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Information technology — Biometric System-on-Card —

Part 2:
Physical characteristics

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Partie 2: Caractéristiques physiques

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Foreword

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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).

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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*, Subcommittee SC 17, *Cards and personal identification*.

ISO/IEC 17839 consists of the following parts, under the general title *Information technology — Biometric System-on-Card*:

— *Part 1: Core requirements*

— *Part 2: Physical characteristics*

— *Part 3: Logical information interchange mechanism*

This corrected version of ISO/IEC 17839-2:2015 incorporates the following corrections plus other minor editorial modifications.

6.3.1, 2nd paragraph:

"e.g." was added to the first sentence as well as "^{2}" on "in" and "mm": "The minimum size of an area sensor shall be 169 mm^2 (e.g. 13 × 13 mm^2 or 0.512 × 0.512 in^2)."

In 6.3.4, 2nd paragraph and 6.3.4, the decimal point replaces the decimal comma for all instances of "in":

"In the case of a swipe sensor, the effective area of fingerprint capture is bigger than the sensor size. A swipe sensor shall have a minimum width of 13 mm (0.512 in)."

6.3.4

The size of the signing pad is limited by ergonomics and cultural differences in the signing process, as different societies have different understanding on how a signature should be done. A minimum area of 35 × 35 mm^2 (1.378 × 1.378 in^2) shall be allowed for the signing pad.

Introduction

A Biometric System-on-Card (BSoC) is an integrated circuit card (ICC) with full biometric capabilities as defined in ISO/IEC 17839-1. The implementation of an ICC with such specifications is subject to a number of physical constraints, which are detailed in this part of ISO/IEC 17839. Therefore, this part provides the specifications for both types, S1 and S2 BSoC.

Type S1 is defined in ISO/IEC 17839-1 as the fully compatible ISO/IEC 7810 ID-1 card. The specifications for this type of BSoC are limited to those related to the location of the biometric capture device, the ergonomics, as well as to stating certain limitations on the use of certain technologies such as not allowing embossing on this type of card.

Type S2 is defined as being identical to the ID-T specifications in ISO/IEC 18328-2.