ISO/IEC 19794-14:2022/~~FDAM~~FDAmd 1~~:2024(en)~~

Information technology — Biometric data interchange formats —

Part 14:
DNA data

~~Amendment~~ AMENDMENT 1: Conformance requirements

~~Final Draft Amendment (FDAM) 1~~

FDIS stage

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 37, *Biometrics*.

~~This amendment supplements the second edition (ISO/IEC 19794-14:2022). It contains updates to the incorrect and missing conformance requirements in ISO/IEC 19794-14:2022. These updates are based on the issues identified by the ISO/IEC JTC1 SC37 WG 3 Ad hoc group on ISO/IEC 19794-14 testing.~~

A list of all parts in the ISO/IEC 19794 series can be found on the ISO and IEC websites.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at ~~www.iso.org/members.html~~www.iso.org/members.html and www.iec.ch/national-committees.

Information technology — Biometric data interchange formats —

Part 14:
DNA data Amendment

AMENDMENT 1: Conformance requirements

Clause B.1

~~Append~~Add the following paragraph at the end of the clause:

> The Biometric Conformance Test Software (BioCTS) is a freeware developed by the National Institute of Standards and Technology (NIST) to perform conformance tests for various parts of the ISO/IEC 19794 series. One of the supported ~~standards~~International Standards is ISO/IEC 19794-14:2022. The software is available for download at ~~https://www.nist.gov/itl/csd/biometrics-resource-center/biometric-conformance-test-software-biocts/biocts-isoiec~~https://www.nist.gov/itl/csd/biometrics-resource-center/biometric-conformance-test-software-biocts/biocts-isoiec.

B.2.~~3~~.2

Add the following text at the end of subclause B.2.2:

Within Table B.1

~~In this document, we differentiate~~, a differentiation between requirements and other provisions ~~based on the language used to describe them:~~

- ~~•~~ is indicated through the use of the prefixes "R-*x*" (requirements) and "P-*x*" (other provisions). Requirements~~: These~~ are mandatory ~~rules or conditions that must be followed. They are indicated by the use of the verbal form "shall." Requirements~~provisions, which are critical for ensuring compliance and are non-negotiable. ~~In this document, requirements are identified with an "R" prefix, such as R-1.~~

- ~~**Provisions**: These are guidelines or permissions that allow for flexibility. They are indicated by the use of the verbal form "may." Provisions~~Other provisions offer options or permissions rather than mandates, giving users discretion in certain situations. ~~In this document, provisions are identified with a "P" prefix, such as P-2.~~

~~All entries in the "Requirement/Provision Summary" column reflect these definitions. An entry with "shall" is classified as a requirement (e.g., R-1), while an entry with "may" is classified as a provision (e.g., P-2).~~

Table B.1

Replace the ~~whole~~ table with the following:

Table B.1 — Summary of Level 1 and Level 2 requirements and options

Requirement/ Provision ID	Subclause reference	Requirement/ Provision summary	Level	Status	IUT support	Supported range	Test result
R-1	6.1	XML documents encoding DNA data shall validate against the XML schema definition in Clause A.1.	1	M			
P-2	6.3.1	A DNA data XML document (DnaData field) may contain a list of representations (Representations field).	1	O			
P-3	6.3.1	A DNA data XML document (DnaData field) may contain a list of pedigrees (Pedigrees field).	1	O			
R-4	6.3.2.2	In an XML document following this document, the version field shall contain major version 4 and minor revision 0.	2	M			
R-5	6.3.2.3	When communication direction is "Response", the transaction field shall contain a TransactionProcessingStatus field.	2	M			
R-6	6.3.2.3	When communication direction is "Response", the transaction field shall contain a TransactionProcessingMessage field.	2	M			
R-7	6.3.2.3	When communication direction is "Response", the transaction field shall contain a RespondingToRequestId field.	2	M			
P-8	6.3.2.4	A sending party of the DNA data XML document (SendingParty field) may contain an OrganizationCode field.	1	O			
P-9	6.3.2.4	A sending party of the DNA data XML document (SendingParty field) may contain an OrganizationPOCName field.	1	O			
P-10	6.3.2.4	A category of the sending or receiving party (PartyCategory field) may contain a UnitCategory field.	1	O			
P-11	6.3.2.4	A category of the sending or receiving party (PartyCategory field) may contain a UnitLocation field.	1	O			
P-12	6.3.2.5	A receiving party of the DNA data XML document (ReceivingParty field) may contain an OrganizationCode field.	1	O			

Requirement/ Provision ID	Subclause reference	Requirement/ Provision summary	Level	Status	IUT support	Supported range	Test result
P-13	6.3.2.5	A receiving party of the DNA data XML document (ReceivingParty field) may contain an OrganizationPOCName field.	1	O			
R-14	6.3.3.1	When the communication direction is "Request", the representation shall contain a Request field.	2	M			
R-15	6.3.3.1	When the communication direction is "Response", the representation shall contain a Response field.	2	M			
P-16	6.3.3.1	A DNA data representation (Representation field) may contain a CaseUrgencyIndicator field.	1	O			
P-17	6.3.3.1	A DNA data representation (Representation field) may contain a SupplementaryMessage field.	1	O			
R-18	6.3.3.2	If RequestCategory is "Other", then Description shall exist, cannot be null or zero-length string, and shall contain text since details shall be included in the Description field.	2	M			
P-19	6.3.3.2	A DNA request (Request field) may contain a UserDefined field.	1	O			
P-20	6.3.3.2	A DNA request (Request field) may contain a Description field.	1	O			
P-21	6.3.3.2	A user defined request (UserDefined field) may contain a TypeCode field.	1	O			
R-22	6.3.3.3	If ResponseCategory is "Other", then Description shall exist, cannot be null or zero-length string, and shall contain text since details shall be included in the Description field.	2	M			
R-23	6.3.3.3	If ResponseCategory is "MatchCandidate", the Response field shall contain a RespondingToProfileId field.	2	M			
R-24	6.3.3.3	If the response contains a pedigree, the Pedigrees/ Pedigree/ Response field shall contain a RespondingToPedigreeId field. Although the XSD technically permits RespondingToPedigreeId to appear under DnaData/ Representations/ Representation, this requirement is intended to ensure that the RespondingToPedigreeId is specifically included in the pedigree response, rather than in the Representation.	2	M			

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Requirement/ Provision ID	Subclause reference	Requirement/-Provision summary	Level	Status	IUT support	Supported range	Test result
P-25	6.3.3.3	A DNA response (Response field) may contain a UserDefined field.	1	O			
P-26	6.3.3.3	A DNA response (Response field) may contain a MatchQuality field.	1	O			
P-27	6.3.3.3	A DNA response (Response field) may contain a Description field.	1	O			
P-28	6.3.3.4	A DNA profile identification block (DnaProfileIdBlock field) may contain a CountryCode field.	1	O			
P-29	6.3.3.4	A DNA profile identification block (DnaProfileIdBlock field) may contain a FederalStateCode field.	1	O			
P-30	6.3.3.4	A DNA profile identification block (DnaProfileIdBlock field) may contain an OrganizationCode field.	1	O			
R-31	6.3.3.6	If RepresentationCategory is "Other", then SupplementaryMessage shall exist, cannot be null or zero-length string, and shall contain text since details shall be included in the SupplementaryMessage field.	2	M			
P-32	6.3.3.7.1	The donor of a DNA data representation (RepresentationDonor field) may contain a DonorVitalStatus field.	1	O			
P-33	6.3.3.10.1	A DNA data block (DnaDataBlock field) may contain a DateAndTimeOfAnalysis field.	1	O			
P-34	6.3.3.10.1	A DNA data block (DnaDataBlock field) may contain a BatchId field.	1	O			
P-35	6.3.3.10.1	A DNA data block (DnaDataBlock field) may contain a KitId field.	1	O			
P-36	6.3.3.10.1	A DNA data block (DnaDataBlock field) may contain an ErrorMessage field.	1	O			
P-37	6.3.3.10.1	A DNA data block (DnaDataBlock field) may contain a DnaDataComment field.	1	O			
P-38	6.3.3.10.1	A DNA data block (DnaDataBlock field) may contain a SampleCollectionDate field.	1	O			
P-39	6.3.3.10.1	A DNA data block (DnaDataBlock field) may contain a SampleCellKind field.	1	O			
P-40	6.3.3.10.1	A DNA data block (DnaDataBlock field) may contain a SampleCollectionMethod field.	1	O			