

ICS 35.240.15

CCS L71



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

GB/T 26237.13-2023

**Information technology - Biometric data interchange formats -
Part 13: Voice data**

信息技术 生物特征识别数据交换格式 第13部分：声音数据

Issued on: May 23, 2023

Implemented on: December 1, 2023

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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 13 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 11: Processed signature, signature dynamic data;
- Part 13: Sound data;
- Part 14: DNA data;

1 Scope

GB/T 26237.13-2023 is Part 13 of the Chinese series on biometric data interchange formats, and covers voice data. Voice is the biometric that arrives over a channel rather than from a sensor: the same speaker sounds different on a landline, a mobile and a

conference microphone, and the format has to record enough about the capture and the coding for a comparison made later to be meaningful. It also has to accommodate both raw audio and the parametric representations that speaker recognition systems actually work on. The standard sets the registered format type identifiers, the common voice data interchange format with its conventions, the voice record general header, the speech representation header and data, the modes and worked examples, with a normative annex giving the conformance test method. It took effect on 1 December 2023.

This document specifies a data interchange format that can be used for the storage, recording and transmission of human digitized acoustic data (speech), which From a single speaker in a single session: This data format is used in various Speaker Identification and Verification (SIV) applications, including text-dependent It is text-independent and makes minimal assumptions about the data collection conditions or collection environment: Use data encapsulated in this format for other purposes It is possible, for example, with automatic speech recognition (ASR), but this is beyond the scope of this document: This document also does not deal with voiceprint features or Data processing at the voiceprint model level does not involve specific application requirements, equipment or features: This document supports non-standard extended data, supports Collected raw data and digitally processed (enhanced) sound data: Any processing of raw input needs to be documented and contain In the metadata associated with the speech representation: This document does not deal with data flow technology: This document does not address time-stamping of stored and transmitted biometric data, nor does it address the use of encryption techniques to protect biometric data: authenticity, integrity and confidentiality of data: Information conforming to the format specified in this document can be recorded on machine-readable media, and can also be transmitted between systems through data communications: This document gives the clauses defined by the XML Schema after the clauses describing the common sound data exchange format: This document contains terms commonly used in the fields of speech recognition and speaker recognition, as well as terms from other ISO standards:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB/T 7408-2005 Data elements and exchange formats Information exchange date and time representation (

ISO 8601:2000, IDT) cabulary-Part 37:Biometrics)

GB/T 5271.37-2021 Information Technology Vocabulary Part 37: Biometric Identification

(ISO /

IEC 2382-37:2017, MOD) ISO / IEC 19785-

1 Information technology public biometric identification exchange format framework - Part 1:
Data element specification (Information)

GB/T 28826:1-2012 Information Technology Public Biometric Identification Interchange
Format Framework Part 1: Data Element Specification (ISO /

IEC 19785-1:2006, MOD) ISO / IEC 19794-

1 Information technology biometric data exchange format Part 1: Framework
(Informationtech-

GB/T 26237:1-2022 Information Technology Biometric Data Interchange Format Part 1:
Framework (ISO / IEC 19794-1:2011, MOD)

3 Terms and Definitions

The following terms and definitions apply to this document: