# K33 Demo guide with Microsoft services

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## 1. Introduction

This document describes how to use FEITIAN's K33 to demo Microsoft's services via HID, BLE and NFC interfaces.

## 2. Security key management

#### Note: enrollment of fingerprint needs to be done via USB cable.

Users can manage fingerprints, PIN or reset a security key straight from Settings if the platform is Windows 10 Insider Preview Build 18298 (19H1) and above or 1903 and above via the selection of Sign-in options/Security Key tab.

# Note: Reset requires to be done with 10 seconds after powering up, and a touch is needed to prove user presence.

← Settings	- 🗆 X
යි Home	Sign-in options
Find a setting	*Some of these settings are hidden or managed by your organization.
Accounts	Manage how you sign in to your device
07 V	Select a sign-in option to add, change, or remove it.
	<ul> <li>Windows Hello Face</li> <li>This option is currently unavailable—click to learn more</li> </ul>
Email & accounts	Windows Hello Fingerprint
Sign-in options	Windows Hello PIN
Access work or school	This option is currently unavailable—click to learn more
R <sub>+</sub> Other users	Sign in with a physical security key
C Sync your settings	Manage a physical security key that can log you into applications.
	Learn more
	Manage
	Password Sign in with your account's password
	Require sign-in
	If you've been away, when should Windows require you to sign in again? 15 minutes $\checkmark$

Figure 1 Windows 10 Security Key Settings Page

Users can manage fingerprint, PIN or reset a security key by using FEITIAN's BioPass FIDO2 manager on the Microsoft Store if platform is lower than Insider Build 18298 (19H1) or lower than 1903. This guide will explain enrolling a fingerprint on the BioPass FIDO2 Manager.

Before using the Feitian BioPass FIDO2, users are required to initialize and enroll a fingerprint onto the security key using 'BioPass FIDO2 Manager'. The application can be downloaded via Microsoft Store.

#### Enroll your first fingerprint.

1) Launch the BioPass FIDO2 Manager and plug in the FEITIAN BioPass FIDO2. Figure 2, see below, will appear.



Figure 2 BioPass FIDO2 Manager

2) Click "Add Fingerprint." You can choose using fingerprint only or set both pin and fingerprint for a verification method as shown in Figure 3. (Once you choose one option, you cannot change to the other option without resetting the device)

Verification Mode Options		×
Set Your Ve	erification Mode:	
5	PIN and Fingerprint	
<i>\$</i>	Fingerprint Only	

Figure 3 Verification Settings Page

3) If you choose "PIN and Fingerprint," you will then be prompted to set a PIN. Numbers, letters and special symbols are supported.

Note: Setting up a PIN requires user to touch the sensor to prove user presence.

Set PIN			
Set PIN fo	or BioPass Fl	DO2	
•			
		OK	

Figure 4 PIN Setup

4) Add a fingerprint by following the instructions.

Add Fingerprint

Great, touch sensor

Repeatedly lift and rest your finger on the sensor until setup is complete.

Figure 5 Fingerprint Enrollment

5) After a fingerprint has been successfully enrolled, a fingerprint will be listed in the text box.



Figure 6 BioPass FIDO2 Manager with Fingerprint Enrolled

×

6) The BioPass FIDO2 Manager allows you to test your fingerprint, remove your fingerprint and change your pin to enjoy your secure authentication experience.

#### **Test Fingerprint**

This function is for the user to test the fingerprint verification. Note: This testing function will trigger the **block device** procedure mentioned above.

#### **Remove fingerprint**

1) Choose the fingerprint you want to delete. ("Fingerprint 2" as shown in Figure 7)



Figure 7 BioPass FIDO2 Manager with Fingerprint Enrolled

2) If a Pin has been enrolled, you will need to choose a verification option



Figure 8 Verification Options

3) After verification, the fingerprint will be removed.

#### **Change Pin**

Press "Change PIN" in the BioPass FIDO2 manager to change a PIN.

Change PIN		×
Change PIN fo	r BioPass FIDO2	
Old PIN		]
New PIN		]
Confirm PIN		]
	Cancel	ОК

Figure 9 Change PIN

#### **Reset Device**

Note: when you reset your device, all data stored will be deleted including your credentials. This operation need to be done with 10 seconds after the security key is powered up, and a touch is needed to prove user presence.

## 3. HID interface

K33 security key is plugged into your PC via a USB cable.

## 3.1 Microsoft account

#### Requirement: Windows 10 Version 1809 or later and the Microsoft Edge browser

#### Provision a security key to your Microsoft Account

Go to the Microsoft account page and sign in as you normally would.

#### Select *Security > Update*



Figure 10 Microsoft Account Settings Page

#### Choose More security options.

## 

Under Windows Hello and security keys, select <u>Set up a security key.</u>

## Additional security options

Manage how you sign-in to Microsoft

Make sure the list of phone numbers or email you use to sign in to your account is up to date. Turn off sign-in preferences for any phone number or email you don't use often.

Manage sign-in options

Two-step verification

Two-step verification is an advanced security feature that makes it harder for someone to break in to your account with just a stolen password. Learn more about whether this is right for you.

Set up two-step verification

Identity verification apps

A smartphone app is the fastest way to verify your identity. Learn more.

Before you can set up an identity verification app, you need to add another phone number or alternate email address, or verify an existing one.

Set up identity verification app

Windows Hello and security keys

Now you can sign in without a password using Windows Hello or security keys. A security key is a physical device (like a USB security key) that you can use to sign in to your account instead of a password. Learn more about signing in with Windows Hello or a security key.

Set up a security key Set up Windows Hello Manage your sign-in methods

Figure 12 Microsoft Account Security Page

#### Identify what type of key you have (USB or NFC) and select Next.

## Set up your security key

Have your key ready

A









For detailed instructions on how your keys should be connected, please visit your key manufacturer's website.



Figure 13 Security Key Setup

You will be redirected to the setup experience where you will insert or tap your key.

- · · ·	
Windows Security	
Making sure it	's you
Web site login.micro nick@ftsafe.com	osoft.com wants to create a credential for
	ð
Take act	ion on your security key.
	Cancel

Figure 14 Security Key Setup

Create a PIN (or enter an existing PIN if you have already created one), otherwise if you have already enrolled a fingerprint, you will only need to verify the fingerprint.

Windows Security	×
Making sure it's you	
Web site login.microsoft.com want nick@ftsafe.com	s to create a credential for
Please enter your	security key PIN.
PIN PIN	
Change PIN	
Change PIN OK	Cancel

Figure 15 Security Key Setup

Take the follow-up action by touching either the button or gold disk if your key has one (or read the instruction manual to figure out what else it might be).

Name your security key so that you can distinguish it from other keys.

Set up your se	ecurity key
Name your new security	y key
Hint: Name it so you'll know la	ater which key this one is.
FEITIAN Security key	×
Next	

Figure 16 Security Key Setup

Sign out and open Microsoft Edge, select Use Windows Hello or security key instead, and sign in by inserting or tapping your key.

## 3.2 Windows Hello for business (Azure Active Directory)

#### Set up shared Windows (Joined AAD)

This chapter introduces how we FEITIAN setup the joined PC environment and provisioning a security key to your account.

#### Requirement: Windows RS5 or above.

Go to setting's page and click <u>'Access work or school'</u> selection in <u>'Account'</u>. Click <u>'Connect</u>' button.

$\leftarrow$ Settings		– 🗆 X
命 Home	Access work or school	
Find a setting	Get access to resources like email, apps, and the network. Connecting	Connect with work and school
,	means your work or school might control some things on this device,	Select Manage or disconnect from
Accounts	such as which settings you can change. For specific info about this, ask them.	work or school, and then select Connect to access resources on your
		work or school network. The Connect
RΞ Your info	Connect	option will also let you set up a work or school account if you don't have
	Ŧ	one already.
Email & accounts		Get more tips
Q Sign-in options		
		Related settings
Access work or school		Add or remove a provisioning package
		Export your management log files
🐥 Family & other users		Export your management log mes
C Supervour settings		Set up an account for taking tests
Sync your settings		Enroll only in device management
		Usus a sussetion?
		Have a question?

On Pup-up window, click *Join this device to Azure Active Directory* and click *Next*.

Microsoft account	×
Set up a work or school account	
You'll get access to resources like email, apps, and the network. Connecting means your work or school might control some things on this device, such as which settings you can change. For specific info about this, ask them.	
Email address	
Alternate actions:	
These actions will set up the device as your organization's and give your organization full control over this device.	
Join this device to Azure Active Directory	
Join this device to a local Active Directory domain	
Next	]

Enter your account and passwords, click 'Sign in'.

Microsoft account	×
Let's get you signed in	
someone@example.com	
Which account should I use?	
Sign in with the username and password you use with Office 365 or other business services from Microsoft.	
Privacy statement	
Next	

Microsoft account	×	
Enter password		
Enter the password for haichuan@yifanftsafe.onmicrosoft.com		
Password		
Forgot my password		
Privacy statement		
Sign in Back		

Click <u>**'Join'**</u>.

Make sure this is yo	ur organization
If you continue, system policies mig Is this the right organization?	ht be turned on or other changes might be made to your PC.
Connecting to: yifanftsafe.onmicros User name: haichuan@yifanftsafe.o User type: Administrator	oft.com nmicrosoft.com
	Cancel Join

Click <u>'Done'</u> once you finish the procedures.



Return the selection of <u>'Access work or school'</u> and click <u>'Add or remove a provisioning</u> <u>package'</u>.



Copy that \*.ppkg file to a USB flash disk and click 'Add a package'.

← Settings		-	×
Provisioning packages help set up your device for work or school.	Have a question? Get help		

Windows will automatically detect the package file and click 'Add'.

← Settings				-	×
Choose a method			Have a question?		
Add from					
Removable Media	$\sim$				
Select a package					
Eroject Looka					
<u>R</u>					
	Add				

Once finish, click 'Yes, add it'.



#### Register a security key to your Azure AD account.

- Browse to <u>https://myprofile.microsoft.com</u> and sign in if not already using Edge browser.
- Click <u>Security Info</u>
  - a. If the user already has at least one Azure Multi-Factor Authentication method registered, they can immediately register a FIDO2 security key.
  - b. If they don't have at least one Azure Multi-Factor Authentication method registered, they must add one.



• Add a FIDO2 Security key by clicking <u>Add</u> method and choosing <u>Security key.</u>

## Security info

These are the methods you use to sign into your account or reset your password. Default sign-in method: Microsoft Authenticator - notification Change + Add method S Phone +86 13269607610 Change Delete Microsoft Authenticator Delete Nick Add a method Which method would you like to add? Authenticator app Authenticator app Alternate phone Email Security key

- After clicking <u>Add</u>. Choose USB device or NFC device.
- Insert your key and choose <u>Next</u>.
- A box will appear and ask you to create/enter a PIN for your security key, then perform the required gesture for your key either biometric or touch. During this operation, you may be required to touch the key twice depending whether you create or enter a PIN.

Windows Security	×
Making sure it's you	
Set up your security key to sign i nick@yifanftsafe.onmicrosoft.cor	in to login.microsoft.com as m.
This request comes from Microso Corporation.	oftEdge, published by Microsoft
You'll need to cre securi	eate a PIN for this ty key.
8 New PIN	
Confirm PIN	
ОК	Cancel

• You will be returned to the combined registration experience and asked to provide a meaningful name for your token so you can identify which one if you have multiple. Click *Next*.

Name your security key. This will he	lp distinguish it fro	om other k
FEITIAN BioPass Key		

• Click <u>*Done*</u> to complete the process.



You're all set!

You can use your security key instead of a username and password the next time you sign in.

Be sure to follow your security key manufacturer's guidance to perform any additional setup tasks such as registering your fingerprint.



Once all above procedures are done, you can experience logging in your shared PC password-less.

## 4. BLE interface

Security key talks to PC via BLE interface.

#### Pair K33 security key to PC

Go to *Windows Settings/Devices/Bluetooth and other device* and then click <u>'Add</u> *Bluetooth or other device* after you enable the Bluetooth for both PC and K33.

← Settings			-	٥	×
வ் Home	Bluetooth & other devices				
Find a setting	+ Add Bluetooth or other device	Related settings Devices and printers			
Devices		Sound settings			
Bluetooth & other devices	Bluetooth On On	Display settings			
Printers & scanners	Now discoverable as "DESKTOP-9TIFT89"	More Bluetooth optic	ons		
LD Finiters & scamers		Send or receive files v	via Blueto	ooth	
() Mouse	Show notifications to connect using Swift Pair				
Touchpad	When selected, you can connect to supported Bluetooth devices quickly	Have a question?			
	when they're close by and in pairing mode.	Get help			
um Typing					
🖉 Pen & Windows Ink		Make Windows bette	r		
AutoPlay	Download over metered connections	one as recabler			
	To help prevent extra charges, keep this off so device software (drivers, info, and apps) for new devices won't download while you're on				
USB USB	metered Internet connections.				
					8
		Activate Windows			
		Go to Settings to activat	e Windo	ews.	

Enable the Bluetooth of K33:

long-press the button of K33 on the right side for about 5 seconds until Bluetooth LED blinks rapidly.

The BLE device paring name should be:

6 digits of characters or FT\_6 digits of characters.



Follow the pop-up instruction windows for pairing procedures as below:

Add a device	
Add a device	
Choose the kind of device you want to add.	
Bluetooth Mice, keyboards, pens, or audio and other kinds of Bluetooth devices	
Wireless display or dock Wireless monitors, TVs, or PCs that use Miracast, or wireless docks	
+ Everything else Xbox controllers with Wireless Adapter, DLNA, and more	
Cancel	

Add a device	×
Add a device	
Make sure your device is turned on and discoverable. Select a device below to connect.	
L-C821E-905751	
J. Unknown device	
ניין Unknown device	
ជ្រា Unknown device	
<b></b>	
Communications device	
Cancel	



Once it is done, you can now demo K33 with Microsoft services contactless using Bluetooth.

## 4.1 Microsoft account

## Refer chapter 3.1

Enable the K33's Bluetooth interface by long pressing the button for about 5 seconds before *setting up your security key*.

Click <u>Next</u> directly.

Set up your security key
Have your key ready
USB device NFC device
To use a USB security key, when prompted, plug it into your USB port. Then touch the gold circle or button if your key has one when prompted for follow up action.
For detailed instructions on how your keys should be connected, please visit your key manufacturer's website.
Cancel

The pop-up window requires you to verify your fingerprint if you have enrolled one. Otherwise you will need to input the PIN.

Windows Security	×
Making sure it's you	
Set up your security key to sign in to login.microsoft.com as nick@ftsafe.com.	
This request comes from MicrosoftEdge, published by Microsoft Corporation.	
0	
Take action on your Bluetooth security key.	
Cancel	

Similarly, before you sign in using the security key via Bluetooth, you will need to activate the Bluetooth of the K33 by long pressing button for 5 seconds.

## 4.2 Windows Hello for business (Azure Active Directory)

### Refer to chapter 3.2.

<u>Please note that Bluetooth of the K33 will need to be activated before the procedures</u> of provisioning security key and Windows signing in.

## 5. NFC interface

Communication via NFC requires PC support, otherwise, an NFC reader will be needed.

To demo Microsoft account and Windows Hello for business (Azure Active Directory) services via NFC, please refer to the authentication process via HID. No additional steps are required.