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

GB/T 33844-2017

**Information technology -- Biometrics -- Tenprint capture using
biometric application programming interface (BioAPI)**

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Foreword

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

This standard uses the re-drafting method to modify ISO /IEC 29141..2009 "Information technology biometrics for biometric

Fingerprint Capture Application Programming Interface (BioAPI) ".

The technical differences between this and ISO /IEC 29141..2009 and the reasons are as follows.

--- on the normative reference documents, this standard has made a technical differences in the adjustment to meet China's technical conditions, adjust the situation

The situation is reflected in Chapter 3, "Normative references", as follows.

Replaced ISO /IEC 19784-1 with GB/T 30267.1 equivalent to the international standard;

--- Chapter 5 Added Abbreviations CCB and COB.

- the suspension sections of Sections 7, 9, 10 and 11 of the International Standard are numbered to comply with the requirements of ISO /IEC 15001.

This standard has made the following editorial changes.

--- the international standard in Table 1 see "Note 2" to "Note";

- Added in Chapter 6 about "see Appendix A";

- Added in Chapter 7 about "see Appendix B";

- Chapter 9 adds the words "see Table 3 for the combination of IMP and FGP"

- Appendix A adds table and table headings.

Introduction

This standard specifies how BioAPI applications interact with the BioAPI framework to support finger fingerprint acquisition (all 10 fingers

Pattern collection). It specifies and supports a wide range of identity authentication management and certificate systems (which often require fingerprint fingerprinting as Identity review and part of the background check process).

This standard gives a supplement to certain fields (these fields are not defined in BioAPI) to support finger fingerprint acquisition

Standardization, but in all other aspects of the use of BioAPI application profile to support fingerprint fingerprint collection.

This standard defines a biometric data block format to carry the data obtained in fingerprint collection. In order to support finger fingerprint collection

BioAPI, this standard specifies all the parameters, function calls, and related information required for the application.

This standard also specifies compliance requirements for biometrics service providers who use this standard to implement fingerprint fingerprint collection.

Information technology biometrics identification

Used for biometric fingerprint fingerprint collection

Application Programming Interface (BioAPI)

1 Scope

This standard specifies the use of GB/T 30267.1-2013 (BioAPI) requirements to perform finger fingerprint acquisition operations.

This standard specifies the BDB format used to interact with the BioAPI framework (and BSP) to support application completion of fingerprint collection.

This standard specifies the acquisition of control blocks and acquisition of output blocks, if they meet the requirements of this standard, then meet the requirements of the BSP can support

Hold these blocks.

2 compliance

A biometric identification service provider (BSP) who claims to be in conformity with this standard shall meet the requirements set out in Chapters 6 through 10.

3 normative references

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 30267.1 Information technology - Biometrics application programming interface - Part 1. BioAPI specification (GB/T 30267.1 -

2013, ISO /IEC 19784-1..2006, IDT)

ANSI/NIST-ITL1-2007 Data format for fingerprint, face and other biometric information exchange (Dataformatfor

theinterchangeoffingerprint, facial,

4 terms and definitions

GB/T 30267.1 and ANSI/NIST-ITL1-2007 and the following terms and definitions apply to this document.

4.1

Acquisition control block capturecontrolblock; CCB

The parameters passed to the BSP determine what it should return.

4.2

Capture output block captureoutputblock; COB

A formatted data structure that contains the data object returned by the BSP and the empty field of the data object that can not be returned by the BSP.

4.3

Live scanning equipment livescandevise

Specially designed for acquiring digital fingerprint images for hardware scanners.

Note. The term "live scan" is used to distinguish between "card scans".

4.4

Print plaindpession

The fingerprint image is acquired by pressing a single finger or multiple finger on the sensor without scrolling.