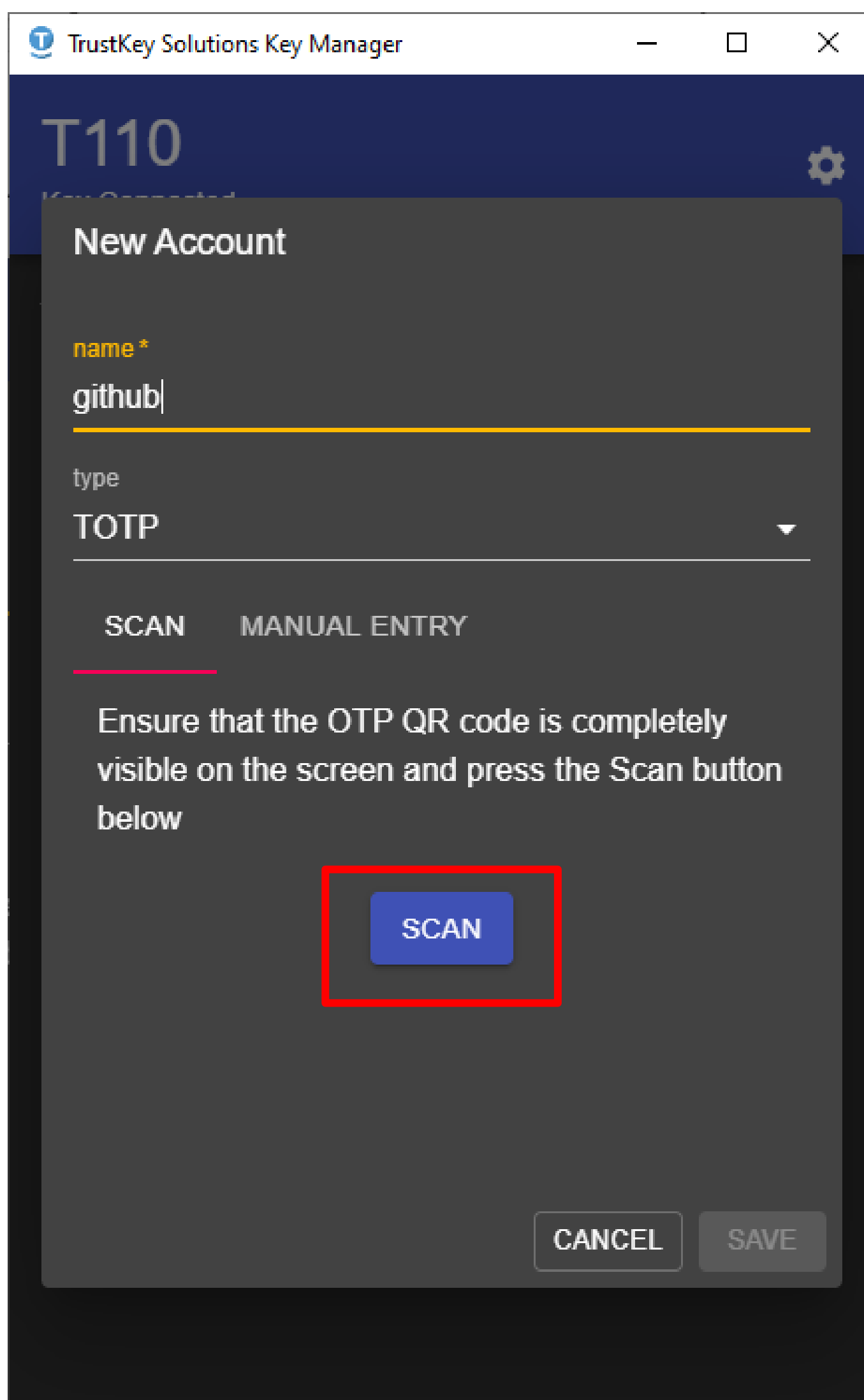
Ensure that the OTP QR code is completely visible on the screen and press the Scan button below

SCAN

CANCEL SAVE

How to Setup TOTP Account

4. If you have QR code given by the server, open the code and press SCAN.



How to Setup TOTP Account

5. Click SAVE.

TrustKey Solutions Key Manager

T110

New Account

name *
github

type
TOTP

SCAN MANUAL ENTRY

Ensure that the OTP QR code is completely visible on the screen and press the Scan button below

SCAN

PS77ZBIEFVQPLQLUKHNXBWCHUQ4IFQKB

CANCEL SAVE

How to Setup TOTP Account

6. Click MANUAL ENTRY.

TrustKey Solutions Key Manager

T110

New Account

name *
github|

type
TOTP

SCAN **MANUAL ENTRY**

Enter the HOTP secret key below

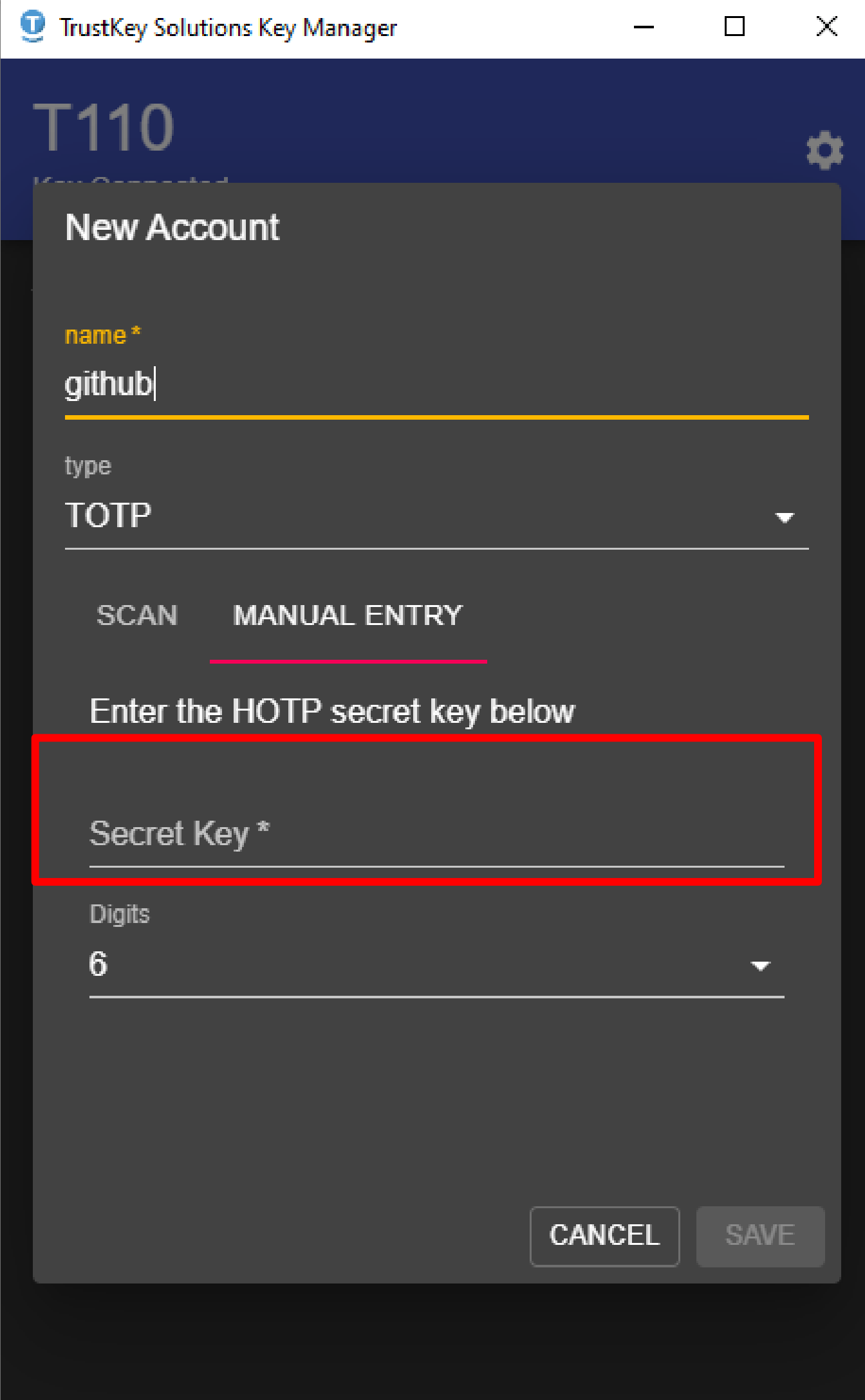
Secret Key *

Digits
6

CANCEL SAVE

How to Setup TOTP Account

7. Enter Secret Key.



The screenshot shows the 'TrustKey Solutions Key Manager' application window. A 'New Account' dialog box is open, displaying the following fields and options:

- name ***: github
- type**: TOTP
- SCAN** / **MANUAL ENTRY** (selected)
- Enter the HOTP secret key below**
- Secret Key *** (highlighted with a red box)
- Digits**: 6
- CANCEL** and **SAVE** buttons

How to Setup TOTP Account

8. Select number of Digits (6-8)

The screenshot shows the 'New Account' dialog box in the TrustKey Solutions Key Manager application. The dialog is titled 'New Account' and has a dark background. It contains the following fields and options:

- name ***: A text input field containing 'github'.
- type**: A dropdown menu set to 'TOTP'.
- SCAN** and **MANUAL ENTRY**: Two radio button options, with 'MANUAL ENTRY' selected and underlined in red.
- Enter the HOTP secret key below**: A text prompt.
- Secret Key ***: A text input field for the secret key.
- Digits**: A dropdown menu set to '6', which is highlighted with a red rectangular box.
- CANCEL** and **SAVE**: Two buttons at the bottom right of the dialog.

How to Setup TOTP Account

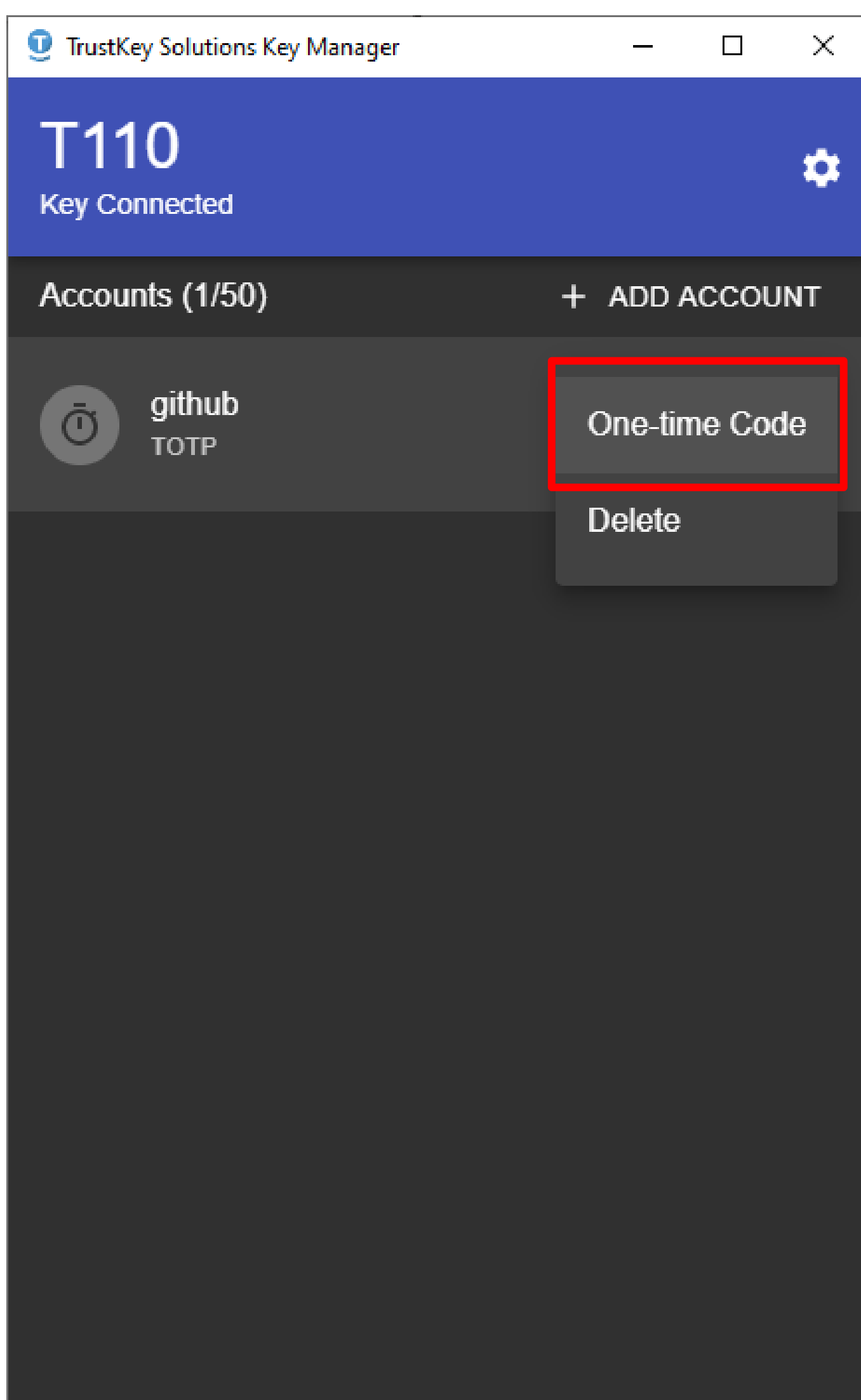
9. Click SAVE.

The screenshot shows the TrustKey Solutions Key Manager application window. A modal dialog titled "New Account" is open. The dialog contains the following fields and options:

- name ***: gihub
- type**: TOTP (dropdown menu)
- SCAN** / **MANUAL ENTRY** (radio buttons, with "MANUAL ENTRY" selected)
- Enter the HOTP secret key below**
- Secret Key ***: PS77ZBIEFVQPLQLUKHNXBWCHUQ4IFQKB
- Digits**: 6 (dropdown menu)
- CANCEL** and **SAVE** buttons at the bottom right. The **SAVE** button is highlighted with a red box.

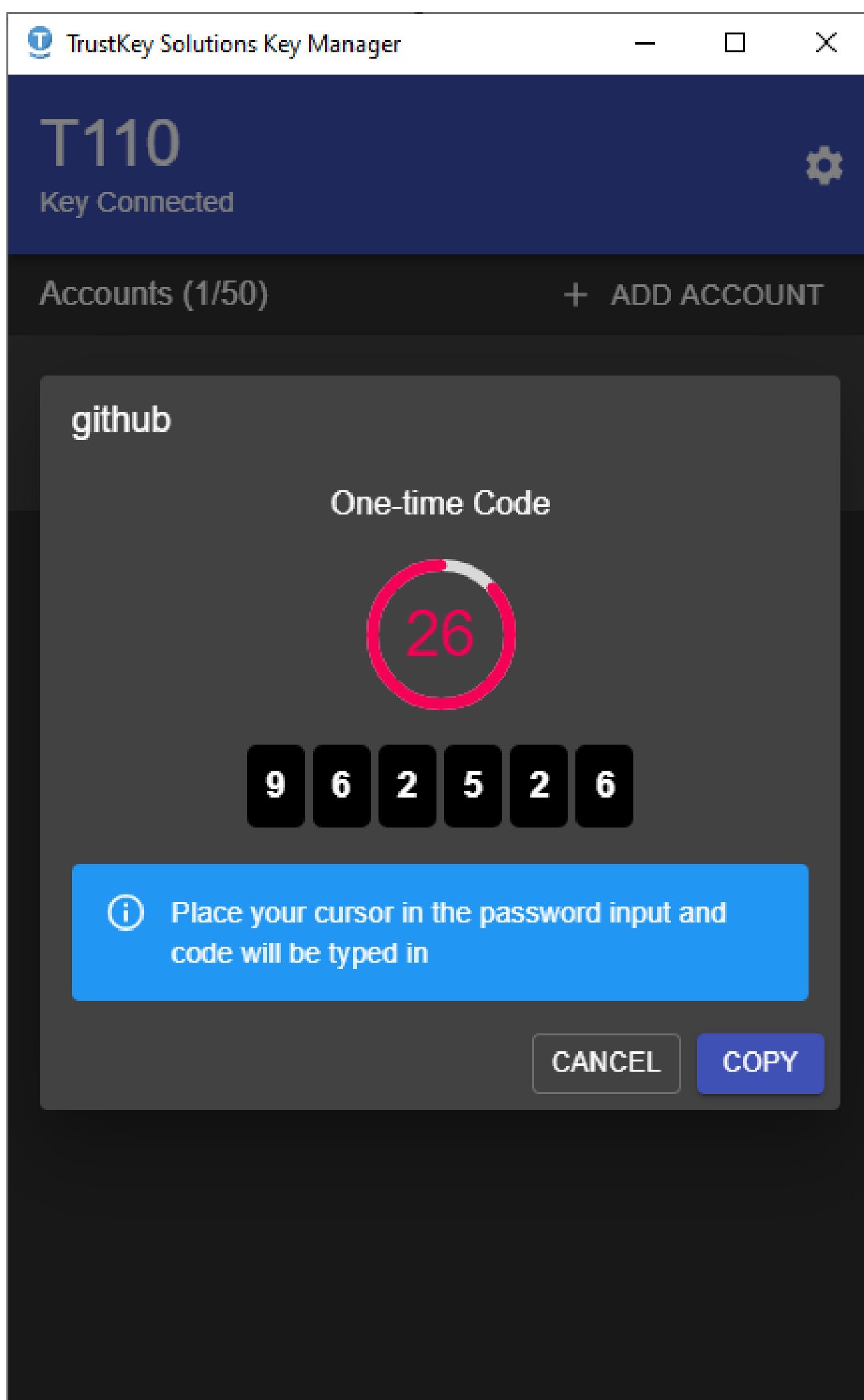
How to Use TOTP

1. Click on a TOTP account or select One-time Code from the account list



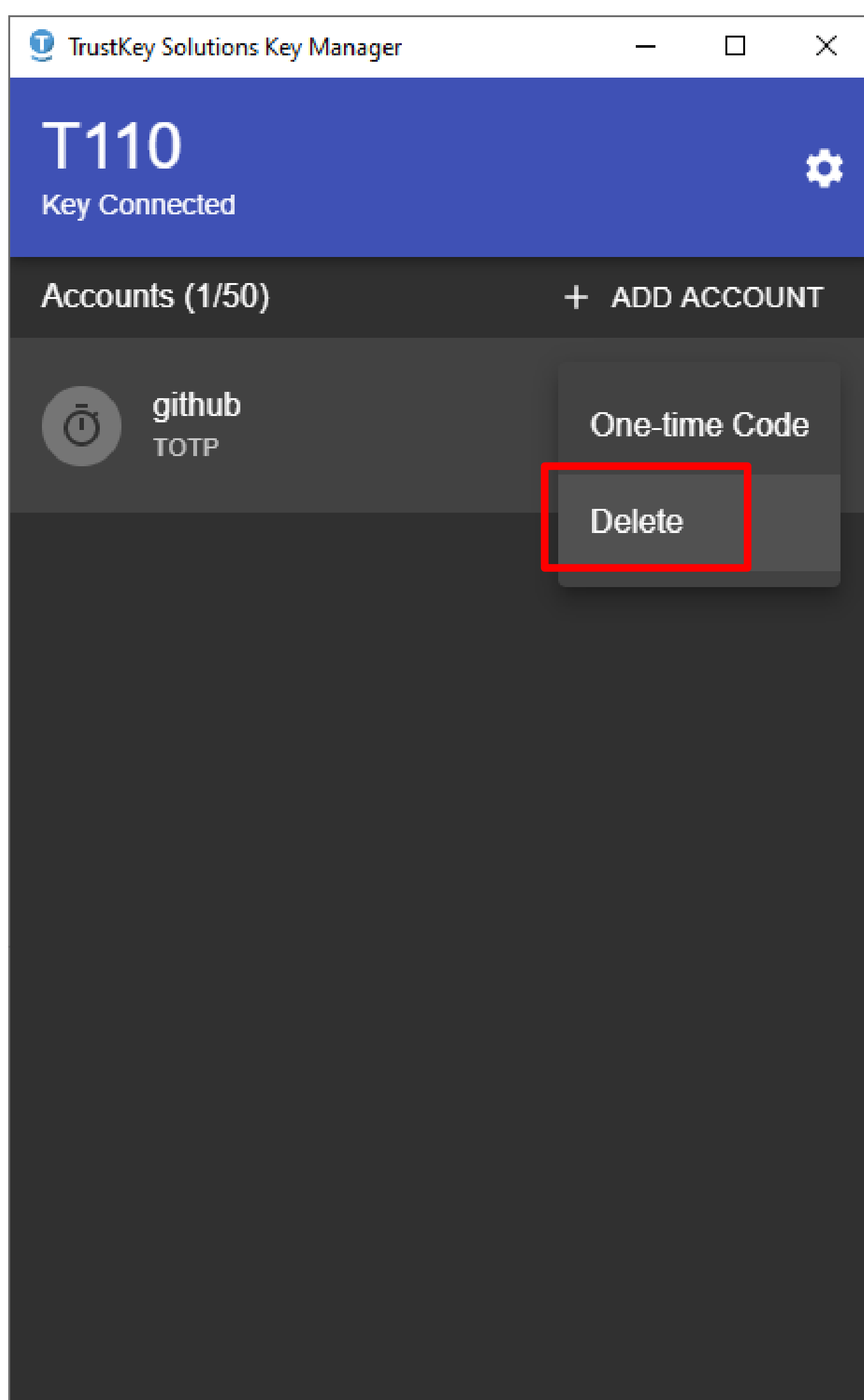
How to Use TOTP

2. Either place the cursor on the TOTP field and touch the key while the key is blinking (within 10 seconds or selecting the account) or click COPY and then paste the copied TOTP value to the TOTP field.



How to Delete TOTP Account

A configured slot(s) can be deleted by selecting Delete.

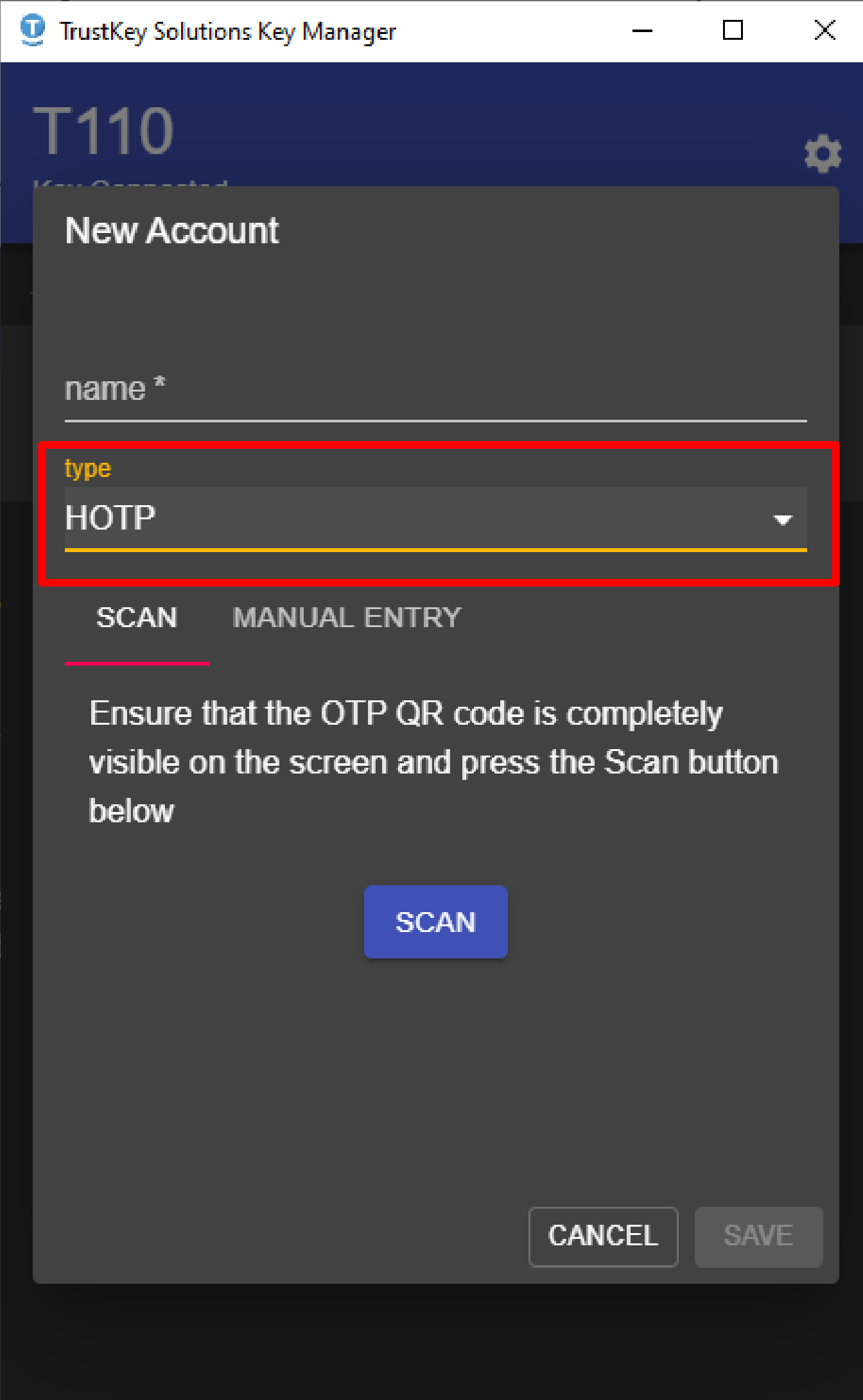


How to Setup HOTP Account

T-Series key provides Short Touch and Long Touch capabilities. The account which has been set to either Short Touch or Long Touch can be used without accompanying Key Manager. Similarly to TOTP account, there are two ways to configure an HOTP account. The application can automatically scan QR code if it is completely visible on the screen, or Secret Key can be entered manually.

How to Setup HOTP Account

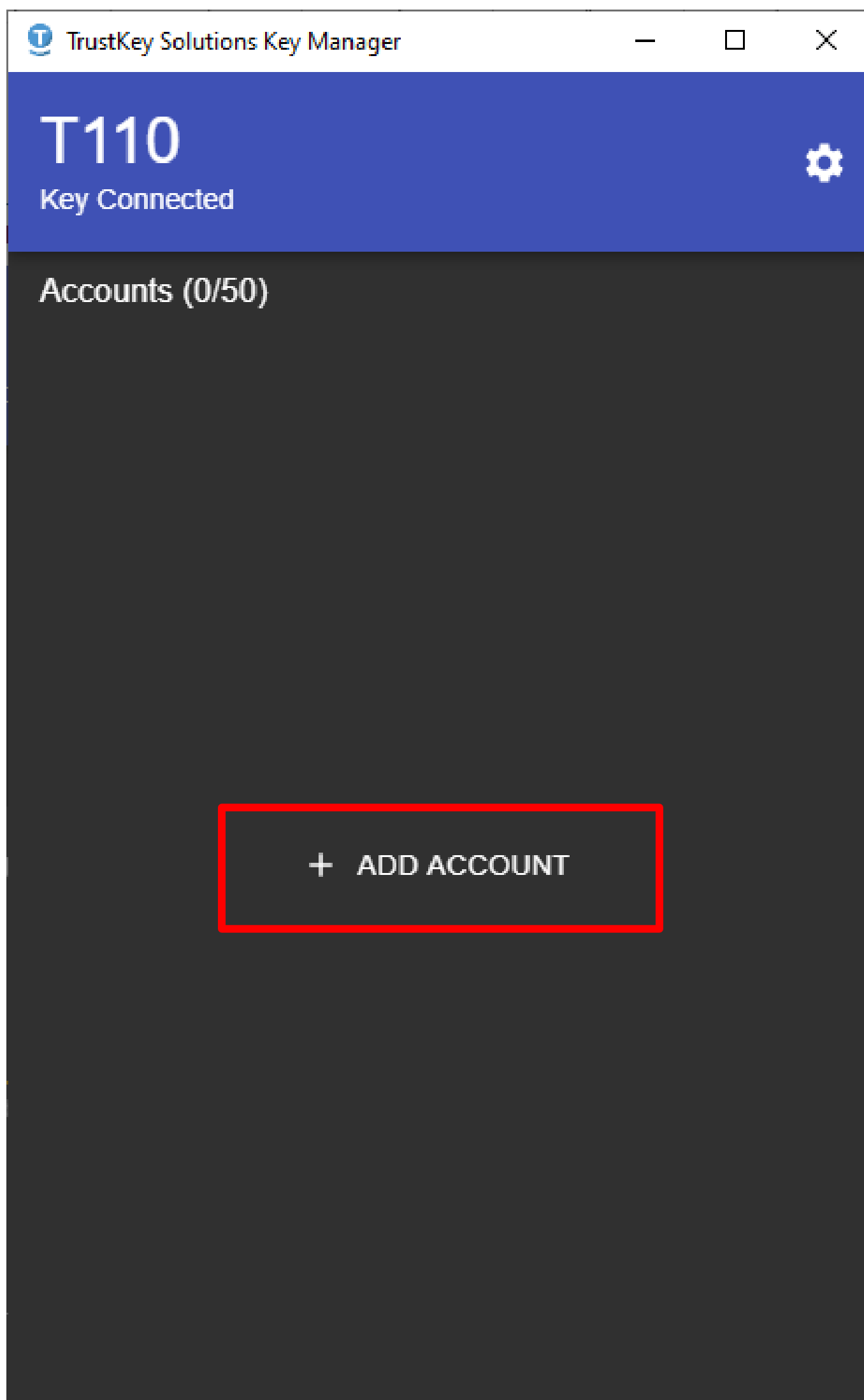
Follow the same process as TOTP but select HOTP under "Type" when setting up a new account.



The screenshot shows the 'TrustKey Solutions Key Manager' application window. A 'New Account' dialog box is open, featuring a dark theme. At the top of the dialog, the title 'New Account' is displayed. Below the title is a text input field labeled 'name *'. The 'type' dropdown menu is highlighted with a red rectangular border and currently shows 'HOTP'. Below the dropdown, there are two tabs: 'SCAN' (which is selected and underlined) and 'MANUAL ENTRY'. A blue 'SCAN' button is positioned below the 'SCAN' tab. At the bottom of the dialog, there are 'CANCEL' and 'SAVE' buttons. The background of the application shows a blurred view of the 'T110' account setup screen.

How to Setup HOTP Account

1. Click on + ADD ACCOUNT



How to Setup HOTP Account

2. You can either click on Scan to scan QR Code on the screen or enter HOTP secret key manually.

TrustKey Solutions Key Manager

T110

New Account

name *

type

HOTP

SCAN MANUAL ENTRY

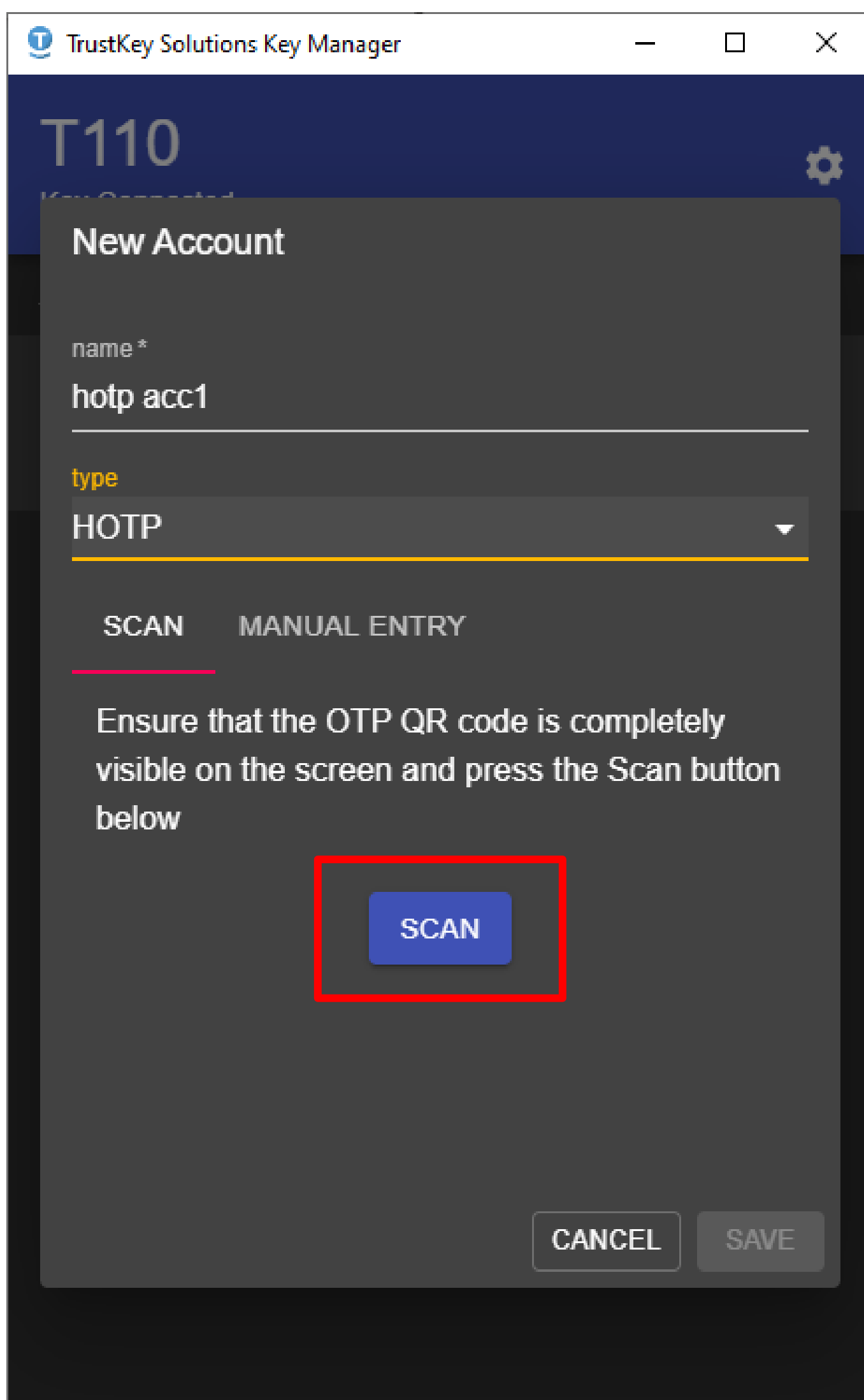
Ensure that the OTP QR code is completely visible on the screen and press the Scan button below

SCAN

CANCEL SAVE

How to Setup HOTP Account

3. If you have QR code given by the server, open the code and press SCAN.



How to Setup HOTP Account

4. Click SAVE.

TrustKey Solutions Key Manager

T110

New Account

name *

hotp acc1

type

HOTP

SCAN MANUAL ENTRY

Ensure that the OTP QR code is completely visible on the screen and press the Scan button below

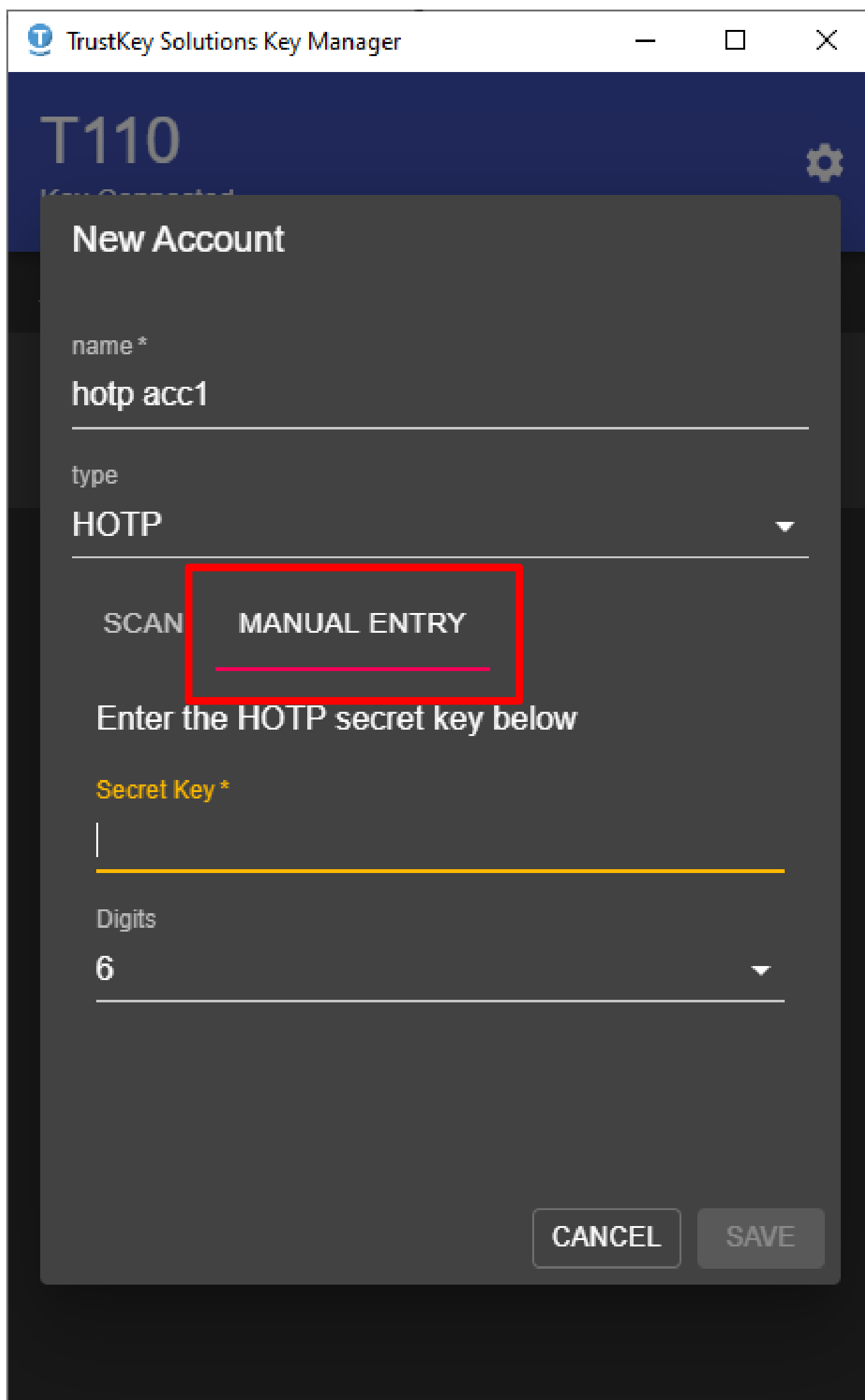
SCAN

PS77ZBIEFVQPLQLUKHNXBWCHUQ4IFQKB

CANCEL SAVE

How to Setup HOTP Account

5. Click MANUAL ENTRY tab.

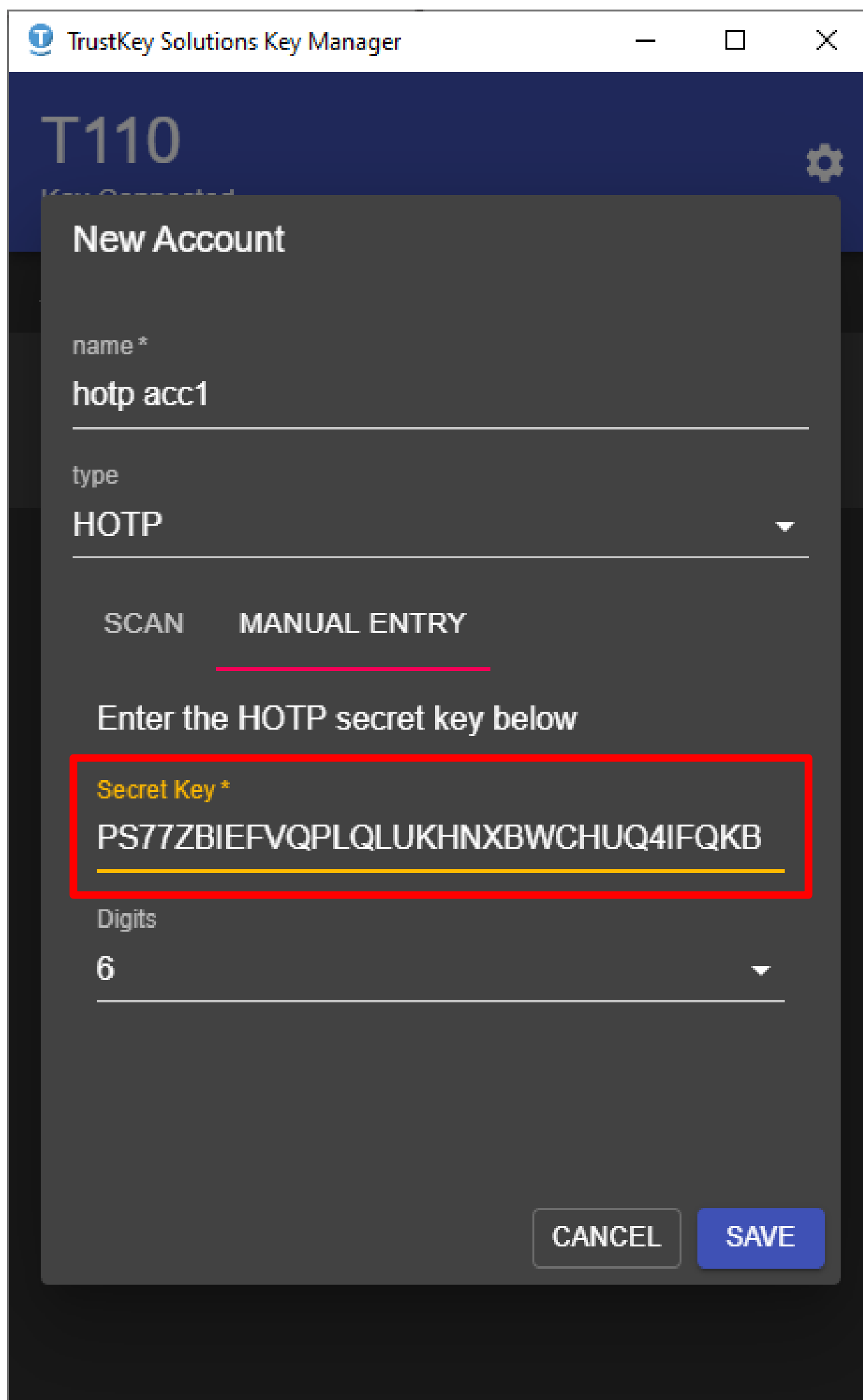


The screenshot shows a 'New Account' dialog box in the TrustKey Solutions Key Manager application. The dialog box is dark-themed and contains the following fields and options:

- name ***: hotp acc1
- type**: HOTP (dropdown menu)
- SCAN** and **MANUAL ENTRY** tabs. The **MANUAL ENTRY** tab is highlighted with a red box.
- Enter the HOTP secret key below**: A text input field for the secret key.
- Secret Key ***: A label for the secret key field.
- Digits**: 6 (dropdown menu)
- CANCEL** and **SAVE** buttons at the bottom right.

How to Setup HOTP Account

6. Enter Secret Key

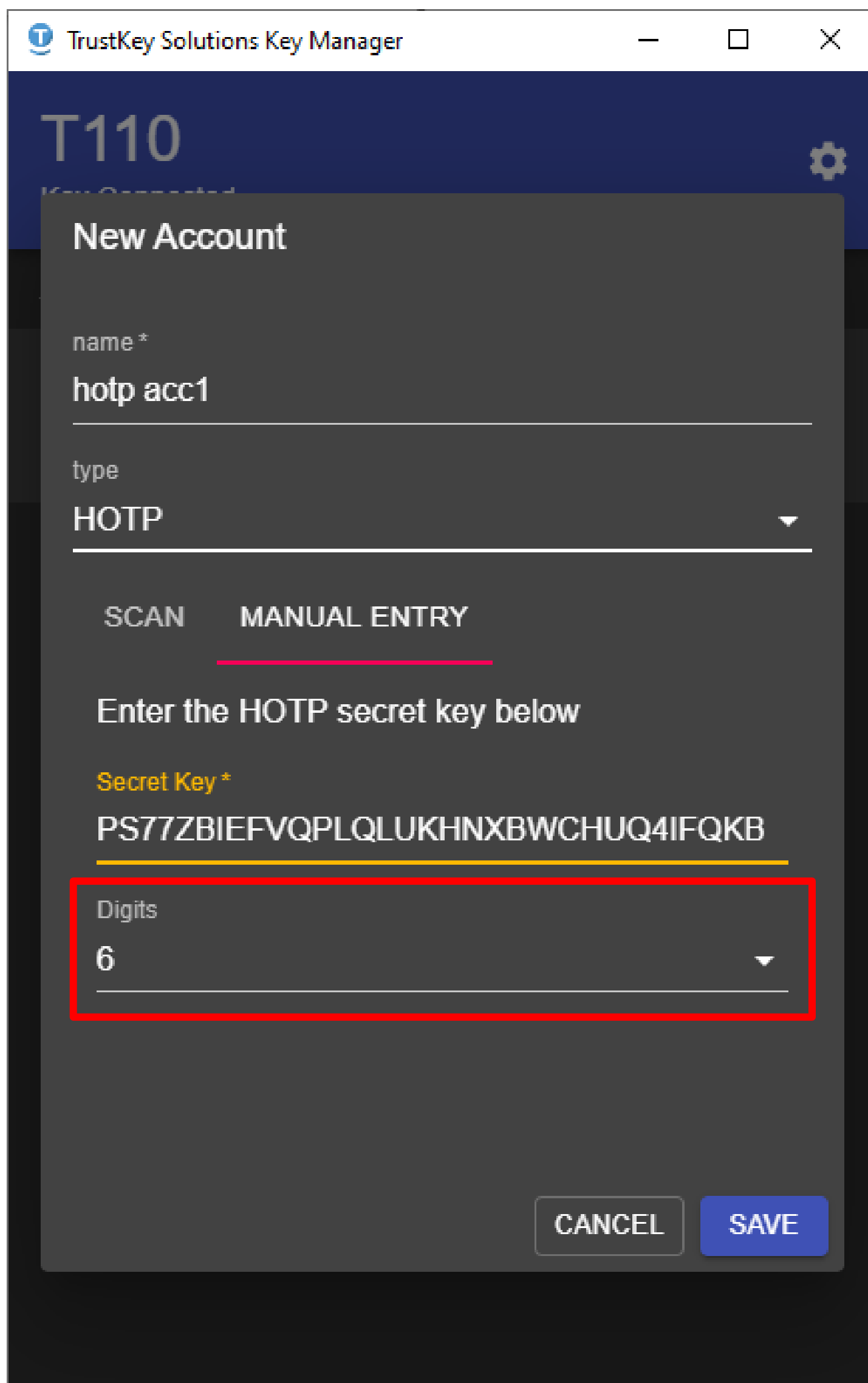


The screenshot shows the TrustKey Solutions Key Manager application window. A modal dialog titled "New Account" is open. The dialog has a dark background and contains the following fields and options:

- name ***: A text input field containing "hotp acc1".
- type**: A dropdown menu set to "HOTP".
- SCAN** and **MANUAL ENTRY**: Two tabs, with "MANUAL ENTRY" selected and underlined in red.
- Enter the HOTP secret key below**: A text prompt above a text input field.
- Secret Key ***: A text input field containing the alphanumeric string "PS77ZBIEFVQPLQLUKHNXBWCHUQ4IFQKB". This field is highlighted with a red rectangular border.
- Digits**: A dropdown menu set to "6".
- CANCEL** and **SAVE**: Two buttons at the bottom right of the dialog.

How to Setup HOTP Account

7. Select number of Digits (6-8)



The screenshot shows the 'New Account' dialog box in the TrustKey Solutions Key Manager application. The dialog is titled 'New Account' and contains the following fields and options:

- name ***: hotp acc1
- type**: HOTP (dropdown menu)
- SCAN** / **MANUAL ENTRY** (radio buttons, with 'MANUAL ENTRY' selected)
- Enter the HOTP secret key below**
- Secret Key ***: PS77ZBIEFVQPLQLUKHNXBWCHUQ4IFQKB
- Digits**: 6 (dropdown menu, highlighted with a red box)

At the bottom of the dialog, there are two buttons: **CANCEL** and **SAVE**.

How to Setup HOTP Account

8. Click SAVE.

Depending on which slot HOTP is configured, either a Long Touch or Short Touch can generate OTP value directly on the text field.

TrustKey Solutions Key Manager

T110

New Account

name *

hotp acc1

type

HOTP

SCAN MANUAL ENTRY

Enter the HOTP secret key below

Secret Key *

PS77ZBIEFVQPLQLUKHNXBWCHUQ4IFQKB

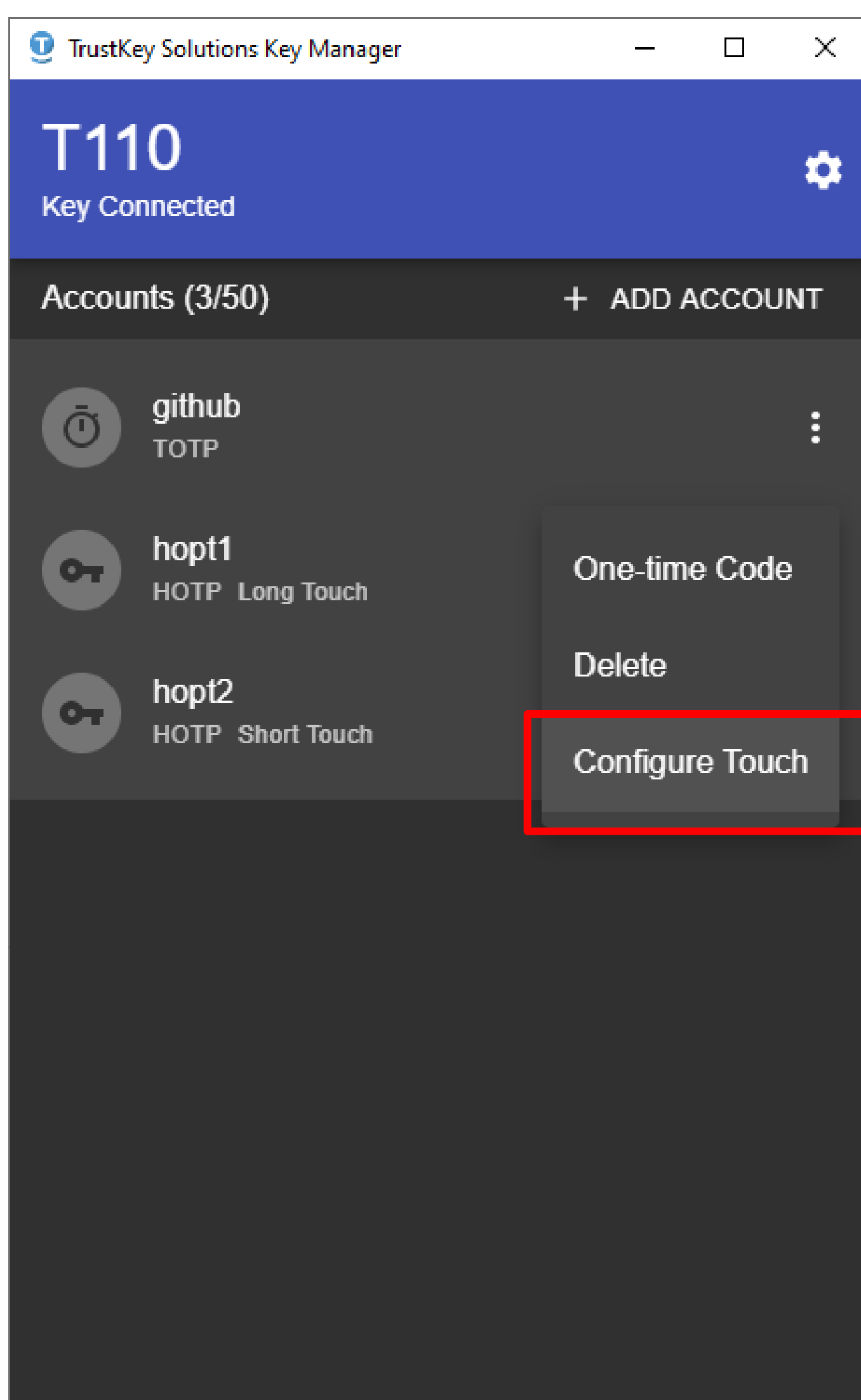
Digits

6

CANCEL SAVE

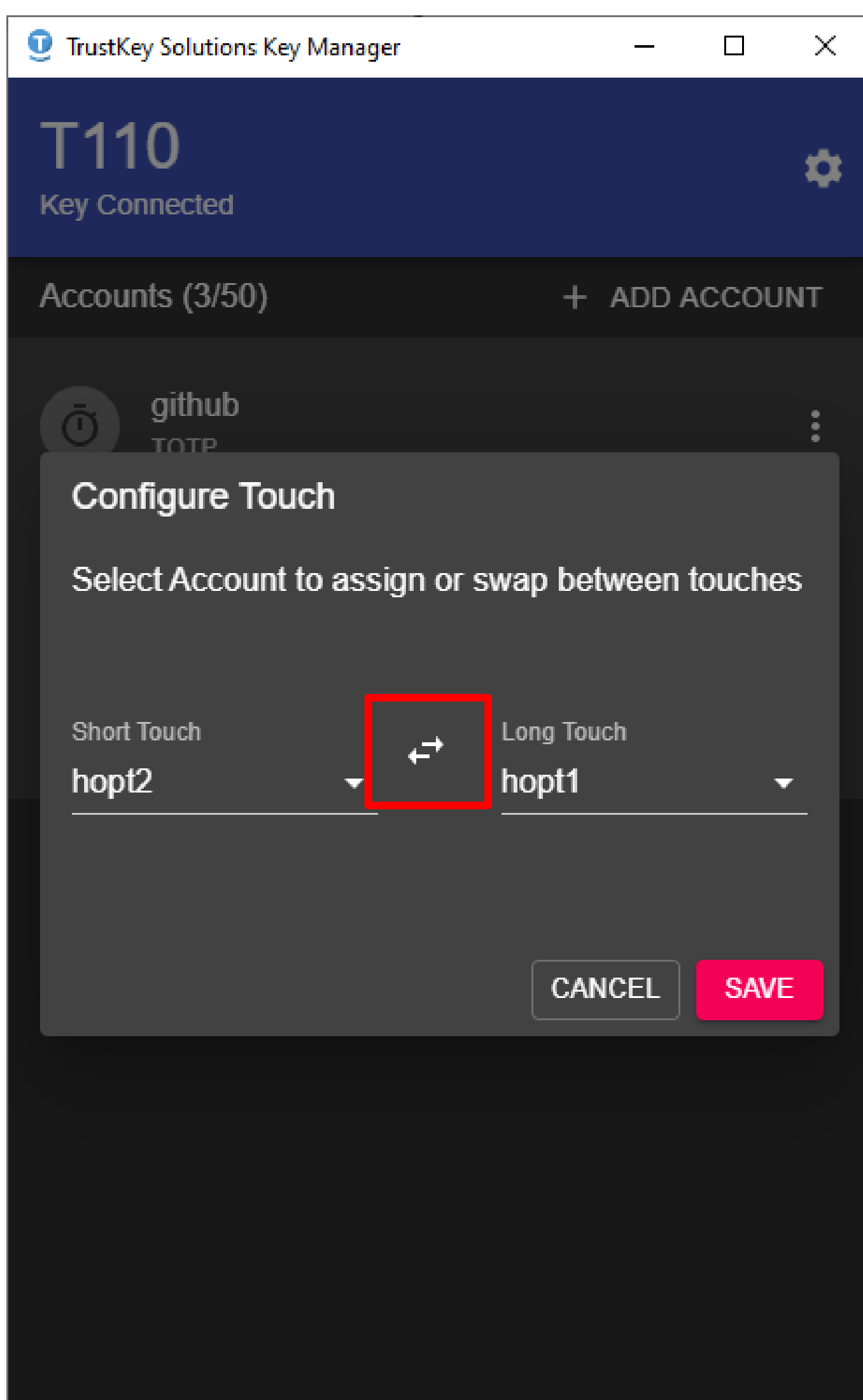
How to Swap HOTP Accounts

1. You can swap HOTP configure slots by selecting Configure Touch on a HOTP account from the account list screen.



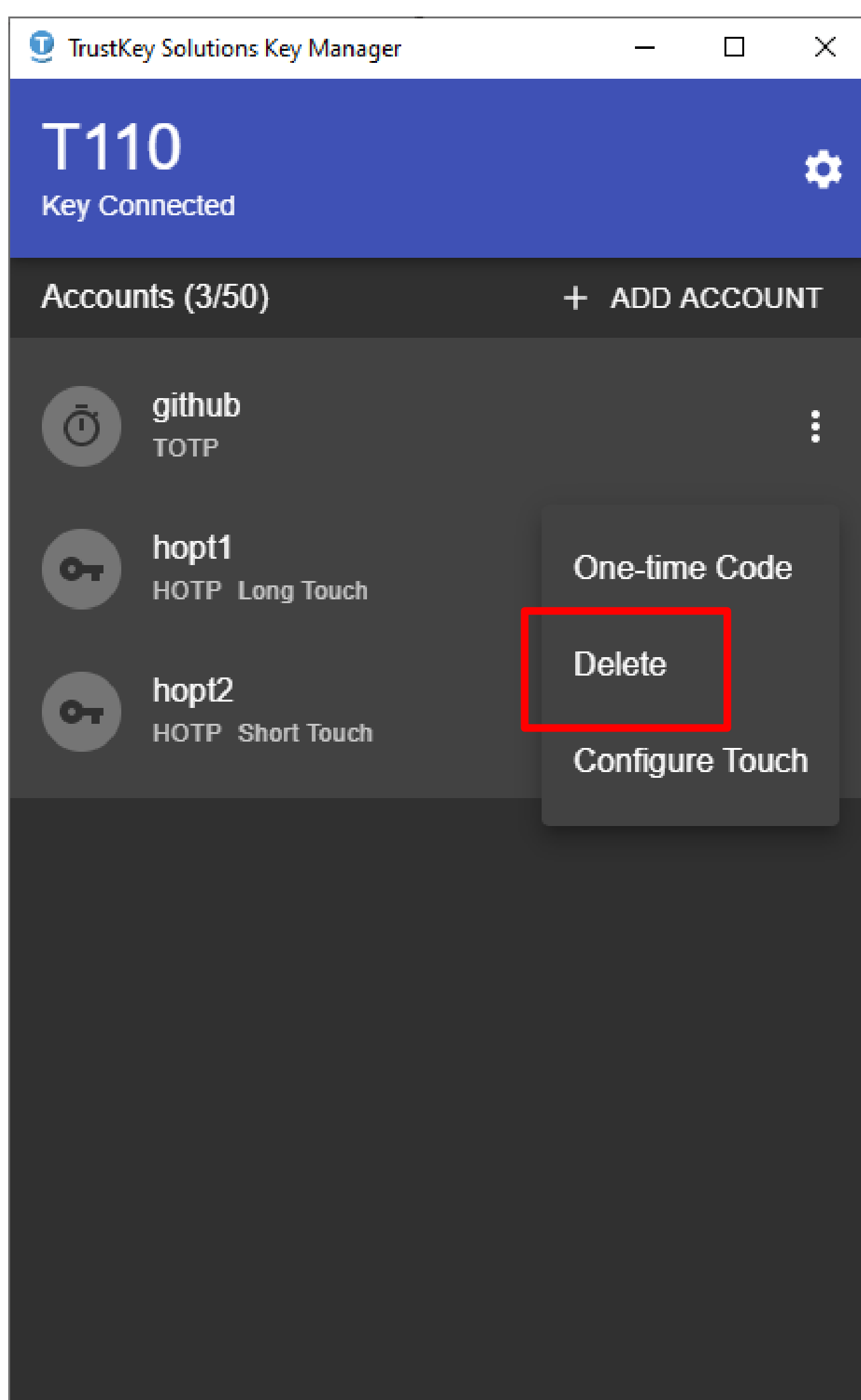
How to Swap HOTP Accounts

2. You can swap HOTP configure accounts by clicking on the SWAP icon. This swaps Short Touch and Long Touch configured accounts.



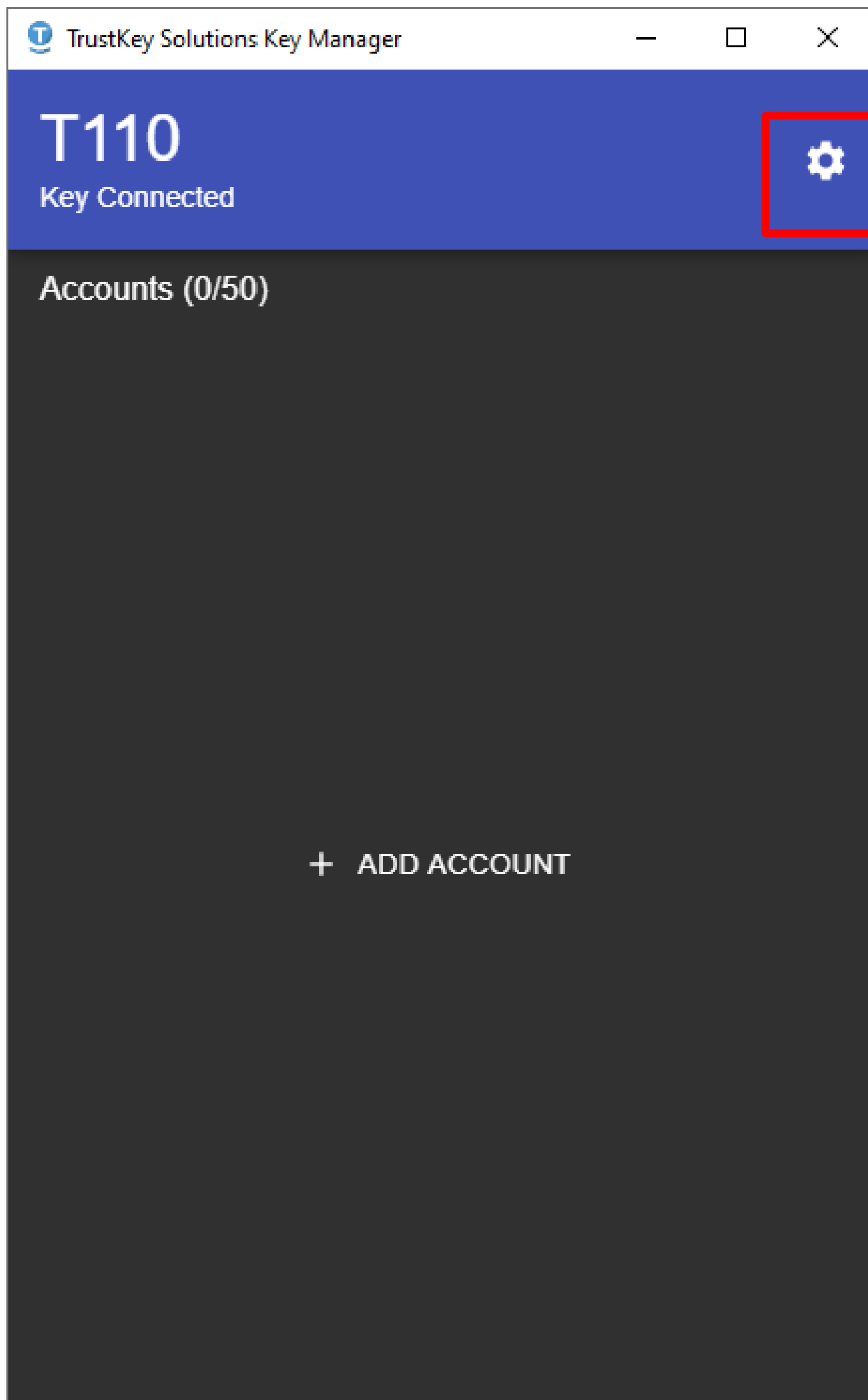
How to Delete HOTP Account

HOTP configured account can be deleted by selecting Delete.



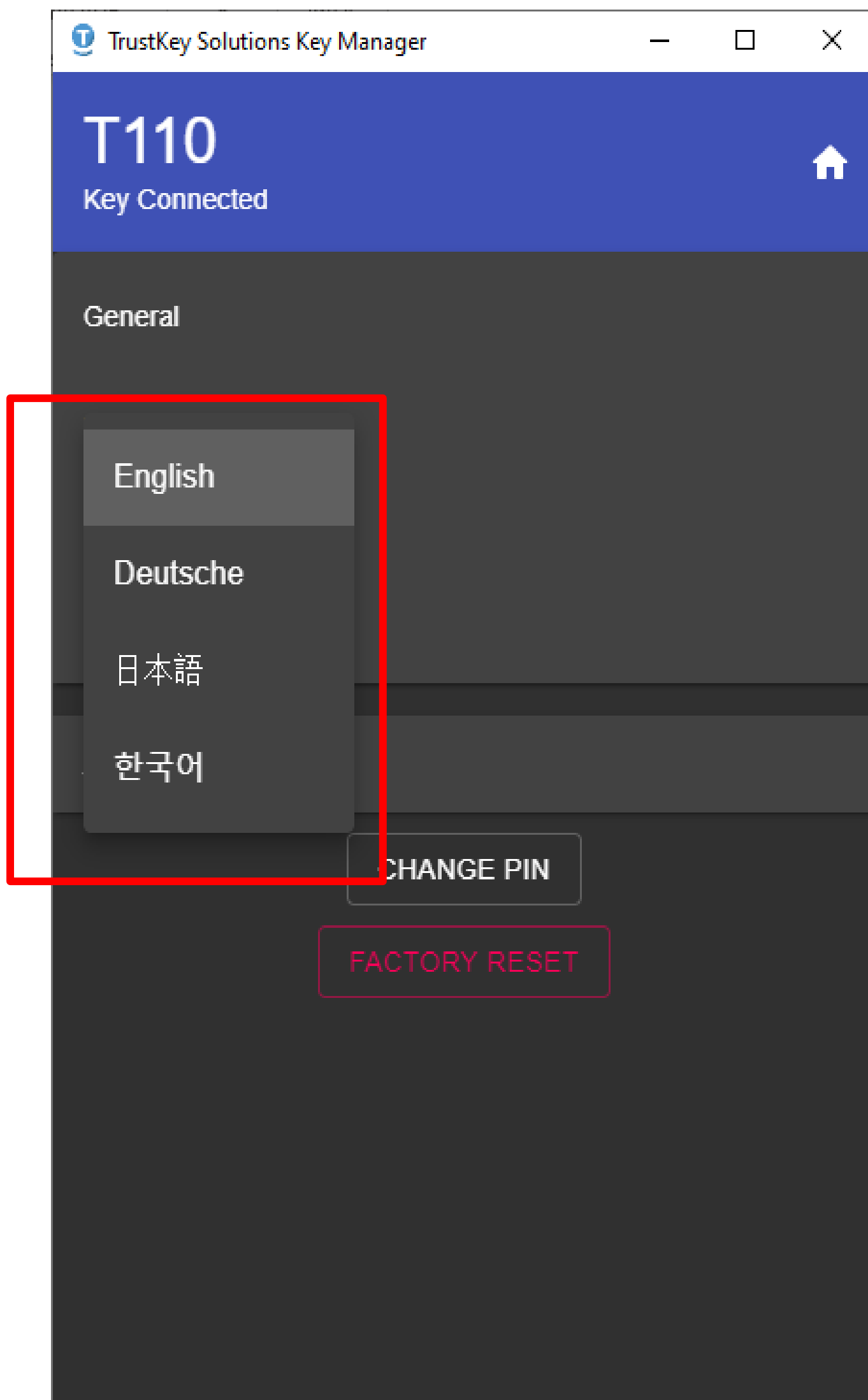
How to Change Language

1. Click on SETTINGS Tab.



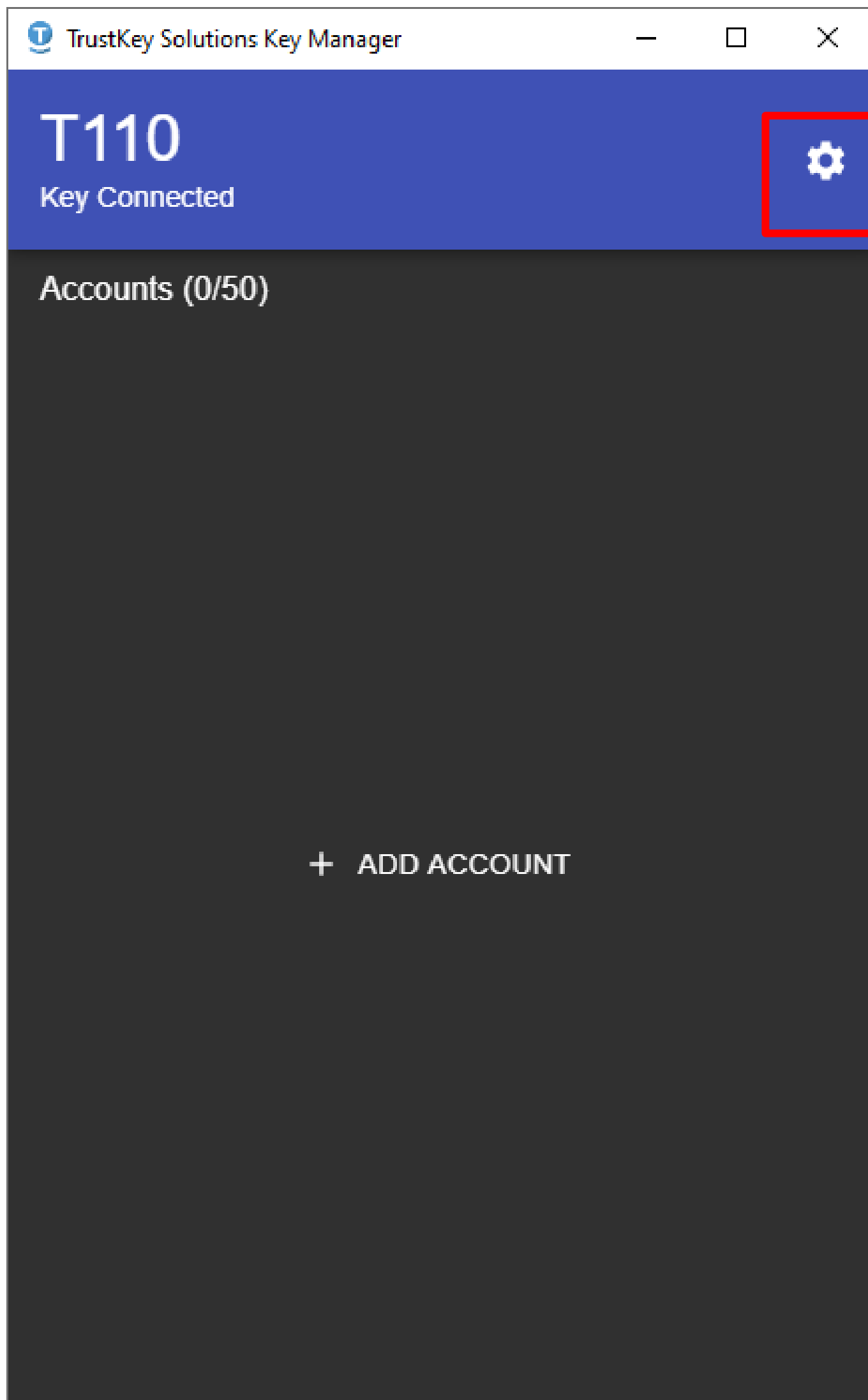
How to Change Language

2. Select the language to be used in 'Language'.



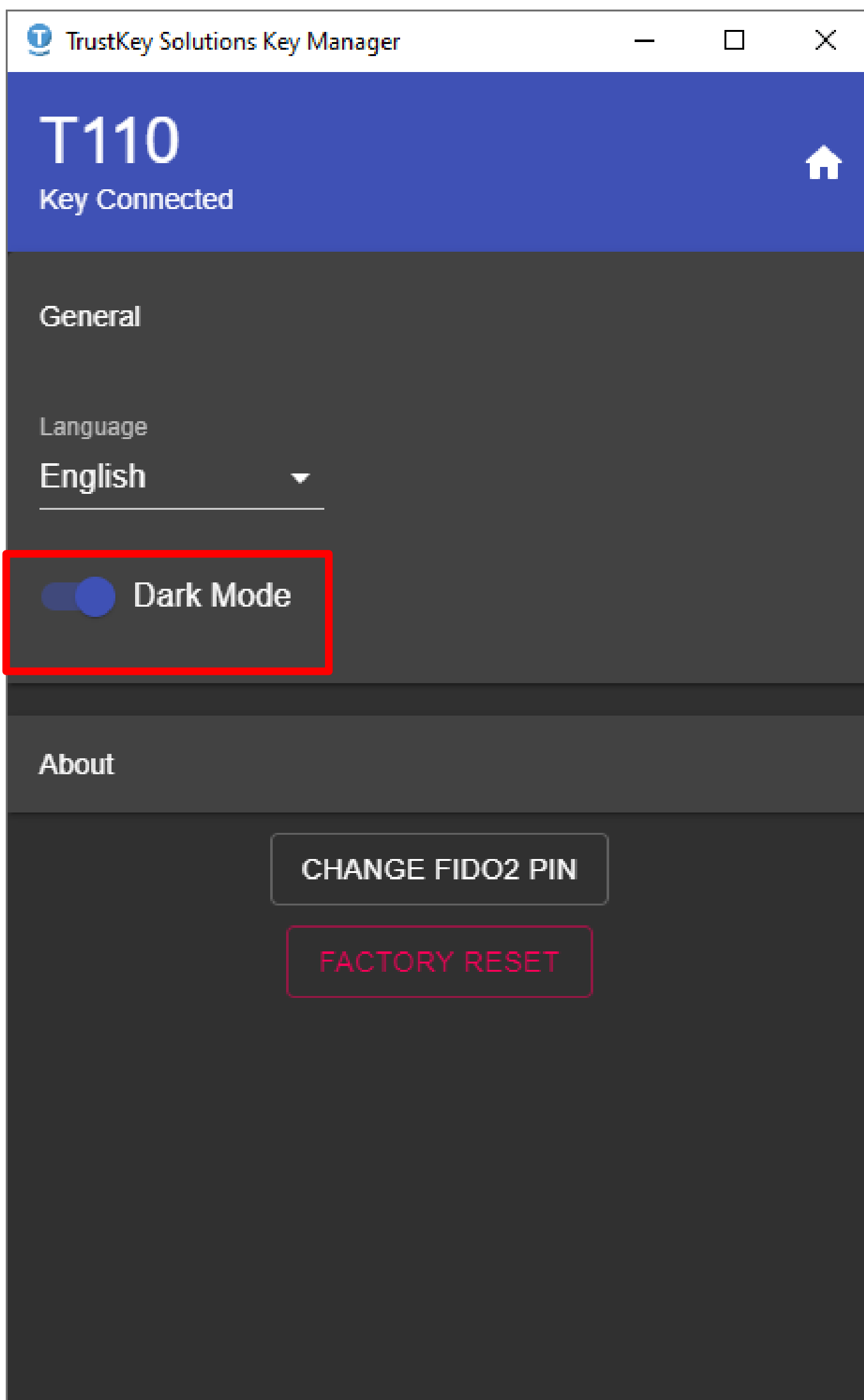
How to Setup Dark Mode

1. Click on SETTINGS Tab.



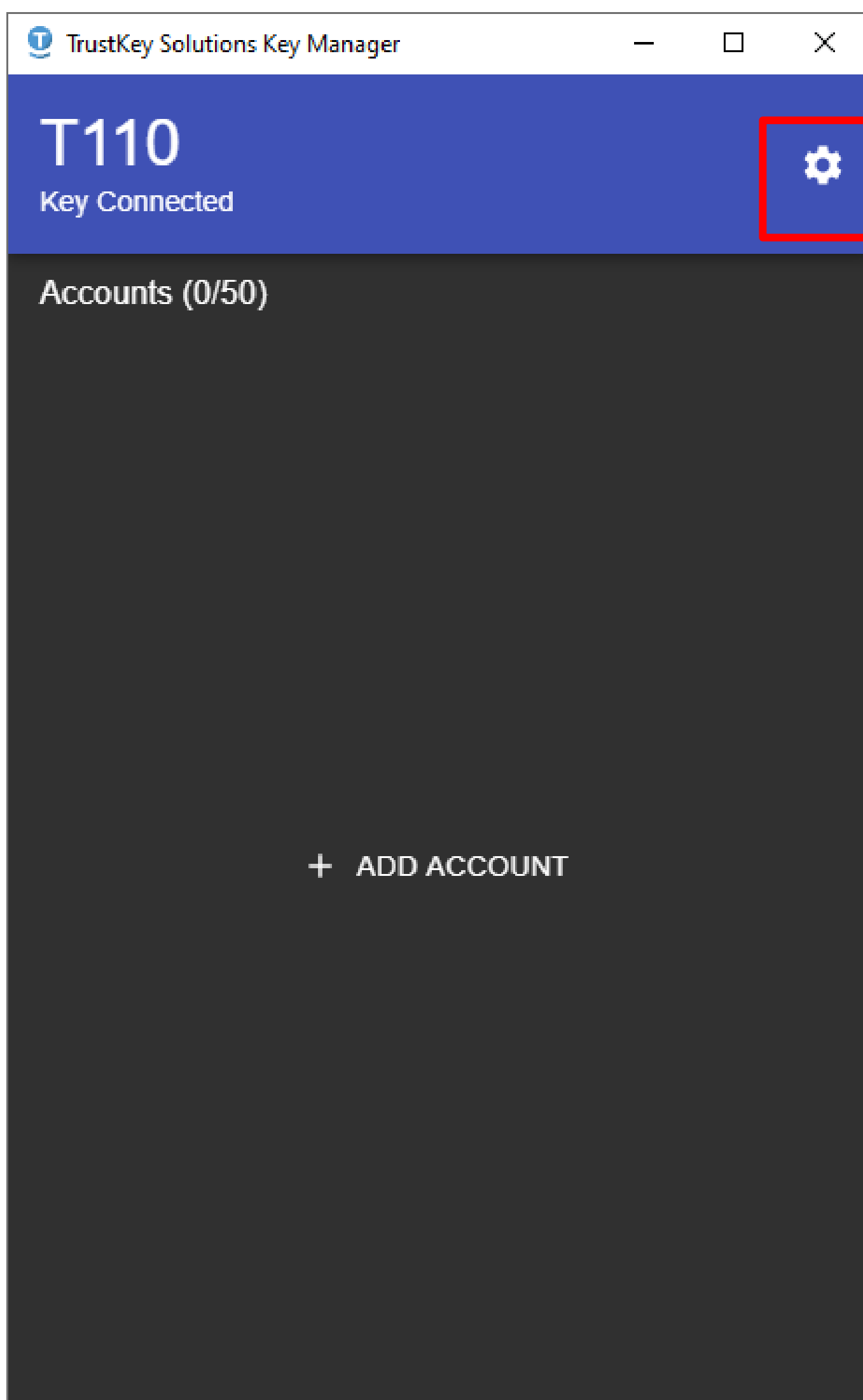
How to Setup Dark Mode

2. Tap the button for Dark Mode to turn it on or off.



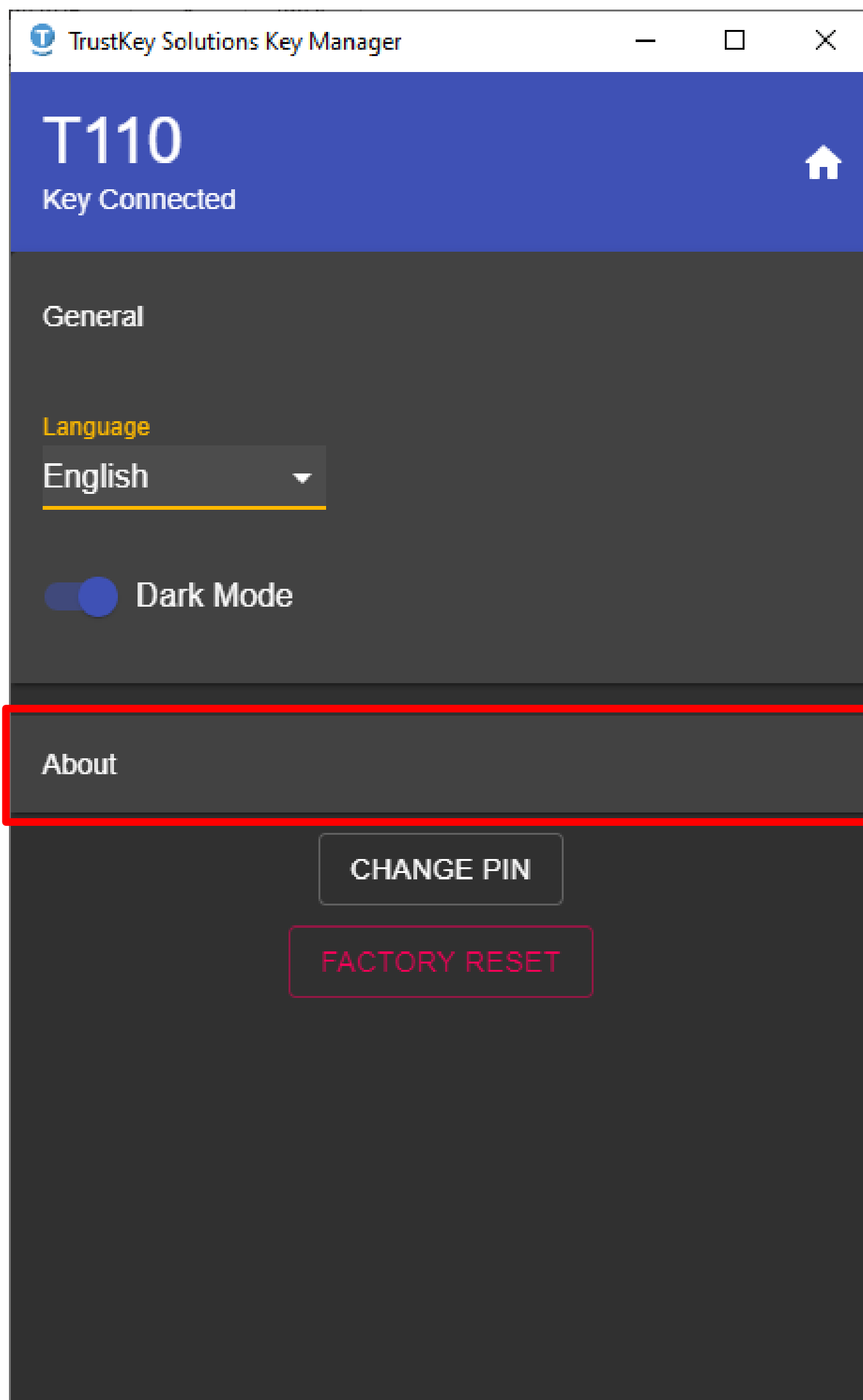
Key Manager™ Version Number

1. Click on SETTINGS Tab.



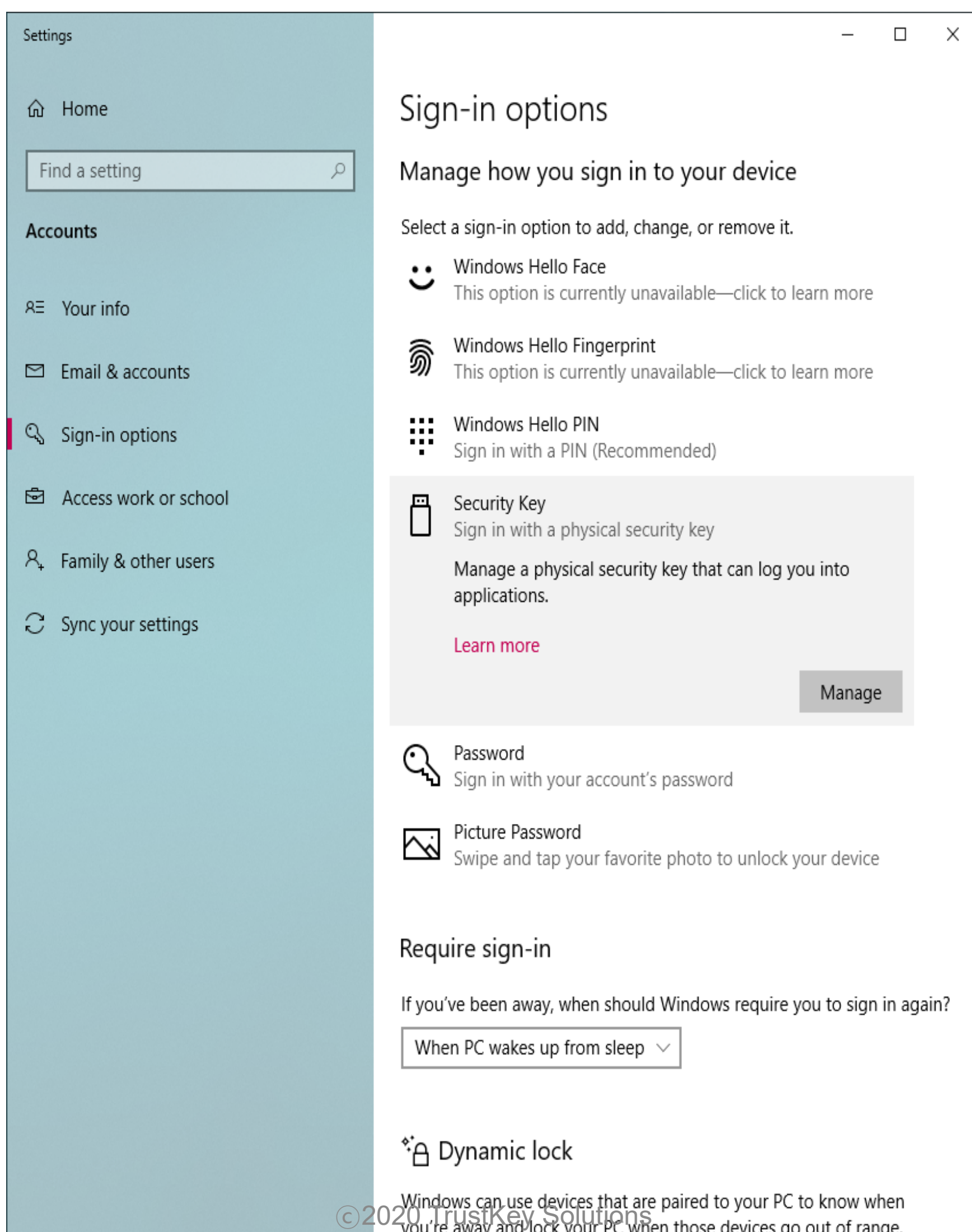
Key Manager™ Version Number

2. Click on About box.



Windows 10 Security Key Manager

TRUSTKEY's security key can be set up from the systems settings panel on computers running the Windows 10 insider preview build 18298 [19H1] or above. In sign-in settings / Security Key, Fingerprints and PIN can be managed (add/delete) and the security key can be reset to factory setting if necessary.



FCC Warning Statements

1. FCC Part 15.19 statements:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. FCC Part 15.105 statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and may radiate radio frequency energy and, if not installed and used in accordance with the instructions, can cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

3. FCC part 15.21 statement:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

■ Supplier's Declaration of Conformity:

47 CFR § 2.1077 Compliance Information

Unique Identifier : T110, T120

Responsible Party – U.S. Contact Information

TrustKey Solutions

2100 Alamo Rd Suite T

Richardson, TX 75080

- +1-204-865-9354