

# ISO/IEC 39794-9:2021 (E)

## Information technology — Extensible biometric data interchange formats — Part 9: Vascular image data

---

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Symbols and abbreviated terms
5	Conformance
6	Modality-specific information
6.1	Capture recommendations
6.1.1	Image area
6.1.2	Illumination
6.1.3	Normalization of projection
6.1.4	Occlusion by opaque artifacts
6.2	Image coordinate system considerations
6.2.1	Standard pose
6.2.1.1	General
6.2.1.2	Palm
6.2.1.3	Finger
6.2.1.4	Back of the hand
6.2.1.5	Standard poses for future modalities
6.2.2	Object coordinate system
6.2.2.1	General
6.2.2.2	Palm
6.2.2.3	Finger
6.2.2.4	Back of hand
6.2.2.5	Coordinate systems for future modalities
6.3	Image representation requirements
6.3.1	General
6.3.2	Pixel aspect ratio
6.3.3	Bit-depth
6.3.4	Spatial sampling rate
7	Abstract data elements
7.1	Purpose and overall structure
7.2	Vascular image data block
7.3	Version block
7.4	Representation blocks
7.5	Position
7.6	Image data format
7.6.1	Supported image data formats
7.6.2	PGM format definition
7.7	Vascular image data
7.8	Capture date/time block
7.9	Capture device block
7.9.1	Model identifier block
7.9.2	Capture device technology identifier

7.9.3	Certification identifier block
7.10	Quality blocks
7.11	Scan resolution block
7.12	Pixel aspect ratio block
7.13	Bit-depth
7.14	Rotation angle
7.15	Image flip
7.16	Illumination
7.17	Imaging method
7.18	Image background
7.19	PAD data block
7.20	Segmentation blocks
7.21	Annotation blocks
7.22	Comment blocks
7.23	Vendor specific data blocks
<b>8</b>	<b>Encoding</b>
8.1	Tagged binary encoding
8.2	XML encoding
<b>9</b>	<b>Registered format type identifiers</b>
<b>Annex A</b>	<b>(normative) Formal specifications</b>
A.1	ASN.1 module for tagged binary encoding
A.2	XML schema definition for XML encoding
<b>Annex B</b>	<b>(informative) Encording examples</b>
B.1	Sample ASN.1 encoding for vascular image data
B.2	Sample XML encoding for vascular image data
<b>Annex C</b>	<b>(normative) Conformance test methodology</b>
C.1	Overview
C.2	Conformance test assertions

Page count: 31