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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GA/T 1181-2014

**Application programming interface of finger vein recognition
in security system**

安防指静脉识别应用 程序接口规范

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

The Standard Technical Committee biometric identification applications Technical Committee (SAC/by the national security and alarm system standardization TC100/SC2) and focal points.

This standard was drafted. Ministry of Public Security First Research Institute, Jiangsu Yannan Information Technology Co., Ltd., Beijing University, National Defense University, Beijing the shield of security technology development company.

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Security finger vein recognition Application Interface Specification

1 Scope

This standard specifies the security refers to the file format and interface functions vein recognition application interfaces.

This standard applies to the security finger vein recognition is used for image acquisition and data processing.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 13000 Information technology - Universal Multiple-Octet Coded Character Set (UCS)

3.1 File Format

In the Windows platform, the interface functions using Windows dynamic link library (DLL) form of release. Supported operating systems should pack Including WindowsXP/Vista/7/8 and compatible systems. Interface function should be in the dynamic link library export support multi-threading. For different Platform, it should be translated into each different dynamic link library release.

In the Linux platform, the interface functions using Linux dynamic link library (SO) in the form of release. Interface functions should lead in the dynamic link library that support multi-threading. For different platforms and Linux kernel version should be translated into each different dynamic link library release.

3.2 File name

Dynamic link library file name are shown in Table 1.

Table 1 dynamic link library file named

Interface Windows system Linux system the finger vein acquisition device interface ID_FVD.dll ID_FVD.so Finger vein recognition module interface ID_FVM.dll ID_FVM.so the finger vein algorithm interface ID_FVA.dll ID_FVA.so

4.1 Interface Description Information

In this standard, the interface function described in C language, the use of other languages, can be converted according to semantics.

Interface function returns an error code should meet the requirements of 4.5.

Interface function constants, including work status definitions, parameter type definition,

Options, flag the definition should be consistent with the requirements of 4.6.

Interface functions associated with the platform macro definition example FVAPI, FVCALL, IN, OUT, IN_OUT, etc., type definitions FVRE-