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Information technology — Biometric data interchange formats —

Part 11: Signature/sign processed dynamic data

AMENDMENT 1: Conformance test assertions

*Technologies de l'information — Formats d'échange de données
biométriques —*

Partie 11: Données dynamiques traitées de signature/signé

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. www.iso.org/directives

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/IEC JTC 1, *Information Technology*, Subcommittee SC 37, *Biometrics*.

Information technology — Biometric data interchange formats —

Part 11: Signature/sign processed dynamic data

AMENDMENT 1: Conformance test assertions

Page 1, Clause 1

Add the following text to the existing Scope:

“This part of ISO/IEC 19794 also specifies elements of conformance testing methodology, test assertions, and test procedures as applicable to this part of ISO/IEC 19794. It establishes test assertions pertaining to the structure of the signature/sign processed dynamic data format (Type A Level 1 as defined in ISO/IEC 19794-1X AMD 1), test assertions pertaining to internal consistency of the types of values that may be contained within each field (Type A Level 2 as defined in ISO/IEC 19794-1X AMD 1), and semantic test assertions (Type A Level 3 as defined in ISO/IEC 19794-1X AMD 1).

The conformance testing methodology specified in this part of ISO/IEC 19794 does not establish:

- tests of other characteristics of biometric products or other types of testing of biometric products (e.g. acceptance, performance, robustness, security),
- tests of conformance of systems that do not produce data records conforming to the requirements of this part of ISO/IEC 19794.”

Page 1, Clause 2

Add the following text to the existing “Conformance” clause:

“Biometric data interchange format conformance tests conform to this part of ISO/IEC 19794 if they satisfy all of the normative requirements set forth in clauses X, Y, and Z. Specifically, they shall use the test methodology specified in Clauses A, B, and C of ISO/IEC 19794-1x AMD 2, and all Level 1, Level 2 and Level 3 tests shall use the assertions defined in Table N of Clause M in this part of ISO/IEC 19794.

Implementations of this part of ISO/IEC 19794 tested according to the specified methodology shall be able to claim conformance only to those biometric data record (BDB) requirements specified in this part of ISO/IEC 19794 that are tested by the test methods established by this methodology.

Implementations of this part of ISO/IEC 19794 do not necessarily need to conform to all possible aspects of this part of ISO/IEC 19794, but only to those requirements that are claimed to be supported by the implementation in an implementation conformance statement (ICS), filled out in accordance with Clause K of ISO/IEC 19794-1x AMD 1 and Table K of Clause R of this part of ISO/IEC 19794.”

Page 17, [Annex A](#)

Replace the existing [Annex A](#) by the following:

Annex A (normative)

Conformance test assertions

A.1 Introduction

This normative annex specifies elements of conformance testing methodology, test assertions, and test procedures as applicable to signature/sign processed dynamic data.

The normative annex establishes

- conformance test assertions on the structure and internal consistency of signature/sign processed dynamic data as specified in this part of ISO/IEC 19794 (Type A Level 1 and Level 2 as defined in ISO/IEC 19794-1X AMD 1),
- semantic conformance test assertions on signature/sign processed dynamic data as specified in this part of ISO/IEC 19794.

This normative annex does not establish

- conformance test assertions on CBEFF structures embedding signature/sign processed dynamic data,
- test assertions on other characteristics of biometric products (e.g. acceptance, performance, robustness, security),
- conformance test assertions on systems that do not produce signature/sign processed dynamic data as specified in this part of ISO/IEC 19794.

The conformance testing methodology specified in ISO/IEC 19794-1X AMD 1 shall apply. The content of the tables below is based on ISO/IEC 19794-1X AMD 1 and shall only be used in the context of that conformance testing methodology.

The conformance test assertions are listed in the order in which the corresponding fields are required to appear, if present, in a conforming record.

A.2 Table of requirements

The normative requirements of this part of ISO/IEC 19794 are listed in the [Table A.1](#). The supplier of the IUT shall explain which optional components of the standard are supported and the testing laboratory shall note the results of the test.

Table A.1 — Requirements of the Base Standard

Requirement ID	Reference in Base Standard	Requirement Summary	Level	Status	IUT Support	Supported Range	Test Result
R-1	2	Satisfies all of the normative requirements related to the data structure, data values and the relationships between its data elements, as specified in Clause 8 of this part of ISO/IEC 19794		0			
R-2	2	Satisfies all of the normative requirements related to the relationship between its data values and the input biometric data from which the biometric data record was generated, as specified in Clause 8 of this part of ISO/IEC 19794		0			
R-3	5.1	The coordinate system used to express the pen position shall be a two-dimensional Cartesian coordinate system.		0			
R-4	5.1	The x-axis shall be the horizontal axis of the writing plane, with the x coordinates increasing to the right starting at 0.		0			
R-5	5.1	The y-axis shall be the vertical axis of the writing plane, with y coordinates increasing upwards starting at 0.		0			
R-6	5.2	The more significant bytes of any multi-octet quantity are stored at lower addresses in memory than (and are transmitted before) less significant bytes.		0			
R-7	7.2	The X, Y coordinates, pressure F, time T, and type of event shall be recorded		0			
R-8	8.1	Each record shall pertain to a single subject		0			
R-9	8.1	Each record shall contain a signature/sign processed dynamic record (consisting of one or more representations)		0			

Table A.1 (continued)

Requirement ID	Reference in Base Standard	Requirement Summary	Level	Status	IUT Support	Supported Range	Test Result
R-10	8.2	The format identifier shall be recorded in four bytes. The format identifier shall consist of three characters "SPD" followed by a zero byte as a NULL string terminator.	1	M			
R-11	8.2	The number for the version of that part of ISO/IEC 19794 used for constructing the BDIR shall be placed in four bytes. This version number shall consist of three ASCII numerals followed by a zero byte as a NULL string terminator. The first and second character will represent the major version number and the third character will represent the minor revision number. The version number shall be "010" – Version 1 revision 0.	1	M			
R-12	8.2	The length (in bytes) of the entire BDIR shall be recorded in four bytes. This count shall be the total length of the BDIR including the general record header and one or more representation records.	2	M			
R-13	8.2	The total number of representation records contained in the BDIR shall be recorded in two bytes. A minimum of one representation is required.	2	M			
R-14	8.2	The one-byte certification flag shall indicate whether each Representation Header includes a certification block. Its value shall be 00 _{Hex} to indicate that no representation contains a certification block.	1	M			
R-15	8.3.1	The Representation Length recorded in 4 bytes shall denote the length in bytes of the representation header including the representation header fields.	2	M			