
**Information technology — Biometric
data interchange formats —**

**Part 13:
Voice data**

*Technologies de l'information — Formats d'échanges de données
biométriques —*

Partie 13: Données relatives à la voix

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	5
5 Conformance	6
6 Processes and identifiers	7
6.1 Capture processes and utterances	7
6.1.1 Introduction	7
6.1.2 Voice utterance	7
6.1.3 Structure of a capture process	7
6.2 Registered format type identifiers	9
7 General voice data interchange format (BDB)	9
7.1 Overview	9
7.2 Conventions	10
7.3 Voice record general header	10
7.3.1 Overview	10
7.3.2 Version	11
7.3.3 Session ID	11
7.3.4 Channel	11
7.3.5 Capture device	12
7.3.6 Transducer	12
7.3.7 Audio meta information	13
7.3.8 Capture process protocol	14
7.3.9 Extended vendor data	14
7.4 Voice representation header	14
7.4.1 Overview	14
7.4.2 Date and time	14
7.4.3 Audio content	15
7.4.4 Quality information	17
7.4.5 Signal enhancement	18
7.4.6 Extended vendor data	19
7.5 Voice representation data	19
7.6 Schema	19
7.7 Example	23
Annex A (normative) Conformance testing methodology	25
Bibliography	26

Foreword

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Introduction

This document assumes that the voice data interchange record is to be attributed to a single individual and recorded in a single session. Voice data is a time record of audible, acoustic vibrations produced by a human in the course of a verbal interaction and will generally contain both speech and non-speech vocal sounds, as well as non-vocal sounds to be considered “noise” in this context. In addition to serving the linguistic function of semantic information transfer, voice data contains both acoustic and semantic information that can be used to recognize speakers. It is the collection, storage and transmission of voice data containing speech for the purpose of recognizing individuals that is the focus of this document.

This format is designed specifically to support a wide variety of automatic speaker recognition applications, including both text-dependent and text-independent Speaker Identification and Verification (SIV) and enrolment, with minimal assumptions made regarding the voice data capture conditions or the collection environment. This document is intended to be sufficiently general that speaker recognition applications beyond traditional SIV could also be supported, such as linking utterances to the same unknown speaker, and determining that a known speaker is not the source of an utterance. The differentiation between speech used to create the reference for future comparisons (which in some applications is called “enrolment”), and that used to create voice representations (VRs) queried against the references, might occur only at the point of application, thus requiring each stored speech record to potentially support either reference or query creation. Further, automated speaker recognition might incorporate related technologies, such as speech and language recognition, not only in current algorithms and applications, but in future ways that cannot be anticipated. Therefore, this document is written from a very broad perspective with the intent of supporting the broadest possible range of speaker recognition applications and technical approaches.

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