

Australian Standard[®]

**Information technology—Conformance
testing for the biometric application
programming interface (BioAPI)**

**Part 2: Test assertions for biometric
service providers**

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-

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Australian Standard[®]

Information technology—Conformance testing for the biometric application programming interface (BioAPI)

Part 2: Test assertions for biometric service providers

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PREFACE

This Standard was prepared by the Standards Australia Committee IT-032, Biometrics and Identification.

The objective of this Standard is to define a number of test assertions written in the assertion language specified in AS ISO/IEC 24709.1 and specifies what subset of all the test assertions defined herein are to be executed for each of the five conformance subclasses of BSPs defined in AS ISO/IEC 19784.1 and specifies additional assertions that are to be executed depending on the optional features of BioAPI 2.0 that the implementation under test claims to support.

This Standard is identical with, and has been reproduced from ISO/IEC 24709-2:2007 *Information technology—Conformance testing for the biometric application programming interface (BioAPI) – Part 2: Test assertions for biometric service providers*.

As this Standard is reproduced from an international standard, the following applies:

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (b) In the source text ‘this part of IEC/ISO 24709’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO/IEC		AS ISO/IEC	
19784	Information technology— Biometric application programming interface	19784	Information technology— Biometric application programming interface
19784-1	Part 1: BioAPI specification	19784.1	Part 1: BioAPI specification
24709	Information technology— Conformance testing for the biometric application programming interface (BioAPI)	24709	Information technology— Conformance testing for the biometric application programming interface (BioAPI)
24709-1	Part 1: Methods and procedures	24709.1	Part 1: Methods and procedures

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INTRODUCTION

This part of ISO/IEC 24709 defines a number of test assertions written in the assertion language specified in ISO/IEC 24709-1. These assertions enable a user of this part of ISO/IEC 24709 (such as a testing laboratory) to test the conformance to ISO/IEC 19784-1 (BioAPI 2.0) of any biometric service provider (BSP) that claims to be a conforming implementation of that International Standard.

The organization of the test assertions in this part of ISO/IEC 24709 reflects the structure of Annex A of ISO/IEC 19784-1:2006, which specifies conformance to BioAPI for various types of implementations (BSPs, frameworks, and applications) and for BSPs belonging to several conformance subclasses.

This part of ISO/IEC 24709 contains test assertions for testing conformance of BSPs of all conformance subclasses. The assertions are further organized according to conformance subclasses (if any) and claimed support of optional features.

Each test assertion exercises one or more (possibly elementary) features of an implementation under test. Assertions are placed into packages (one or more assertions per package) as required by the assertion language.

Clause 6 specifies general principles.

Clause 7 lists test assertions to be used in the conformance testing model for BioAPI BSPs, with specific provisions as follows:

Clause 7.1 contains descriptions of the BioAPI Conformity Statement and the test assertions.

Clause 7.2 contains specific provisions for BSPs of subclass "Verification BSP".

Clause 7.3 contains specific provisions for BSPs of subclass "Identification BSP".

Clause 7.4 contains specific provisions for BSPs of subclass "Capture BSP".

Clause 7.5 contains specific provisions for BSPs of subclass "Verification Engine".

Clause 7.6 contains specific provisions for BSPs of subclass "Identification Engine".

Clause 8 specifies the assertions to be used in the conformance testing model for BioAPI BSPs, for all conformance subclasses of BSPs (see ISO/IEC 19784-1:2006, A.4).

AUSTRALIAN STANDARD

Information technology—Conformance testing for the biometric application programming interface (BioAPI)

Part 2:

Test assertions for biometric service providers

1 Scope

This part of ISO/IEC 24709 defines a number of test assertions written in the assertion language specified in ISO/IEC 24709-1.

This part of ISO/IEC 24709 specifies what subset of all the test assertions defined here are to be executed for each of the five conformance subclasses of BSPs defined in ISO/IEC 19784-1 (BioAPI 2.0). It also specifies additional assertions that are to be executed depending on the optional features of BioAPI 2.0 that the implementation under test claims to support.

Test assertions specified in this part of ISO/IEC 24709 are not claimed to be exhaustive (see also ISO/IEC 24709-1:2007, Clause 6). Biometric service provider implementations that are tested according to the methodology specified in ISO/IEC 24709-1 and with the test assertions specified in this part of ISO/IEC 24709 can (only) claim conformance to those aspects of ISO/IEC 19784-1 that are covered by these test assertions.

2 Conformance

Implementations (BioAPI conformance test suites) claiming conformance to this part of ISO/IEC 24709 shall be able to process all the test assertions specified in Clause 8 according to the methodology specified in ISO/IEC 24709-1 and the general principles and conditions specified in Clauses 6 and 7.

3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 19784-1:2006, *Information technology — Biometric application programming interface — Part 1: BioAPI specification*

ISO/IEC 24709-1:2007, *Information technology — Conformance testing for the biometric application programming interface (BioAPI) — Part 1: Methods and procedures*

4 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 24709-1 apply.