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

GB/T 45284.6-2025

**Information technology - Extensible biometric data interchange
formats - Part 6: Iris image data
(English Translation)**

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Reference

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 6 of GB/T 45284 "Information technology - Extensible biometric identification data exchange format".

GB/T 45284 has published the following parts.

- Part 1: Framework;
- Part 4: Fingerprint image data;
- Part 5: Face image data;
- Part 6: Iris image data;
- Part 9: Vascular image data;
- Part 16: Full body image data;
- Part 17: Gait image sequence data.

This document is equivalent to ISO/IEC 39794-6:2021 "Information technology - Extensible biometric data exchange format Part 6 Part. Iris Image Data.

Introduction

GB/T 45284 establishes an extensible biometric data exchange format and defines the basic rules, Common data elements and data structures, basic test methods; for different biometric recognition modalities, scalable the data element definitions, data formats, test methods, and application guidelines for typical application scenarios of the data exchange format are provided.

GB/T 45284 "Information Technology Extensible Biometric Identification Data Exchange Format" is intended to consist of seventeen parts.

--- Part 1: Framework. The purpose is to establish rules, guidelines, common data elements, Common data structures and compliance testing methods.

--- Part 2: Fingerprint detail point data. The purpose is to establish an extensible fingerprint detail point data record exchange format and Compliance test methods.

--- Part 3: Fingerprint data. The purpose is to establish an extensible fingerprint data record exchange format and conform to Sex testing method.

--- Part 4: Fingerprint image data. The purpose is to establish an extensible fingerprint image data record exchange format and conform to Sex testing method.

--- Part 5: Face image data. The purpose is to establish an extensible face image data record exchange format and conformity Sex testing method.

--- Part 6: Iris image data. The purpose is to establish an extensible iris image data record exchange format and conformity Sex testing method.

--- Part 7: Signature/signature time series data. The purpose is to establish an extensible signature/signature data record Interchange formats and conformance testing methods.

--- Part 8: Fingerprint skeleton data. The purpose is to establish an extensible fingerprint skeleton data record exchange format and conform to Sex testing method.

--- Part 9: Vascular image data. The purpose is to establish an extensible data record exchange format for vascular image data and Compliance test methods.

--- Part 10: Hand shape profile data. The purpose is to establish an extensible data record exchange format for hand shape profile data and Compliance test methods.

--- Part 11: Processed signature/signature dynamic data. The purpose is to establish an extensible processed signature/signature dynamic Data record exchange format and compliance test method for dynamic data.

--- Part 12: Facial feature data. The purpose is to establish an extensible facial feature data record exchange format and conformity Sex testing method.

--- Part 13: Sound data. The purpose is to establish an extensible sound data record

exchange format and conformity test method.

--- Part 14: DNA data. The purpose is to establish an extensible DNA data record exchange format and conformance test Try method.

--- Part 15: Palmprint image data. The purpose is to establish an extensible data record exchange format for human palmprint images and Compliance test methods.

--- Part 16: Whole body image data. The purpose is to establish an extensible whole body image data record exchange format and conformity Test method.

--- Part 17: Gait image sequence data. The purpose is to establish an extensible data record exchange format for gait image sequences.

format and compliance test methods.

As one of the biometric images, iris images have been used to verify personal identity.

In the application of authentication, an exchangeable digital iris image data format is needed to achieve interoperability, which is very necessary.

In order to standardize this interoperability, the International Standards Organization ISO/IEC compiled and published the first generation of iris maps from 2005 to 2007.

ISO/IEC 19794-6:2006 Biometric Data Exchange Format Part 6: Iris Image Data According to the "my country Iris Image Data Exchange Report", the standard has been transformed into the recommended national standard GB/T 26237.6-2014.In.2011, the second generation of iris image data was exchanged.

The exchange format was published in the second edition of ISO/IEC 19794.The second generation iris image data exchange format ISO/IEC 19794-6:2011 New useful data elements, such as those related to the quality of iris samples, have been added to all parts of the ISO/IEC 19794 series.

The header data structure was harmonized in, and XML encoding was added in addition to binary encoding.

Based on the limitations of the overall design of the ISO/IEC 19794 series of standards, ISO/IEC 19794-6:2006 is different from ISO/IEC 19794-6.

2011 is not compatible, which brings difficulties to the expansion of products applicable to ISO/IEC 19794-6:2006 to support ISO/IEC 19794-6:2011.

The obstacle.

Taking into account the future need for additional data elements and to avoid future compatibility issues, ISO/IEC JTC1/SC37 developed as the third generation biometric data exchange format, ISO/IEC 39794 series defines an extensible biometric data conversion format that can the standard includes future extensions in a defined manner. Part 6 is