Draft for Public Comment

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Interested committees:

Title: BS EN ISO/IEC 17839-3 Draft Information technology - Biometric System-on-Card. Part 3: Logical information interchange mechanism.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

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- All comments should be submitted online at **https://standardsdevelopment.bsigroup.com/**. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex **(e.g. 3.1)**	Paragraph/ Figure/Table/Note	**Type of comment**	**Commend (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations on each comment submitted**
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

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DRAFT International Standard

ISO/IEC DIS 17839-3

ISO/IEC JTC **1**/SC **17**

Secretariat: **BSI**

Voting begins on:
2025-08-04

Voting terminates on:
2025-10-27

Information technology — Biometric System-on-Card —

Part 3: Logical information interchange mechanism

Technologies de l'information — Système biométrique sur carte —

Partie 3: Mécanisme d'échange de l'information logique

ICS: 35.240.15

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 ISO documents 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 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 of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (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, Subcommittee SC 17, *Identification cards*.

This second edition cancels and replaces the first edition (ISO/IEC 17839-3:2016), which has been technically revised.

The main changes are as follows:

— aligned with ISO/IEC 24787-1:2024

— improved terms and definitions

— restructured feedback messaging

— corrected feedback message format and examples

— introduced autonomous enrolment in Annex F

— updated all figures

— updated Annex A and Annex C

A list of all parts in the ISO/IEC 17839 series can be found on the ISO website.

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.

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Introduction

A Biometric System-on-Card (BSoC) is a portable card-sized device including the following entities: biometric capture, image/signal processing, storage, comparison, decision, and action. The use of a BSoC with such specifications is subject to an information flow and security mechanisms, which are detailed in this document.

ISO/IEC 17839-1 describes two types of BSoC. Type ID-1 is a fully flexible card compliant with ISO/IEC 7810. Type ID-T deviates from some of the requirements of size and flexibility, while keeping the rest of the requirements intact, including the use of a contactless ICC interface. The logical interface and security mechanisms are independent on whether the BSoC is of type ID-1 or type ID-T, so the specifications stated in this document are applicable to both types of BSoC.

ISO/IEC 17839 series is organized in 3 separate documents:

— ISO/IEC 17839-1 Biometric System-on-Card – Core requirements

— ISO/IEC 17839-2 Biometric System-on-Card – Physical characteristics

— ISO/IEC 17839-3 Biometric System-on-Card – Logical information interchange mechanism (this document)

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Information technology — Biometric System-on-Card —

Part 3:
Logical information interchange mechanism

1 Scope

This document specifies

— logical data structures for a BSoC,

— enrolment procedures, and

— usage of commands and data structures defined in other ISO standards for BSoC.

This document does not define requirements for

— commands and data structures that apply to devices external to a BSoC, and

— commands and data structures that apply to logical interfaces inside a BSoC.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. 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*

ISO/IEC 7816-3, *Identification cards — Integrated circuit cards — Part 3: Cards with contacts — Electrical interface and transmission protocols*

ISO/IEC 7816-4, *Identification cards — Integrated circuit cards — Part 4: Organization, security and commands for interchange*

ISO/IEC 7816-11, *Identification cards — Integrated circuit cards — Part 11: Personal verification through biometric methods*

ISO/IEC 14443-4, *Cards and security devices for personal identification — Contactless proximity objects — Part 4: Transmission protocol*

ISO/IEC 18328-3, *Identification cards — ICC-managed devices — Part 3: Organization, security and commands for interchange*

ISO/IEC 24787-1, *Information technology — On-card biometric comparison — Part 1: General principles and specifications*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 2382-37 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

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