

### TRUSTKEY BioManager

# **User Manual**

Ver 3.3



### Contents

1.	Overview	<u>3</u>
2.	LED Indicators	<u>4</u>
3.	How to Use BioManager™	<u>5</u>
	Install TrustKey BioManager™	<u>5</u>
	How to Enroll Fingerprint	<u>6</u>
	How to Add Additional Fingerprint Information	<u>11</u>
	How to Remove Fingerprints	<u>14</u>
	How to Change PIN	<u>16</u>
	How to Factory Reset	<u>18</u>
	How to Unlock When PIN Code Verification Fails	<u>24</u>
	How to Unlock Fingerprint Recognition Fails	<u>29</u>
	BioManager <sup>TM</sup> Version Number and Product Image $\hfill \hfill \$	<u>31</u>
4.	Windows 10 Security Key Manager	<u>33</u>
5.	FCC Warning Statements	<u>34</u>

## Overview

TRUSTKEY's G-series security key is a FIDO2 certified authenticator designed based on TRUSTKEY's powerful microprocessor MS500 and a fingerprint sensor with a world-leading fingerprint recognition algorithm.

G-series keys support the new FIDO2 standard so that one can enjoy the benefit of fast login with a strong protection against phishing, account takeover and many other online attacks.

The user needs to run TrustKey BioManager™ application to enroll your fingerprints on the key. You can download the application from our website:

https://www.trustkeysolutions.com/support/BioManager/

# **LED Indicators**

The device LED has the following colors : Red, Green, Blue, Light blue, Amber and White.

- Common Mode
  - Device connected Fingerprint recognition successful
    Waiting for fingerprint (blinking)
    Device locked due to fingerprint failure (non-blinking)
    Operation failure (blinking)
    Waiting for finger touch in Factory Reset Mode (blinking)
- FIDO2 Mode
- FIDO2 login ready (blinking)
- FIDO2 login ready using device without registered fingerprint (blinking)
- U2F Mode
- U2F login ready (blinking)



U2F login ready using device without registered fingerprint (blinking)

# Install TrustKey BioManager™

- Make sure that TrustKey BioManager™ application is downloaded on your PC/Mac/Linux. <u>https://www.trustkeysolutions.com/support</u> /BioManager/
- Launch the TrustKey BioManager<sup>™</sup> application. If you see the following screen, plug your G-series security key into the USB port on your PC/Mac/Linux.



 Click the ⊕Add Fingerprint and the enrollment process will start. (Up to 3 fingerprints can be added.)



Factory Reset	Info

2. Create a PIN and then click OK.(PIN code must be at least 4 characters and maximum 64 characters long.)

TrustKey BioManager	- D >	<
	Security Key Connected	•
Set new PIN for	r Trustkey Security Key	
New PIN		
Confirm PIN		



3. When **blue** color LED is blinking, start enrolling your fingerprint following instructions on the screen.





4. Lift and rest your finger on the sensor repeatedly.



5. Continue to lift and rest your finger on the sensor repeatedly until it is completed.



Enrollment Successful			
Do you want to continue Enrollment?			
Continue Done			

#### NOTE :

Click **Continue** button if you want to add another fingerprint. Or click 'Done' button if you want to stop enrolling.

\*When you continue enrolling, no additional PIN code is required.

# How to Add Additional Fingerprint Information

 It is possible to add additional fingerprint(s).
When you click the ⊕Add fingerprint you will be asked to verify your PIN code.



Factory Reset	Change PIN	Info

# How to Add Additional Fingerprint Information

2. Once the PIN is verified, the enrollment process will start. (Total of 3 fingerprints can be enrolled.)

TrustKey BioManager	_		Х
	Security Key Conne	ected (	sh v
		Lingii	
Verify PIN for Tr	ustkey Security	Key	
Current PIN			
	PIN is required		
Cancel		OK	

# How to Add Additional Fingerprint Information

3. When **blue** color LED is blinking, start enrolling your fingerprint following instructions on the screen.





# How to Remove Fingerprints

1. Click the trash bin(面)to remove registered fingerprint.



Fingerprint 3		
Add Fingerprin	t	
Factory Reset	Change PIN	Info

# How to Remove Fingerprints

2. Enter the PIN code to remove the fingerprint data.



# How to Change PIN

1. Click **Change PIN** button to change the PIN code.



# How to Change PIN

2. Enter the current PIN code and then enter the new PIN code and click **OK** button.

TrustKey BioManager	– 🗆 X
	Security Key Connected
Change PIN 1	for TrustKey Security Key
Current PIN	
New PIN	••



1. Click **Factory Reset** button to reset the security key to initial factory settings.



Fingerprint 3		
Add Fingerprint	t	
Factory Reset	Change PIN	Info

#### WARNING : all data and credentials on the key will be lost

2. Click **Proceed** button to start the Factory Reset.



	Factory	Reset
The security key will be reset to factory settings. All data and credentials on this key will be erased.		
	Cancel	Proceed

3. Remove the security key from USB port.



4. Insert the security key into USB port.



WARNING : After re-inserting the security key, make sure to touch the fingerprint sensor within 10 seconds to continue "Factory Reset" process. Otherwise, repeat the whole procedure from the beginning.

21

5. If **blue** color LED begins blinking touch the sensor with any of your fingers for the final confirmation.



6. Factory Reset Successful!



#### WARNING :

If the PIN code verification is failed 8 times in a row, Factory Reset is required to unlock the security key. All stored data and credentials will be lost after the Factory reset.

1. If the PIN code entered doesn't match the below screen will be shown.

TrustKey BioManager	_		×
	Security Key Conne	cted English	
Verify PIN for T	rustkey Security I	Key	
Current PIN			
	PIN is required		
Cancel		OK	

2. If the PIN verification fails three consecutive times, the user should take out and re-insert the key to try again.



3. After the 7<sup>th</sup> PIN verification trial fails, the warning message will be shown as below. If the correct PIN is entered the warning message will be removed.



4. If the PIN is entered incorrectly for the 8<sup>th</sup> time in a row, then the device will be locked completely. Once the device is locked by PIN verification failure it should be factory reset and all stored data will be lost including credentials.





#### Fingerprint 2



# How to Unlock Fingerprint Recognition Fails

#### WARNING

- For security reasons, TRUSTKEY's G-series security key will be completely locked if the registered fingerprint fails 15 times in a row.
- If the "RED" light is turned on the device, please run BioManager™. Make sure all other web applications are closed before running BioManager™.
- When BioManager<sup>™</sup> is running, it will ask for you to enter PIN code to unlock the device.
- After you entered the correct PIN code, your devices is now unlocked successfully.

# How to Unlock Fingerprint Recognition Fails

1. Unlock the device by entering the correct PIN code.

TrustKey BioManager	– 🗆 X
	Security Key Connected English 🔻
Verify PIN for	Trustkey Security Key
Current PIN	
	PIN is required



# BioManager<sup>™</sup> Version Number and Product Image

1. Insert your device into the USB port in your PC/Mac and then click the Info button.



# BioManager<sup>™</sup> Version Number and Product Image

2. If you press **Info** button, then it will show the product image and the BioManager<sup>™</sup> version number.



This is an example image when using G310

# Windows 10 Security Key Manager

TRUSTKEY's security keys can be set up from systems settings panel on computers running on 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 an 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 can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may 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 and 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 : G-series Security Key (eFA310, eFA320) Responsible Party – U.S. Contact Information **TRUSTKEY** Solutions 3101 Park Blvd Palo Alto, CA 94306 +1 408 471 6849