# TECHNICAL REPORT

# ISO/IEC TR 30117

# Information technology — Standards and applications for the integration of biometrics and integrated circuit cards (ICCs)

*Technologies de l'information — Normes et applications pour l'intégration des données biométriques et cartes à circuits intégrés*

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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.

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).

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).

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 www.iso.org/iso/foreword.html.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and security devices for personal identification*.

This second edition cancels and replaces the first edition (ISO/IEC TR 30117:2014) which has been technically revised.

The main changes compared to the previous edition are as follows:

— Addition and update of references to the related projects in all relevant standardization bodies.

— Addition to the Scope, to include not only on-card biometric comparison, but all other interactions of biometrics and integrated circuit cards (ICCs).

— Addition of the example of the ePassport, which is a widely-deployed application using off-card biometric comparison.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national -committees.

# Introduction

There are a large number of applications where the need for implementing jointly integrated circuit cards (ICC) and biometrics can arise. In those cases, system designers and integrators need to be aware of the range of international standards and technical reports that are applicable. All of these potential reference documents have been developed by different standardization bodies and committees. ISO/IEC JTC1 (Joint Technical Committee) subcommittees develop standards in the following areas:

ICCs:

ISO/IEC JTC 1 SC 17 (*Information technology — Cards and security devices for personal identification*)

Security aspects:

ISO/IEC JTC 1 SC 27 (*Information technology — Information security, cybersecurity and privacy protection*)

Biometrics:

ISO/IEC JTC 1 SC 37 (*Information technology — Biometrics*)

Other regional or sectoral standardization bodies are also applicable.

In this context, the system designer and developer have a large number of documents at their disposal, but with little information about which of them is really applicable. There are no general rules, as depending on the application, different alternatives are available.

This document provides information on the published documents and relates them to the kind of application to be developed. When referring to different applications, these will be classified attending to the verification needs of the application, not to the final sector where the application is to be deployed.

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Interactions among standards cover different implementation levels, from data formats to be used to the application profiles, including application programming interfaces (APIs) and security mechanisms.

This document places special emphasis on providing recommendations and policies needed by developers to integrate the use of both biometrics and ICCs in applications.

The structure of this document is as follows:

— Clause 5 provides a first overview to the different decisions that have to be taken when developing an application that can involve the use of ICCs and biometrics.

— Clauses 6 to 10 provide an overview to the different International Standards and Technical Reports that can be applicable to the application to be developed.

— Clause 11 provides examples of implementations that can be used by application designers and developers as guidelines.

All ISO/IEC documents mentioned in this document are listed in the Bibliography at the end of this document.

NOTE        Future editions of this document will add more information about Biometric System-on-Card technology and the use of the PBO command.