

# OFIS 2.0

Online Fingerprint Identification System

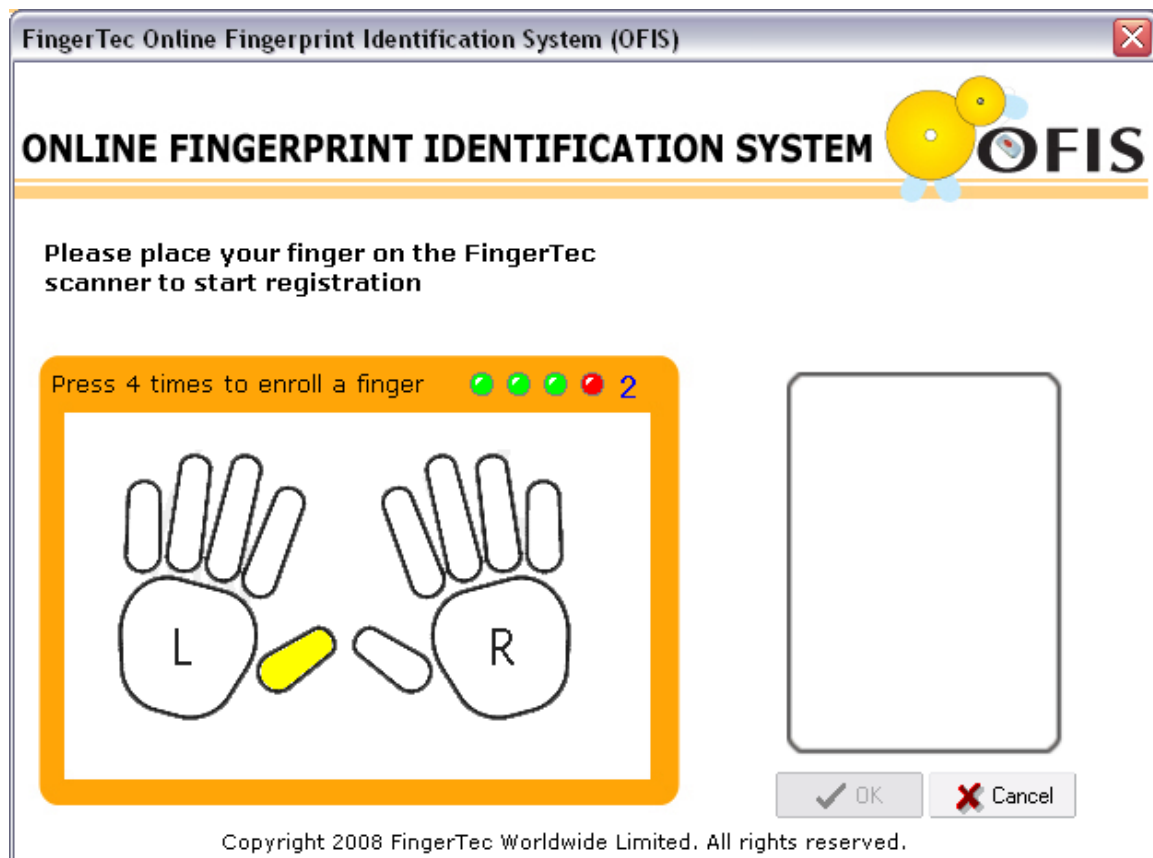
## Introduction

The OFIS 2.0 is officially released. It has extended its features and provides the following additional functions:

1. FingerTec OFIS Scanner Initialization and threshold configuration.
2. Export the Fingerprint Template into JPG & BMP format
3. Import the Fingerprint Image in JPG & BMP to Fingerprint template.
4. Return the Finger Index once the registration process is completed.
5. Fingerprint template's encrypt and decrypt function. It is using blowfish algorithm.
6. Support multiple fingers enrollment at one time.
7. Support the New FingerTec OFIS Scanner.

## New FingerTec OFIS Client Interface

### 1) FingerTec OFIS Client Registration Windows



## 2) FingerTec OFIS Client Verification Windows



### **Upgrade from earlier version to version 2.0**

For customer or end-user who are using earlier version of FingerTec OFIS Client, you can go to "Control Panel -> Add/Remove Program" to uninstall the earlier version and install the latest version. It is given free to all FingerTec OFIS customer.

### **Function List (Added)**

#### **Ofis.InitSensor() As Integer**

To initialize the FingerTec OFIS scanner and check its condition. Followings are the return value and the description:

- 0 = FingerTec OFIS scanner installed successfully
- 1 = FingerTec OFIS scanner scanner not yet install
- 2 = FingerTec OFIS scanner is not connected to the computer.

**Ofis.SaveFingerTemplateAsJPG(string FileName) as Boolean**

Functions to capture the fingerprint image in JPG format. You need to invoke Register() or Verify() function to capture fingerprint image before can save into JPG format. Return true if succeeded and false if failed.

**Ofis.SaveFingerTemplateAsBmp(string FileName) as Boolean**

Functions to capture the fingerprint image in BMP format. You need to invoke Register() or Verify() function to capture fingerprint image before can save into BMP format. Return true if succeeded and false if failed.

**Ofis.AddImageFile(string FileName, integer DPI) as Boolean**

Functions to import fingerprint image and regenerate the fingerprint template for verification. The FileName can be either BMP or JPG. The DPI will be 500 if it is save using FingerTec OFIS Scanner. If unsure, please put 500 as default.

**Ofis.Encrypt(string fingerprint\_template, string key) As String**

Function to encrypt the fingerprint template generated. It is to prevent fingerprint template from being illegally copied. The fingerprint\_template is the template generate by ofis function. The key is the value to encrypt the fingerprint template.

**Ofis.Decrypt(string fingerprint\_template,string key) As String**

Function to decrypt the fingerprint template. Please do use the same key when you are doing the encryption. The fingerprint\_template is the encrypted fingerprint template. The key is the value used to do the encryption.

**Ofis.GetRegFingerTemplate(integer FingerIndex) as String**

Function to get the individual registered fingerprint template. You will need to invoke the register() function before using the function call. For FingerIndex, please refer to the diagram below. FingerIndex ranges from 1-10. It will return the fingerprint template in string format if it is registered successful and NULL if nothing is registered.

**Attribute List (Added)****Ofis.gettemplatestring as String**

Attribute return after function AddImageFile() is invoked. It is the fingerprint template for verification process.

**Ofis.fingerindex as Integer (1-10)**

Attribute return after function register() is invoked. Please see the illustration for better understanding.

**Ofis.checkfinger as String**

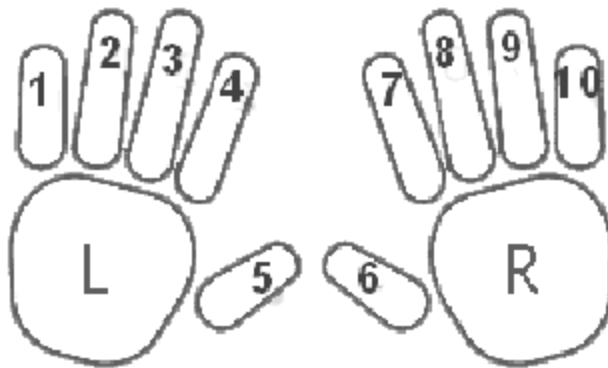
This attribute is to set if a finger is enrolled. 0 = no enrolled, 1 = enrolled. If left thumb is enrolled, the value will be 1000000000 or if right thumb is enrolled, the

value will be 0000010000. Please assign the attribute before calling the function register().

In addition, you can check the finger enrolled after the register() is invoked using the above method. If the value is "0000000000", it means no finger has been registered.

#### **Ofis.onetoonethreshold as Integer**

This attribute is to set the threshold for the fingerprint verification. Default value is 10. The higher the value, the greater the chance people will have trouble being correctly verified. The range starts from 1-100.



#### **List of sample code provided**

With the release of OFIS Client 2.0, we provide sample source code in a few programming languages such as Visual Studio .NET, Visual C++, Visual Basic, Borland Delphi and Javascript. It serves as a reference guide for the software developer when implementing OFIS to their application.