INTERNATIONAL STANDARD

1SO/IEC 7810

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Identification cards — Physical characteristics

AMENDMENT 1: Criteria for cards containing integrated circuits

Cartes d'identification Caractéristiques physiques

AMENDEMENT 1: Critères pour les cartes contenant des 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. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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.

Amendment 1 to ISO/IEC 7810:2003 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

It reflects a transfer of certain physical requirements from integrated circuit card standards (primarily ISO/IEC 14443-1).

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Identification cards — Physical characteristics

AMENDMENT 1: Criteria for cards containing integrated circuits

"7. Criteria for cards containing certain types of integrated circuit have been added."

Page 1, Clause 3

Add the following to the "

ISO/IEC 10373-3, Identification cards — Test methods -Part 3 Integrated circuit cards with contacts and related interface devices

ISO/IEC 10373-6, Identification cards — Test methods Part 6: Proximity cards

ISO/IEC 10373-7, Identification cards — Test methods

Page 6

Add the following new clause after 8.14

Criteria for cards containing integrated circuits

The following characteristics only apply to cards containing integrated circuits (ICs).

The card shall continue to operate as intended after exposure of any card surface to medium-energy X-radiation as described in the test methods in ISO/IEC 10373-1, with energy in the range of 70 keV to 140 ke of a cumulative dose of 0,1 Gy per year.

NOTE This corresponds to approximately twice the maximum acceptable dose to which humans may be exposed annually.

9.2 Dynamic bending stress

When subjected to a total of 1 000 bending cycles, the card shall remain testably functional and shall not show any cracked part after testing the card in accordance with the test methods described in ISO/IEC 10373-1.

9.3 Dynamic torsional stress

When subjected to a total of 1 000 torsion cycles, the card shall remain testably functional and shall not show any cracked part after testing in accordance with the test methods described in ISO/IEC 10373-1.

Static electricity

9.4.1 Contact IC cards

The card shall not be damaged in normal use by a person charged with static electricity.

The performance of the card shall not be degraded by exposure to a static discharge in accordance with the test methods described in ISO/IEC 10373-3 between any contact and ground of a voltage of 2 kV through a resistance of 1 500 ohm from a capacitor of 100 pF.

9.4.2 Contactless IC cards

The card shall continue to operate as intended after testing in accordance with the static electricity test

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