

First edition
2008-10-01

AMENDMENT 1
2014-04-01

**Identification cards — Integrated
circuit card programming
interfaces —**

**Part 2:
Generic card interface**

AMENDMENT 1

*Cartes d'identification — Interfaces programmables de cartes à
puce —*

Partie 2: Interface de carte générique

AMENDEMENT 1

IECNORM.COM : Click to view the full PDF of ISO/IEC 24727-2:2008/AMD1:2014

Reference number
ISO/IEC 24727-2:2008/Amd.1:2014(E)



IECNORM.COM : Click to view the full PDF of ISO/IEC 24727-2:2008/AMD1:2014



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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 24727-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

IECNORM.COM : Click to view the full PDF of ISO/IEC 24727-2:2008/AMD1:2014

IECNORM.COM : Click to view the full PDF of ISO/IEC 24727-2:2008/AMD1:2014

Identification cards — Integrated circuit card programming interfaces —

Part 2: Generic card interface

AMENDMENT 1

Page 2, Clause 3

Insert the following new terms and definitions and renumber the current 3.3 as 3.5:

3.3

legacy card

integrated circuit card which is not personalized for the ISO/IEC 24727 standard

3.4

procedural element

software that can be accessed to provide manipulation of specific interface commands within a processing layer

cf. **translation code**

Page 4, 5.1.3

Add the following row at the end of Table 2:

ENVELOPE	'C3'	A	None
----------	------	---	------

Page 13

Add the following new subclause at the end of Clause 6:

6.5 Discovery Mechanism for Legacy Cards

Cards in the field for which post-issuance personalization may turn too expensive require a practical means to fit easily in a ISO/IEC 24727 framework. To leverage access for these legacy-cards to ISO/IEC 24727 enabled e-services (client-application), card issuers may deliver to Service Providers a card discovery registry respective to each type of card so that to have it recognized at bootstrap. In relation to this card discovery registry, either an ACD or ISO/IEC 7816-15 based or XML-based CardInfo shall be made available to the service provider for a whole description of card capabilities involved in the transaction with the ISO/IEC 24727 enabled client-application.

ASN.1 definition for legacy-card discovery

6.5.1 The CardDiscovery Module

```
ISO24727-2-CardDiscovery {iso(1) standard(0) iso24727(24727) part2(2) annexY(Y) }
-- Version 1.2, 15-Dec-2010
-- annex Y to be defined
--
DEFINITIONS AUTOMATIC TAGS EXTENSIBILITY IMPLIED ::=
BEGIN
```

ISO/IEC 24727-2:2008/Amd.1:2014(E)

```
--EXPORTS (all)
IMPORTS URL
FROM ISO24727-COMMON { iso(1) standard(0) iso24727(24727) };
-- Major and Minor Revision values for this ASN.1 Module
revMajISO24727-2-CardDiscovery INTEGER ::= 1
revMinISO24727-2-CardDiscovery INTEGER ::= 2

-- 1. Data Types

cardType ::= CardType
CardType ::= SEQUENCE {
    atr    ATR OPTIONAL,
    ats    ATS OPTIONAL,
    efATRorINFO EFATRorINFO OPTIONAL,
    efDIR    EFDIR OPTIONAL,
    apduCRP SEQUENCE OF APDUCRP OPTIONAL,
    CardRegistryLocation URL,
}

-- ref. ISO/IEC 7816-3
ATR ::= SEQUENCE {
    tsByte TS,
    atrt0Byte T0ATR,
    atrInterfaceBytes ATRInterfaceBytes OPTIONAL,
    historicalBytes HistoricalBytes OPTIONAL,
    tckByte TCK
}

-- ref. ISO/IEC 14443-4
ATS ::=SEQUENCE{
    tlByte TL,
    atst0Byte T0ATS OPTIONAL, -- only present if TL>1
    atsInterfaceBytes ATSInterfaceBytes OPTIONAL,
    historicalBytes HistoricalBytes OPTIONAL,
    crc1Byte CRC1,
    crc2Byte CRC2
}

TS ::= BitMask
T0ATR ::= BitMask
ATRInterfaceBytes ::= BitMask
TCK ::= BitMask
TL ::= BitMask
T0ATS ::= BitMask

ATSInterfaceBytes ::=SEQUENCE{
    ta1 TA1 OPTIONAL,
    tb1 TB1 OPTIONAL,
    tc1 TC1 OPTIONAL
}

TA1 ::= BitMask
TB1 ::= BitMask
TC1 ::= BitMask

HistoricalBytes ::= BitMask
CRC1 ::= BitMask
CRC2 ::= BitMask

BitMask ::=SEQUENCE{
    outputValue OCTET STRING,
    maskToApply OCTET STRING,
    operationToApply ENUMERATED {xor(0),and(1), or(2), not(3)}
}

EFATRorINFO ::= CHOICE {
    apduCRP SEQUENCE OF APDUCRP,
    bitMask BitMask
}

EFDIR ::= CHOICE {
```