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

**GB/T 26237.9-2022**

Replacing GB/T 26237.9-2014, GB/T 32903-2016

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**Information technology - Biometric data interchange formats -  
Part 9: Vascular image data**

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## foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents" drafting.

This document is part 9 of GB/T 26237 "Information Technology Biometric Data Interchange Format". GB/T 26237 has

The following parts were released.

- Part 1. Framework;
- Part 2. Fingerprint detail point data;
- Part 3. Fingerprint spectral data;

- Part 4.Fingerprint image data;
- Part 5.Face image data;
- Part 6.Iris image data;
- Part 7.Signature/signature time series data;
- Part 8.Fingerprint skeleton data;
- Part 9.Vascular image data;
- Part 10.Hand contour data;
- Part 14.DNA data;
- Part 15.Palmprint image data.

This document replaces GB/T 26237.9-2014 "Information Technology Biometric Data Interchange Format - Part 9.Vascular Images

Data", GB/T 32903-2016 "Information Technology Finger Vein Recognition System Finger Vein Image Data Format", and GB/T 26237.9-

Compared with.2014, except for structural adjustment and editorial changes, the main technical changes are as follows.

- a) Added the clarification clause of the conformity test in the scope (see Chapter 1);
- b) Deleted "acquisition" (see 4.1 of GB/T 26237.9-2014), "region of interest" (see 4.4 of GB/T 26237.9-2014),  
"Vascular image head record" (see 4.6 of GB/T 26237.9-2014), "ventral surface" (see 4.7 of GB/T 26237.9-2014), "blood

## **5 terms and definitions including "Biometric Image Record" (see 4.8 of GB/T 26237.9-2014);**

- c) Changed the definition of the term "back" (see 3.2, see 4.3 of GB/T 26237.9-2014);
- d) Added "BCD", "BDIR", "CCD", "CMOS", "ID", "IUT", "PEG", "JPEG-LS", "JPEG2000",

## **15 abbreviations such as "MIR", "NIR", "RGB ", "UTC", "VIS", "XML" (see Chapter 4);**

- e) Changed the relevant expression of "conformity" (see Chapter 5, Chapter 2 of GB/T 26237.9-2014);
- f) Changed the basic structure of "biometric data record" (see Table 1, 8.1 of GB/T 26237.9-2014);

g) Change the "vascular image recording head" to "universal head", and increase the effective value of the general information (see Table 2, GB/T 26237.9-

**8.2 of.2014);**

h) Change the "vascular image header" to "presentation header", and increase the effective value of each specific information (see Table 3, GB/T 26237.9-2014

8.3);

i) The content of "presentation length" has been added (see 8.3.2);

j) Deleted the "collection time table" (see 8.3.1 of GB/T 26237.9-2014);

k) Added "extended data" content (see 8.4);

l) Added "Registration Format Type Identifier" (see Chapter 9);

m) Added "XML-encoded conformity test assertions" (see C.4);

n) Change "example of blood vessel image data package" to "example of palm vein image data record" (see Table D.1, GB/T 26237.9-2014

Table B.1 of GB/T 26237.9-2014), added "example of finger vein image data recording" (see Table D.2, see GB/T 26237.9-2014

Table D.1);

o) Added "XML Schema Definition" (see Appendix E).

Compared with GB/T 32903-2016, except for structural adjustment and editorial changes, the main technical changes of this document are as follows.

a) Added the clarification clause of the conformity test in the scope (see Chapter 1);

b) Added three terms and definitions such as "centroid" (see 3.1), "back surface" (see 3.2), and "vascular biometric image" (see 3.3);

c) Deleted "acquisition" (see 3.1 of GB/T 32903-2016), "raw image" (see 3.2 of GB/T 32903-2016),

Three terms and definitions such as "gray dynamic range" (see 3.3 of GB/T 32903-2016);

d) Added 8 abbreviations such as "BDIR", "ID", "IUT", "MIR", "NIR", "nm", "VIS", "XML" (see Chapter 4);

e) the abbreviation "ppi" was deleted (see Chapter 4);

f) The relevant expressions of "conformity" have been added (see Chapter 5);

g) Added "Registration Format Type Identifier" (see Chapter 9);

h) Added "Conformity Test Method" (see Appendix C);

i) Added "example of palm vein image data recording" (see D.1);

j) Added "XML Schema Definition" (see Appendix E);

k) Added "XML Coding Example" (see Appendix F).

This document is modified to adopt ISO /IEC 19794-9:2011 "Information Technology Biometric Data Interchange Format Part 9: Blood

Pipe Image Data".

Compared with ISO /IEC 19794-9:2011, this document has more structural adjustments, and the structure number changes between the two documents are compared

See Appendix A for a list.

Compared with ISO /IEC 19794-9:2011, this document has many technical differences.

Marked with a vertical single line (|), see Appendix B for a list of these technical differences and their reasons.

This document will ISO /IEC 19794-9:2011/CORR1:2012 "Information Technology Biometric Data Interchange Format Part 9"

Section. Technical Corrigendum of Vascular Image Data, ISO /IEC 19794-9:2011/AMD1:2013 "Information Technology Biometric Data Exchange

Amendment 1 to Format Change Part 9: Vascular Image Data, ISO /IEC 19794-9:2011/AMD2:2015 "Information Technology Biometric Data Exchange

Amendment 2 of Feature Recognition Data Interchange Format Part 9: Vascular Image Data was incorporated into the corresponding clauses, and in the modified clauses

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Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

## Introduction

GB/T 26237 "Information Technology Biometric Data Interchange Format" supports the exchange between biometric applications and systems

Interoperability and data exchange, specifying the biometric data exchange format for different biometric modes, in line with

The parties to the biometric data exchange format specified in GB/T 26237 can decode each other's biometric data, thereby

Meet the complex requirements of applying biometric technology to a variety of applications.