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## Information technology — Cross jurisdictional and societal aspects of implementation of biometric technologies — Biometrics and children

*Technologies de l'information — Aspects pangouvernementaux et pansociétaux de l'implémentation des technologies biométriques — Biométrie et enfants*

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## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/IEC JTC 1, *Information technology, SC 37, Biometrics*.

## Introduction

In the growing involvement of children in biometric systems, several issues concerning their use of biometrics appear more critical than to adults.

Most problems rely on the physical and psychological immaturity of children. The bodies of children are still in a growing phase and this may cause difficulties in the biometric capture and comparison processes. For the children themselves, the usability of a biometric system becomes a crucial factor.

On the other hand, their psychological immaturity implies that there could be situations where parent(s) or legal representative(s) have to support them to use biometric systems, especially when data protection or privacy issues are involved.

In this Technical Report, the definition of “child” is considered from the applicative point of view in [Clause 5](#). In [Clause 6](#), studies on biometrics for children are surveyed for certain modalities because the application of biometrics is heavily dependent on the modality. [Clause 7](#) introduces examples of application of biometrics that are typical to children and present clear benefits. Finally, [Clause 8](#) summarizes various elements concerning the protection of children when using biometric systems with particular reference to data protection and psychological concerns.

Examples of the benefits to be gained by using the Technical Report are the following:

- operational support in using biometrics applied to the context of children;
- enhanced acceptance by subjects of systems (children, parents and legal representatives, tutors,...) using biometric technology;
- improved public perception and understanding of these systems;
- smoother introduction and operation of these systems;
- adoption of commonly approved good privacy practice.

The primary stakeholders are identified as follows:

- parents and legal representatives;
- users of the biometric data;
- developers of technical standards;
- subjects who provide the biometric sample;
- requirements analysts;
- system architects;
- IT designers;
- public policy makers.

Any jurisdiction of the country for which the biometric system is intended to shall be considered.

# Information technology — Cross jurisdictional and societal aspects of implementation of biometric technologies — Biometrics and children

## 1 Scope

This Technical Report builds upon the general recommendations given in ISO/IEC TR 24714-1.

It provides guidance for users (as defined in ISO/IEC 2382-37) of biometric recognition systems on specific requirements in relation to deployments when children are included as subjects in the biometric process.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 2382-37, *Information technology — Vocabulary — Part 37: Biometrics*