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

GB/T 33842.4-2017

**Information technology -- Conformance testing methodology
for biometric data interchange formats defined in GB/T 26237 --
Part 4: Finger image data**

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Foreword

GB/T 33842 "Information technology GB/T 26237 defined in the biometric data exchange format compliance test method" is divided into

Lower part.

- Part 2. Fingerprint detail data;

- Part 4. Fingerprint image data;

Part 5. Face image data.

This part is part 4 of GB/T 33842.

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

This section uses the re-drafting method for reference to ISO /IEC 29109-4..2010

"Information technology ISO /IEC 19794 defined in Biological

Compliance with the data exchange format test method Part 4. Fingerprint image data

"preparation, consistent with ISO /IEC 29109-4..2010

Sexual degree is not equivalent.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) proposed and centralized.

This part of the drafting unit. Electronic Information Engineering Research Institute, Dongguan University of Electronic Science and Technology, Changchun Hongda photoelectron and biometric identification technology

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Introduction

The fingerprint image data exchange format specified in GB/T 26237.4-2014 can be used for one or more of the data contained in a common biometric

(CBEFF) of the fingerprint image of the recording, storage and transmission, each of which should have a corresponding header record with the corresponding

Image-related metadata. This part of GB/T 33842 establishes an inspection test for the correctness of the above binary recording format.

The conformance of the biometric product to the specification as defined by GB/T 26237.4-2014 should be tested. Interoperability between implementations

Acting as a necessary prerequisite for compliance. Therefore, for the GB/T 26237 part of the definition of the specific mode, it is necessary to develop

Standardized conformance testing methods, test assertions and test procedures. The test assertion will cover the requirements of GB/T 26237

Of the most critical features, so the test gives the results of the results will reflect the GB/T 26237 data exchange format to achieve the real record

Sexual degree. The above is the purpose of the development of this compliance test method.

This part of GB/T 33842 supports the use of fingerprint image data as defined by GB/T 26237.4-2014. This part

The defined test method is used to confirm the conformity of the provider's application or service to GB/T 26237.4-2014. This section.

--- for compliance with GB/T 26237.4-2014 requirements of the fingerprint and palm print image data records, the establishment of compliance test method framework

The elements;

- Requirements and guidelines for defining conformance test suites and associated test methods for measurement in accordance with GB/T 26237.4-2014

Of the fingerprint image data required to record the conformity of products and services;

- Define the test and reporting procedures that should be followed before, during, and after the compliance test.

This part of GB/T 33842 is applicable to the development and use of compliance test methods for records complying with GB/T 26237.4-2014

Certification test suite, and in line with GB/T 26237.4-2014 product development and use of compliance testing procedures. This part can be

Testing organizations can also be used by test methods and test methods for developers and users. The test assertion table is specified for

GB/T 26237.4-2014 Test of conformity testing.

Information technology GB/T 26237 defined in the biological

Compliance Test Method for Characteristic Data Interchange Format

Part 4. Fingerprint image data

1 Scope

This part of GB/T 33842 specifies the elements of the conformity testing method for GB/T 26237.4-2014, test assertions and tests

Test procedure.

This section applies to.

- Test assertions of the structure of the fingerprint image data format specified in GB/T 26237.4-2014 (corresponding to ISO /IEC 29109-1.

The level of TypeA defined in.2009 1);

- by detecting the type of the value of each field in the fingerprint image data format specified in GB/T 26237.4-2014

A consistent test assertion (corresponding to Level 2 of TypeA defined in ISO /IEC 29109-1..2009);

- Semantic test assertions of the fingerprint image data format specified in GB/T 26237.4-2014 (corresponding to ISO /IEC 29109-1.

Level 3 of TypeA defined in.2009).

This section does not apply to.

- GB/T 26237.4-2014 required CBEFF structure of the compliance test;

- other characteristics of the biometric product testing or other types of testing (such as acceptance rate, performance, robustness and security, etc.);

- does not produce compliance with GB/T 26237.4-2014 requirements of the system compliance test.

2 normative reference documents

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 modifications) applies to this document.

GB/T 26237.1-2010 Information technology - Biometrics data exchange format - Part 1. Framework (ISO /

IEC 19794-1..2006, MOD)

GB/T 26237.4-2014 Information technology - Biometric data interchange format - Part 4. Fingerprint image data (ISO /

IEC 19794-4..2005, NEQ)

Information technology - Biometrics terminology GB/T 26238-2010

ISO /IEC 29109-1..2009 Information technology ISO /IEC 19794 Define the conformance of the biometric data exchange format

Methodology Part 1. Principles of conformity testing methods
(Information technology-Conformancetestingmethodology

forbiometricdatainterchangeformatsdefinedinISO /IEC 19794-Part 1.
Generalizedconformance

testingmethodology

3 terms and definitions

GB/T 26237.1-2010 and GB/T 26238-2010 The terms and definitions defined apply to this document.

4 abbreviations

ISO /IEC 29109-1..2009 and the following abbreviations apply to this document.