The use guide of WhoAreYou fingerprint application SDK

1. Resume

The SDK of WhoAreYou fingerprint application is divided into the driver part and SDK DEMO demonstration part.The driver can be installed separately, or at the same time by packaging and combining with the application layer, at the discretion of the developer.

1. User guide

You must install the driver before using this SDK application.

1）Installation Drive

The driver is the most important part of the SDK. The driver implements the Windows Biometric API and the function interface of Windows Hello, enabling the upper application to directly call the WinBioAPI to independently implement fingerprint management function.

Specific reference for implementation:

Windows Biometric Framework

<https://msdn.microsoft.com/en-us/library/windows/desktop/dd401509(v=vs.85).aspx>

2）Start SDK DEMO for fingerprint management

SDK DEMO is the fingerprint application management program developed by WhoAreYou based on the Microsoft biometrics framework interface, including the basic functions of fingerprint input, deletion and verification.

Of course, the implementation of this application layer can have a developer refer to the interface implementation, can develop different fingerprint-based arbitrary function applications.

Specific reference for implementation:

Windows Biometric Framework API Reference

<https://msdn.microsoft.com/zh-cn/library/windows/desktop/dd401510(v=vs.85)>

1. How to install the drive

1、Open the system test mode

1）Currently, the driver version provided is the test version by win10-64bit, so the system test mode needs to be opened for installation and use:

**A.**Open the command line window (CMD) as an administrator. The opening steps are shown in figure 1 and 2:

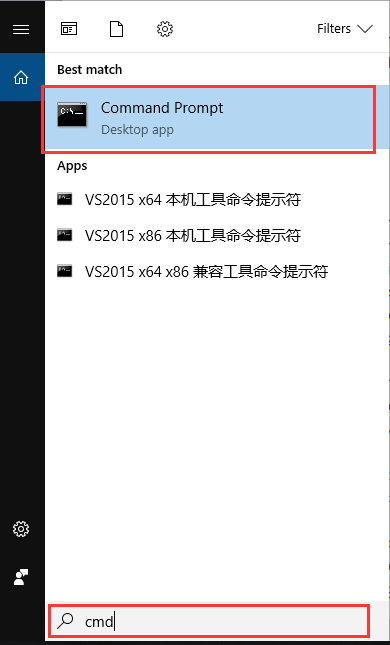


Figure 1: right-click the command prompt and select run as an administrator

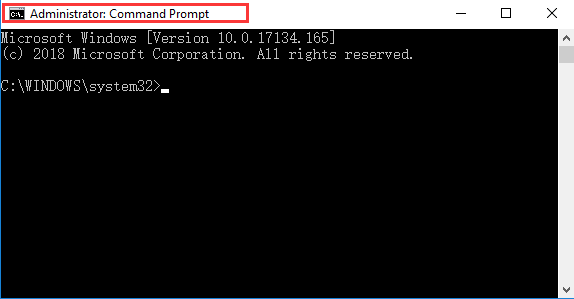


Figure 2: the command line opens correctly

**B.**Insert the following command in this window

**bcdedit /set testsigning on**

After executing the command, the operation result is "successful completion of the operation", indicating that the test mode has been opened, as shown in figure 3 below:

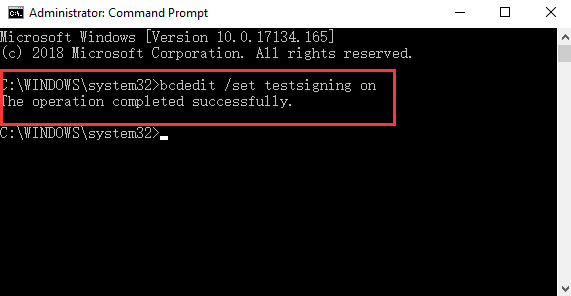


Figure 3: execute the command and open the test mode

**Note:** if you want to close test mode, you can execute this command: **bcdedit /set testsigning off**, which also requires a restart of the computer.

**C.**After successful execution of figure 3 above, the computer needs to be restarted before the test mode can be started

After opening the test mode successfully, the test mode information will be displayed in the lower right corner of the desktop, as shown in figure 4 below.

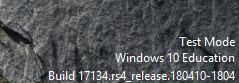


Figure 4: test mode open flag

**Note:** if the system test mode is turned on and the execution success interface is not shown in figure 3, that is, the test mode fails, it may be necessary to manually turn off the security boot Settings in the computer BIOS first, as shown in figure 5 below:

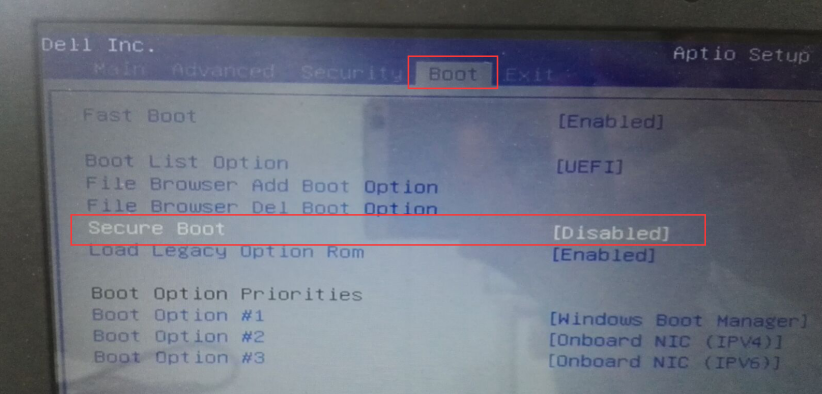
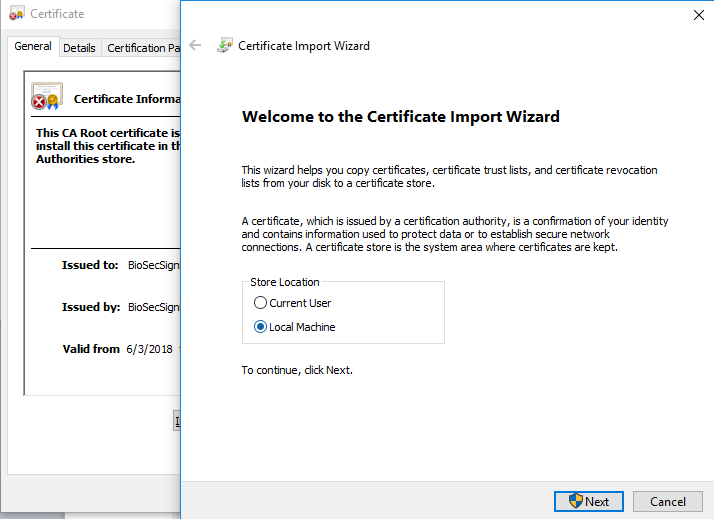


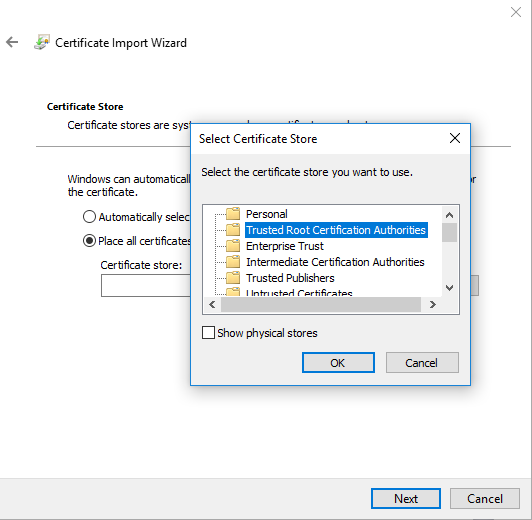
Figure 5: turn off the security startup Settings

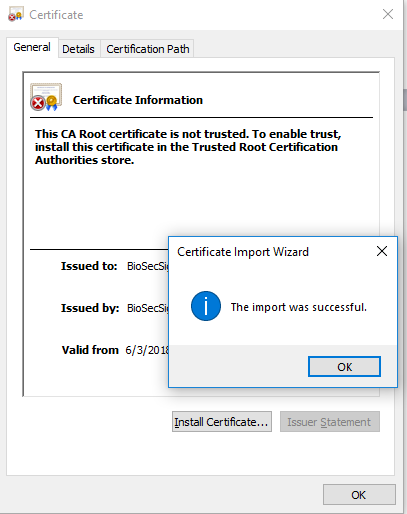
If the test mode cannot be turned on in the above steps, you need to return the windwos version or reinstall the system or seek technical support for mutual assistance.

1. Installation test certificate



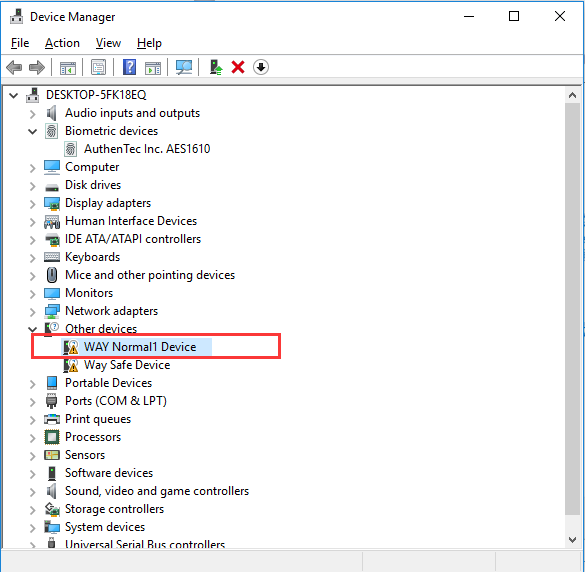


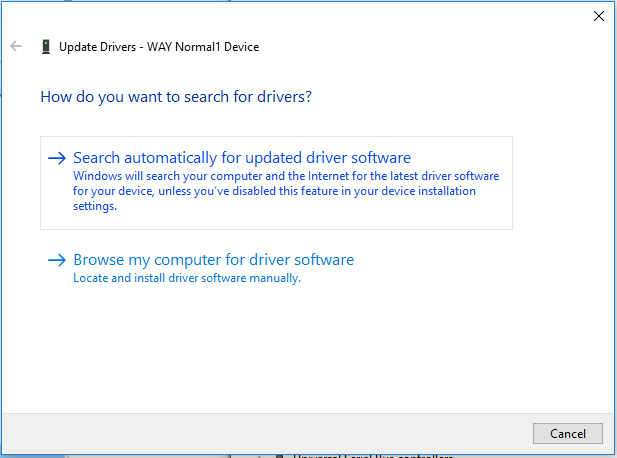


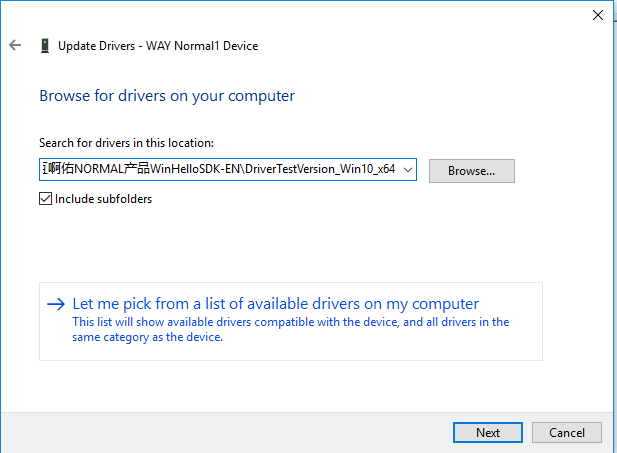


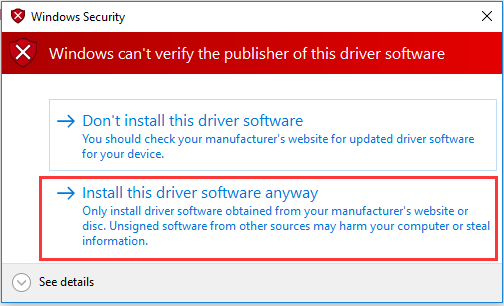
1. Install the drive

First find the following unknown device, the WayDevice, in the device manager, and right-click update driver

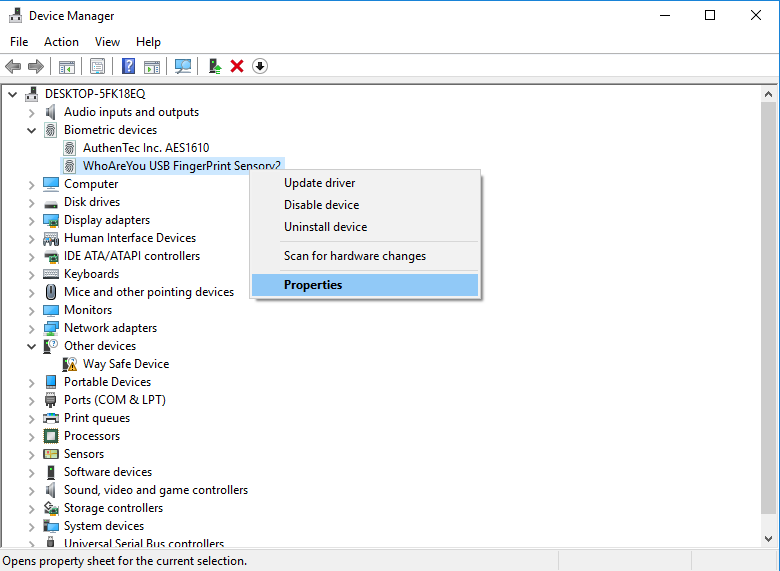


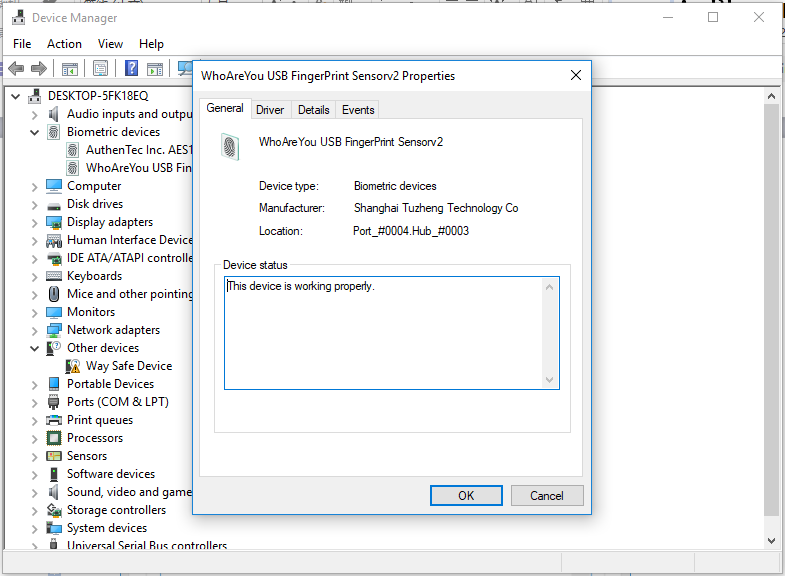






Select to always install this driver.When the driver installation is complete, check the status and version of the driver



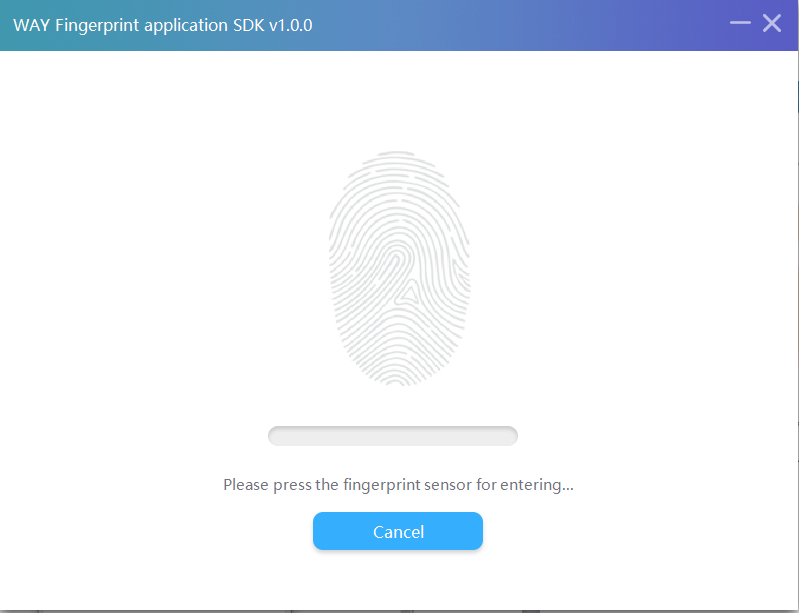


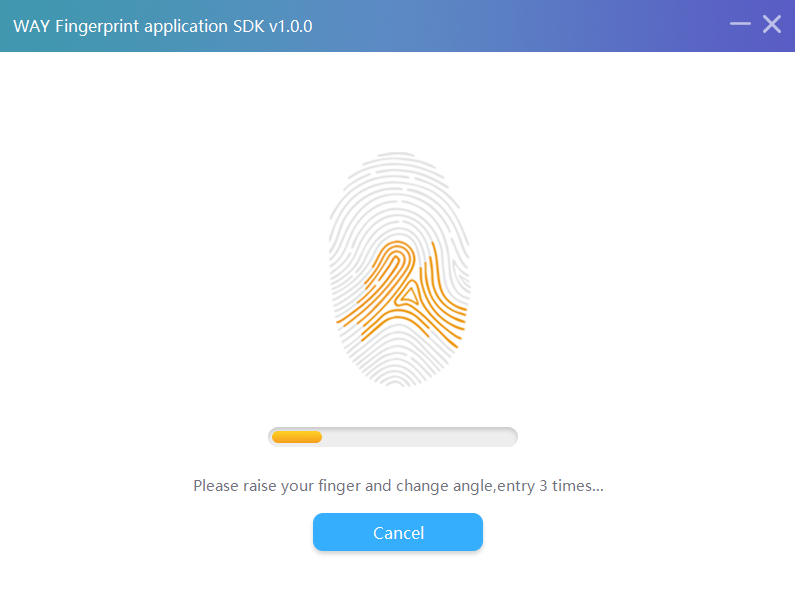
1. SDK DEMO for fingerprint management

1) Run the app SDK. Exe to start the SDK DEMO, and click the finger to enter the fingerprint

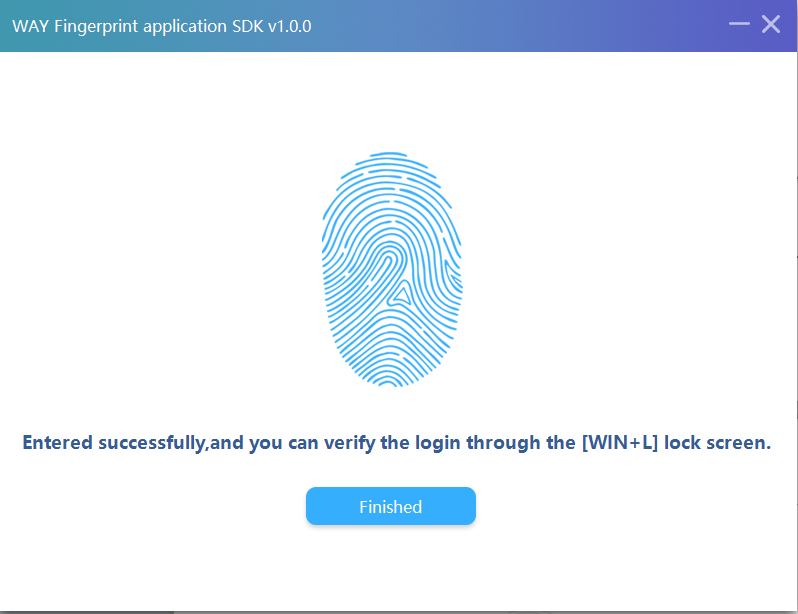


2) click the finger to enter the fingerprint process

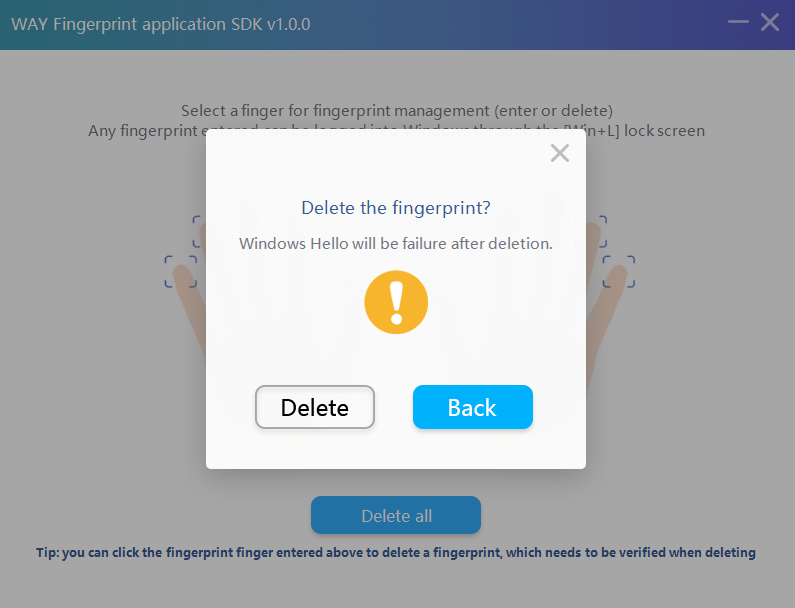


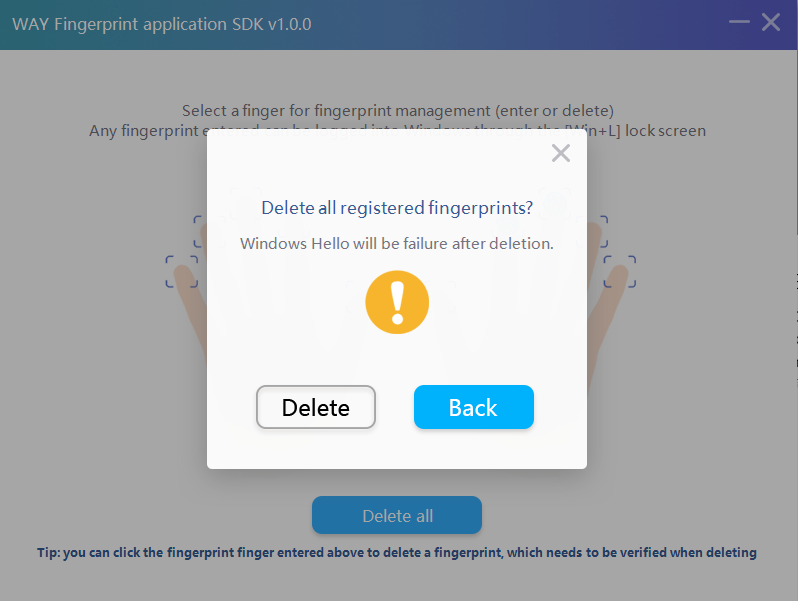


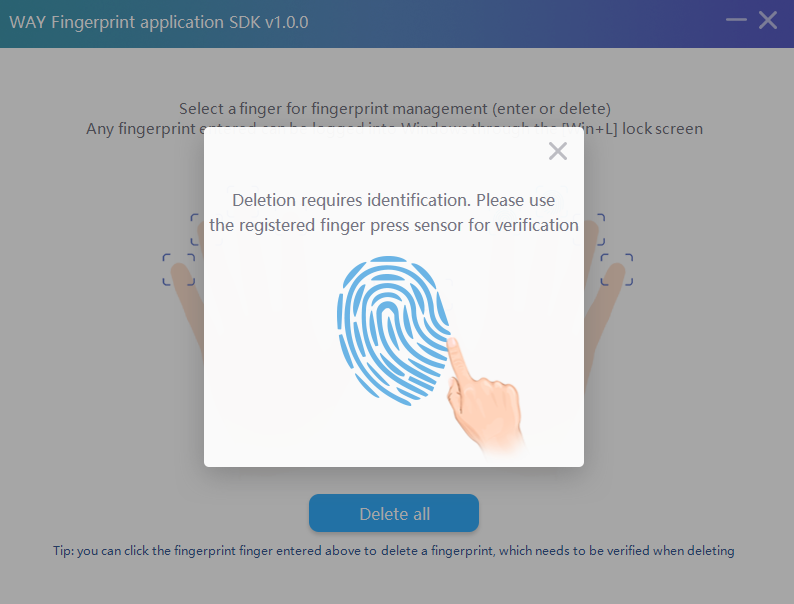
1. After successful input, you can use the [WIN+L] lock screen and use fingerprint to verify login



1. Delete fingerprint：you can click finger fingerprint for a single deletion, or you can choose to delete all







1. The SDK DEMO application source code

The SDK DEMO application source code fully follows the implementation of Windows Biometric Framework API Reference. The developer can refer to this source code to realize fingerprint function calls in independent applications, or directly use the Windows Biometric Framework API Reference interface to manage fingerprint functions.