



OFIS

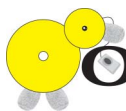
Online Fingerprint Identification System

OFIS SDK 1.0 USER MANUAL



OFIS SDK 1.0 USER MANUAL

ENGLISH

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FINGERTEC WORLDWIDE LTD
2006



1 OFIS SDK INTRODUCTION

The FingerTec® Online Fingerprint Identification System (OFIS) User Manual describes the step-by-step installation process and the flow of the Ofis registration and verification.

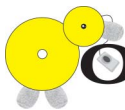
Support Resources

In addition to this guide, the following resources are provided for additional support:

- The Ofis SDK 1.0 User Manual is provided in PDF file on the product CD. This manual is intended for users that install the Ofis client for fingerprint registration verification.
- The FingerTec® Dealer Resource Center web site (<http://ofis.fingertec.com>) provides an online support for FingerTec® dealers worldwide.
- E-mail support is available at ofis@fingertec.com.

Your Feedback Requested

The information in this guide has been thoroughly reviewed and tested. If you find errors or have suggestions for future publications, contact FingerTec® at ofis@fingertec.com



2 INSTALLATION PROCESS

To start using Ofis, end user is required to obtain the Ofis Client Installation CD from your administrator or system integrator and to perform two installations:

1. FingerTec® Ofis Scanner Installation

- Run the CD provided in your computer. The FingerTec® Ofis Scanner driver is located in the FingerTec_Ofis_Scanner Folder.
- Run the FingerTec® Ofis Scanner Software 1.0 setup.exe file in the folder FingerTec_Ofis_Scanner Folder. The installation process will begin. You may follow the installation steps to complete the FingerTec® Ofis Scanner installation.
- Restart your computer for the FingerTec® Ofis Scanner to be activated.

2. Ofis Client Installation

- Run the Ofis Client Installation CD. Locate a file named Ofis Client Setup.exe at the root directory of the CD-ROM.
- Run the Ofis Client Setup.exe, the installation process will begin automatically. Follow the installation steps until the installation is complete.



3 PLUGGING FINGERTEC® OFIS SCANNER TO A COMPUTER

Plug the FingerTec® Ofis Scanner into the USB port of your computer. The USB port is normally located at the back of your CPU. The location of the USB port may vary depending on type of computer.



Figure 1: The FingerTec® Ofis Scanner with USB interface.

The USB port at the back of a CPU

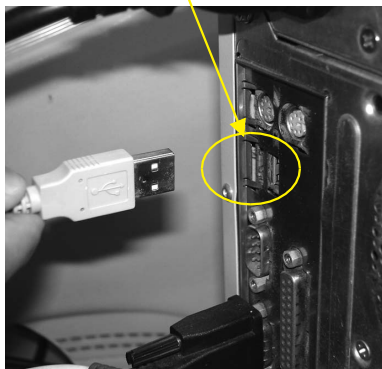


Figure 2:
Plug the USB interface into the USB
port at the back of your computer.

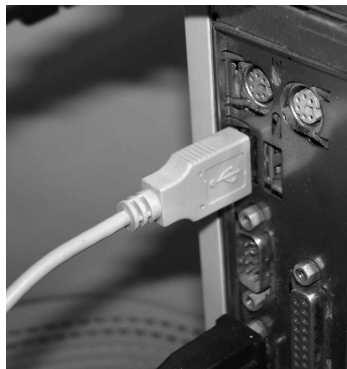
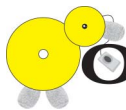


Figure 3:
Successful plugging of the FingerTec®
Ofis Scanner at a computer.



4 USING FINGERTEC® OFIS

Please connect the FingerTec® Ofis Scanner to your computer in order to start using the FingerTec® Online Fingerprint Identification System.

There are two processes required when using Ofis.

- ① **The registration process** is to capture the end user fingerprint and generate a fingerprint template to be stored in the database.
- ② **The verification process** is to verify the fingerprint template from one user with the fingerprint template from the database.

The followings are the screenshots to illustrate the two processes:

Fingerprint Registration Process

During the process of registration, the Ofis interface will popup requiring user to select a finger to be enrolled into the system as displayed in Figure 4. Select a finger that you wish to enroll.

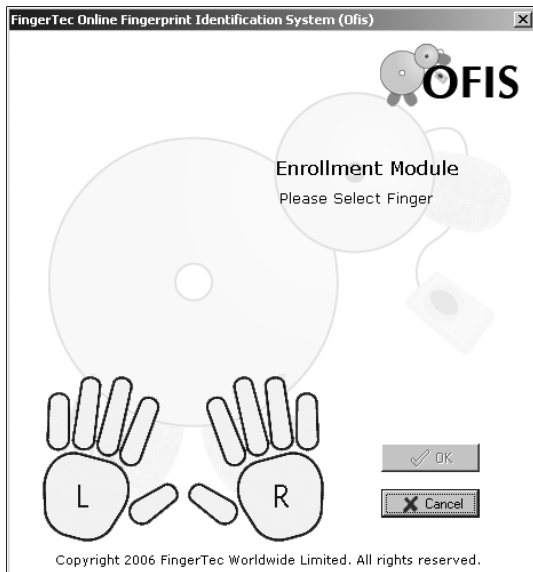


Figure 4

Place the selected finger repeatedly at the FingerTec® Ofis Scanner for 4 times to capture your fingerprint template. When the color bar is filled, your enrollment is complete.

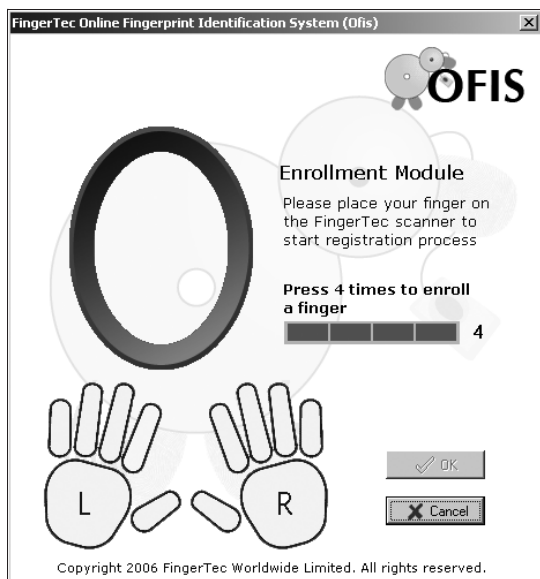
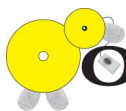


Figure 5



During the registration process, the finger must be placed correctly on the sensor. Failure to do so will prompt the following error message as displayed in Figure 6. You need to place your finger on the scanner again to recapture the fingerprint template.

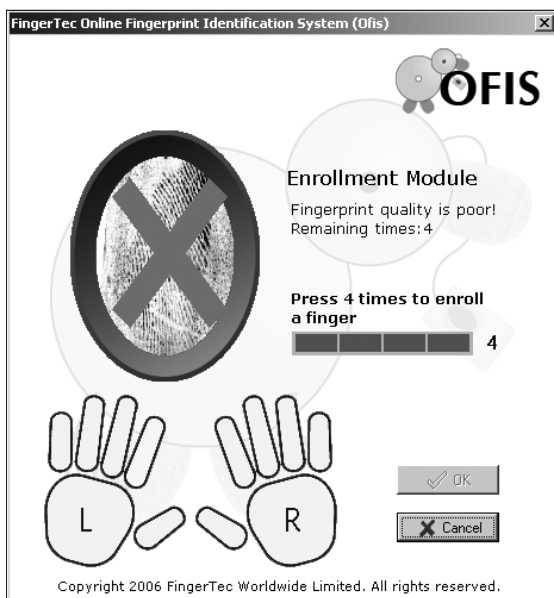
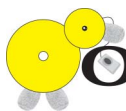


Figure 6

When the registration process is successful, the system will prompt "Registration is successful" message as shown in Figure 7. Click OK to close the Ofis window.



Figure 7



Fingerprint Verification Process

During the process of verification, the Ofis interface will popup requiring user to place the fingerprint at the FingerTec® Ofis Scanner.

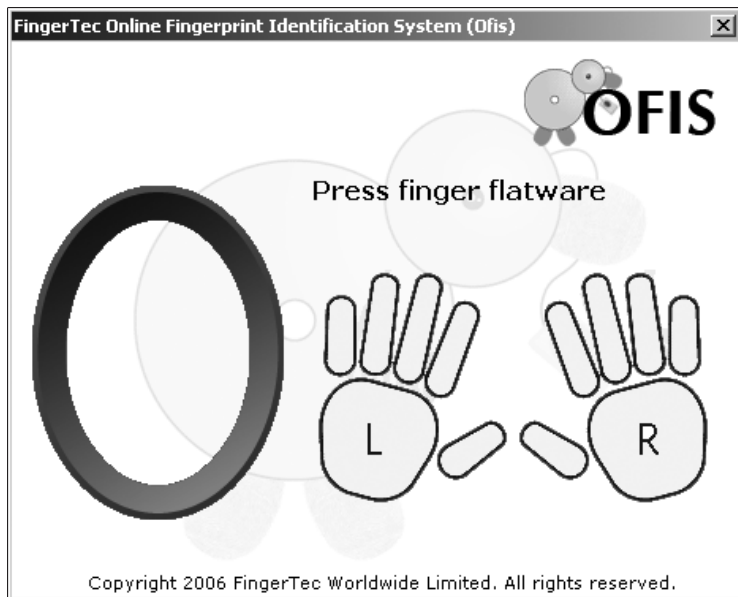
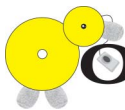


Figure 8

When the sensor has successfully captured your fingerprint template, it will display "Successful in receiving fingerprint template" and the windows will close automatically.



Figure 9

**5****RECOGNITION PERFORMANCE AND
READER USAGE OF FINGERPRINT**

This section provides reader usage and maintenance guidelines to maximization fingerprint enrollment and verification performance. It is crucial to achieve optimal fingerprint recognition performance with proper use of the FingerTec® Ofis Scanner during fingerprint enrollment and verification, as well as a well-maintained reader.

It also describes the proper methodology to use the reader to register and verified fingerprints. Then followed by the reader maintenance instructions, provided in "Clean the Reader".

Appropriate Handling of Fingerprint Reader

Place your finger flat on the reader when enrolling and verifying fingerprints to reduce the False Rejection Rate (FRR). During both processes, you must place the finger's midpoint not the tip or the side-in the center of the reader's fingerprint sensor in order to maximize the area of the finger that touches the reader window.



Pressure is applied evenly. Pressing either too hard or light will produce an unusable and faint scan. Do not "roll" your finger. To complete the fingerprint scanning, hold your finger on the sensor until the reader light is blinking. This may take longer time if the skin is dry. When the light blinks and fingerprint is captured,, lift your finger. If the reader is capturing your fingerprint scan as indicated by the reader blink, but FingerTec® software rejects it consistently, you may need to re-register that finger by first delete it and then register it.

Clean the Reader

The condition of the reader sensor affects enormously on the ability of the reader to achieve a good quality scan of a fingerprint. It depends on the amount of user, the reader sensor may need to be cleaned frequently. Apply the glutinous side of a piece of adhesive cellophane tape on the sensor and peel it away.



Under frequent usage, the sensor coating may turn dull caused by the sodium in perspiration. In this case, gently wipe the window with a fabric (not paper) dampened with a mild ammonia-based glass cleaner.

Reader Maintenance Warnings

There are several things that shouldn't be done when cleaning or using the reader:

- Do not shower the glass cleaner directly on the reader sensor.
- Do not apply alcohol-based cleaner.
- Do not submerge the reader in liquid.
- Do not rub the window with rough material, including paper.
- Do not poke the sensor coating with fingernail or any other sharp objects, such as a pen.

The fingerprint reader is meant for indoor home or office use only.

OFIS, for a truly secured office