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

GB/T 30268.1-2013

**Information technology -- Conformance testing for the
biometric application programming interface (BioAPI) -- Part 1:
Methods and procedures**

信息技术 生物特征识别应用程序接口 (BioAPI) 的符合性测试 第1部分：方法和
规程

(English Translation)

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Foreword

GB/T 30268 "Information technology - Biometric application programming interface (BioAPI) compliance testing" is divided into the following four parts.

- Part 1. Methods and procedures;
- Part 2. Test biometric service providers assertion;
- Part 3. Test assertions BioAPI framework;
- Part 4. biometric application test assertions.

This section GB/T Part of 130,268.

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

This section uses the translation method identical with the international standard ISO/IEC 24709-1:2007 "Information technology - Biometric application Interface (BioAPI) compliance testing - Part 1. Methods and procedures. " this section also made the following editorial changes. In Chapter 3, the inclusion in the ISO/IEC 24709-1:2007 7.2.1 Normative References the ISO/IEC 10646:2003 that is GB/T 13000-2010.

Consistency correspondence between this part of the normative international documents referenced with our file.

--- GB/T 30267.1-2013 Information technology section Biometric Application Programming Interface Chapter 1. BioAPI Specification (ISO/IEC 19784-1:2006, IDT).

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.

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

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Introduction

This section defines conformance test methods biometrics, detailing three kinds compliance testing model can be applied separately, box Racks and BSP, three BioAPI components for compliance testing. Also described for test assertions defined assertion language. BioAPI the actual test assertions of each component in GB/T 30268 in the subsequent sections are defined.

This section also includes some of the concepts and guidelines for the establishment and management concepts BioAPI conformity assessment and verification procedures. Guidelines for Identification of the claim compliance BioAPI the application of conformity assessment, and to verify the type of activity, response, service and documentation. In addition, GB/T 30268 in this section provides a complete BioAPI establish conformity assessment methods guidelines.

--- Chapter 6. Introduction BioAPI test methods and conformance test model;

--- Chapter 7. Defining XML-based compliance testing assertion language;

--- Chapter 8. Defining elements assertion language;

--- Chapter 9. Introduction BioAPI conformance testing use BioAPI standard interface

functions;

- Chapter 10. built-in variables defined assertion language;
- Chapter 11. Defining use XML syntax test log;
- Chapter 12. Defining the use of XML syntax test report;
- Chapter 13. Description BioAPI conformance test suite structure and basic concepts;
- Appendix A. XML schema definition of the assertion language;
- Appendix B. defines assertions ASN.1 language of architecture;
- Appendix C. defines the XML Schema for the test log;
- Annex D. Getting knowledge BioAPI describes the method of testing, including compliance testing process and test item description;
- Annex E. describes the general framework for the entire BioAPI conformity assessment process;
- Annex F. provides a diagram assertion language.

Reference lists some standards organizations, including. ISO , IEC , NIST, IEEE, and other published conformity assessment, and compliance test file or organization White Paper 1).

1) GB/T 30268 This section contains excerpts references rather than references to these files.

Information technology - Biometric application program interface (BioAPI) compliance testing Part 1. Methods and procedures

1 Scope

1.1

GB/T 30268 into compliance with this Part BioAPI (see ISO/IEC 19784-1) compliance testing biometric products, Regulation Set of concepts, frameworks, test methods and criteria. Also provided BioAPI conformance test suite guide, written to test assertions Conformity and testing process to be followed.

1.2

part focuses comply BioAPI (see ISO/IEC 19784-1) compliance testing biometric products, do not pay attention biometric Signature identification product testing or other types of testing other features (such as acceptability, performance, robustness, security, etc.). Not included for special Given test biometric products.

1.3

section applies to conformance test methods -, BioAPI conformance test suite, in line with BioAPI product compliance testing process Development and use of sequence; can be used for testing body, but can also be used for developers and users to test assertions and test methods.

2 Compliance

2.1

part BioAPI conformance test suite should support one or more compliance test model (see 6.2), and should be able to perform its support Valid test assertion to test the model, these assertions are defined in Chapter 7 to Chapter 10.

Note: There are no restrictions on the form and structure of BioAPI conformance test suite, the contents of the communication between tasks or components such as the number of components, assemblies and completed form.

2.2

BioAPI compliance test suite should be able to verify the correctness of any of the conformance test model included in the syntax, including the assertion or activities (or both both) (see 7.1.6), including the package does not support the compliance test model (if it exists).

2.3

For the compliance test model support, BioAPI conformance test suites and test should be able to carry out the activities necessary to interact (with Body to a computing platform), you can call BioAPI standard interface function testing activities, testing activities and can receive BioAPI standard interfaces Function calls itself.

Note 1: In compliance test model BioAPI application, does not require BioAPI conformance test suite can start or stop activities, but a mechanism is needed to detect the beginning and end of the test activities.

Note 2: Not required BioAPI conformance test suite can test all consistent with basic standards activities. Including but not limited to. creating BioAPI Compliance Circumstances platform test suite and create a platform for testing activities inconsistent; testing activities dependent on hardware (but the device can not be active in the test Running on the running platform) situation.

2.4

BioAPI conformance test suite should generate a test log for each test campaign (see Chapter 11) and a test report (see para. 12 chapter).

If BioAPI 2.5 conformance test suite can not perform the basic activities of the test standard test, it should not be recorded in the test report Execution rather not meet.