

How to Login to Windows with SecuGen Fingerprint Readers using WBF

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1. Introduction

Starting with Windows 7, Windows provides built-in fingerprint support called the Windows Biometric Framework (WBF). With WBF and a SecuGen reader, you can quickly and easily login to Windows using your fingerprint. Additionally on Windows 8.1, you can securely purchase Windows Store apps and access them using your fingerprint. WBF provides a way to register, delete, and manage all your fingerprints associated with your Windows account, so that you remain in control of your fingerprints at all times.

What you need to get started

This guide Supported SecuGen reader Internet connection

Supported operating systems

Windows 8.1, 8, 7 Windows Server 2012, 2008 Release 2

Supported SecuGen fingerprint readers and sensors

Hamster Pro 20, Hamster IV, Hamster Plus, iD-USB SC, iD-USB SC/PIV, Keyboard Plus, OptiMouse Plus, Sensors: U20, FDU04/SDU04P, SDU03M/P, FDU03FR/FRS



2. Installation

2.1 Install SecuGen WBF Driver

Your PC must be connected to the Internet during installation. When you plug in a supported SecuGen fingerprint reader for the first time, the SecuGen WBF Driver will be automatically downloaded (from the Microsoft Windows Update website) and installed by Windows. If for any reason this does not happen, you can download it manually from SecuGen's website at www.secugen.com/download.



- If you see the message above, click on Install this driver software anyway to proceed with installation. (This message appears while the driver undergoes certification for Windows 8.1. The driver is safe to use as it has already been certified for Windows 7.)
- If you have previously installed other (non-WBF) SecuGen device drivers, you must uninstall those before installing the WBF driver. To uninstall, open the Control Panel and then open the Device Manager. Under Biometric Devices, right-click on the SecuGen device and then click Uninstall, with the option Delete the driver software for this device selected. After the driver has been uninstalled, unplug the fingerprint reader and plug it into the PC again. The WBF driver download and installation should start automatically.



2.2 Install SecuGen FMA (not required for Windows 8.1)

For Windows 8.1 Users:

Fingerprint management software is already built into Windows 8.1, therefore you do not have to install the SecuGen FMA. You can skip the rest of this section and proceed to <u>How to Enroll Fingerprints and Logon to Windows 8.1</u>.

For all other Windows Users:

You will need to install the SecuGen Fingerprint Management Application (FMA), a small piece of software that allows you to register and manage your fingerprints. Click the appropriate link below to download the SecuGen FMA from SecuGen's website.



Save the file, and then double-click on it to install. After successful installation, *SecuGen fingerprint device* will be listed in the Biometric Devices Control Panel.





3. How to Enroll Fingerprints and Login to Windows 7, 8, Windows Server 2008 R2 and 2012

1. On Windows 7, 8, Windows Server 2008 R2 and 2012, the SecuGen Fingerprint Management Application (FMA) is used to enroll and delete fingerprints associated with your Windows account. The FMA is accessed through the Biometric Devices Control Panel. From the **Control Panel**, click on **Hardware and Sound**, and then click on **Biometric Devices**. Click on **Use your fingerprint with Windows** to open the FMA.



If the following window appears, click on **Continue**.





2. In the FMA window, select a finger to enroll by clicking on the white tip of the finger.

SecuGen Fingerprint Management Application	
	Select Finger Select the finger you wish to enroll by clicking on the corresponding finger in the picture shown at the left. A green mark indicates that the finger is already enrolled. To delete an enrolled finger, click on the green mark.

3. Place your selected finger on the reader. The FMA will ask you to release and place your finger again for a total of three scans to ensure proper enrollment.

SecuGen Fingerp	rint Management Application	ו•	
		Place Finger	
🕘 SecuGen Fir	ngerprint Management Application		x
		Place Finger Again Place your finger on the sensor. We recommend you place your finger firmly and evenly in the middle of the sensor. Misplacing, moving, or pressing too hard or too lightly may cause an enrollment error. Abort Close	



4. If enrollment is successful, you can close the FMA window or select another finger to enroll.

SecuGen Fingerprint Management Application	
	Enrollment Success Enrollment was successful. To enroll another finger, select the finger by clicking on the corresponding finger in the picture shown at the left. To delete an enrolled finger, click on the green mark. To update or re-enroll a finger, first delete the finger, and then enroll again. Abort Close

Note: If the tip of the finger is colored green, that finger has been successfully enrolled. To delete an already-enrolled finger, click on the green tip. After deleting, you can re-enroll that finger.

5. If you have closed the FMA, you can return to the FMA by clicking on *Manage your fingerprint data* from the Biometric Devices Control Panel (below).



6. To use your fingerprint to logon to Windows, Biometrics should be turned on. If the SecuGen WBF device driver is properly installed, it will be turned on by default. To change the biometric settings, click on *Change biometric settings* from the Biometric Devices Control Panel (above).



7. Select *Biometrics on* or *Biometrics off* to control fingerprint logon to Windows. To enable fingerprint logon to Windows, be sure to check the box *Allow users to log on to Windows using their fingerprints*. Click **Save** to save the changes.

Search Control Panel			
Change biometric settings			
These settings control biometrics and fingerprint logon for this computer. If you want to delete biometric data and fingerprint logon information for all users of this computer, turn off biometrics.			
Biometrics on			
Allow users to log on to Windows using their fingerprints			
Biometrics off			
Turning off any of these settings will delete saved fingerprint logon information. Turning off biometrics also deletes fingerprint records for all users.			
Save Changes Cancel			

8. When you first attempt to logon to Windows using your fingerprint, Windows will require you to enter your current password to verify your account info before enabling fingerprint logon. After this, you will be able to logon with your fingerprint.





4. How to Enroll Fingerprints and Login to Windows 8.1

1. In Windows 8.1, fingerprints are enrolled and managed through your Accounts settings. To get to your settings, first move your mouse pointer all the way to the upper-right or lower-right corner of the screen until the Charms bar appears, and click on **Settings** at the bottom.





2. At the bottom of the Settings bar, click on **Change PC settings**.



Alternatively, you may use the Search function from the Charms bar and type "PC Settings".





3. From the **PC Settings** screen, select **Accounts** from the menu.



Personalize





View recently used settings



4. From the **Accounts** screen, select **Sign-in options**. There should be multiple options including Fingerprint listed in the middle. Click on **Add** under Fingerprint to add your fingerprint to your account.

Accounts۸	Password
Your account	A strong password helps keep your account more secure Change
Sign-in options	
Other accounts	Picture password Sign in to your PC using a favorite photo Add
	Fingerprint Sign in to your PC by scanning your finger Add
	PIN
	Sign in quickly with a four-digit number Add
	Password policy
Here's Start Move your mouse pointer all the way into the corner and click. Tip: Keep moving your mouse pointer into the corner until it disappears.	Password required when waking this PC from sleep Change



5. For security, Windows will ask for your password before accepting your fingerprint.

Add a fingerprint to this account First, verify your account info.	
myusername	
Þassword.	
	OK Cancel

6. Place your finger on the fingerprint reader. Windows will require you to scan the same finger several times to ensure proper enrollment. Follow the prompts on the screen.

Add a fingerprint to this account	
We need several scans of your fingerprint to set up this op Tap and hold your finger on the fingerprint reader.	tion.
1234	
	Cancel

7. After you have successfully scanned the fingerprints of one finger, click on **Finish** to save this fingerprint to your account.

Add a fingerprint to this account	
You're done! Choose Finish to save this fingerprint to your account.	
	Finish Cancel



8. To add another fingerprint to your account, click on **Add another** under Fingerprint.





9. For security, Windows will ask for your fingerprint to verify your account info before accepting additional fingerprints. You can also choose another way to verify by clicking on **Choose another option**.

Add	another fingerprint to this acc	ount	
First, veri	fy your account info.	Choose another option	
Ø	Fingerprint Scan a registered finger on the fingerprint reader.	myusername	
		Cancel	

10. Repeat steps 6 and 7 to add another fingerprint.

Add another fi	ngerprint to this account	
We need several scans of y Tap and hold your finger o	your fingerprint to set up this option. In the fingerprint reader.	
123	4	
	Ci	ncel

11. If you attempt to add a previously-registered finger, you will get an error message. Windows compares new fingerprints with all your registered fingerprints to avoid duplication.

Add anot	her fingerprint to this account	
We need several Tap and hold you	scans of your fingerprint to set up this option. ur finger on the fingerprint reader.	
That fingerprint i	s already registered for this account. Please use a different finger.	
1 2	3 4	
		Cancel

12. After you have successfully added one or more fingerprints, you can now use any of your registered fingerprints to verify your account info when logging on to Windows or purchasing or accessing apps from the Windows Store. If you did not register all of your fingers, it may be helpful to record or remember which finger(s) you have registered so that you will know which one(s) to use for future authentication.



13. If you wish to remove your fingerprints from your account, you can do this easily by clicking **Remove all** from the Sign-in options screen. **Be careful!** This function will delete all of your registered fingerprints at one time.



5. Note about Privacy of Fingerprints

To protect the privacy of fingerprints, **images of fingerprint are not saved or stored** during enrollment and authentication. When a fingerprint is scanned, the unique features of the fingerprint called minutiae are identified, processed by a mathematical algorithm, and finally stored as a template. A fingerprint image cannot be reproduced from this template because the template does not carry enough data to form a fingerprint image.