

Third edition
2013-04-15

AMENDMENT 1
2018-08

Identification cards — Integrated circuit cards —

Part 4:

**Organization, security and commands
for interchange**

iT AMENDMENT 1: Multiple record
handling
(<https://standards.iteh.ai>)

Document Preview
Cartes d'identification — Cartes à circuit intégré —
Partie 4: Organisation, sécurité et commandes pour les échanges
AMENDEMENT 1: Manutention multiple record
[ISO/IEC 7816-4:2013/Amd.1:2018](https://standards.iteh.ai/catalog/standards/iso/5ccfd37-a8b4-4281-a04f-9aba402d58dc/iso-iec-7816-4-2013-amd-1-2018)

iTeh Standards

(<https://standards.iteh.ai>)

Document Preview

[ISO/IEC 7816-4:2013/Amd 1:2018](#)

<https://standards.iteh.ai/catalog/standards/iso/5ccfd37-a8b4-4281-a04f-9aba402d58dc/iso-iec-7816-4-2013-amd-1-2018>



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: 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.

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 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 the following URL: www.iso.org/iso/foreword.html.

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

[ISO/IEC 7816-4:2013/Amd.1:2018](http://www.iso.org/iso/foreword.html)

<https://standards.iteh.ai/catalog/standards/iso/5ccfd37-a8b4-4281-a04f-9aba402d58dc/iso-iec-7816-4-2013-amd-1-2018>

Identification cards — Integrated circuit cards —

Part 4: Organization, security and commands for interchange

AMENDMENT 1: Multiple record handling

Page 17, Table 6

Replace text in the “Meaning” column for SW1 = ‘62’ and SW2 = ‘87’ with the following:

At least one of the referenced records is not processed for some reason, e.g. record deactivated, security status not satisfied or conditions of use not satisfied.

Page 74, 11.3.2, second paragraph, third sentence

Replace the description in parentheses with the following:

At least one of the referenced records is not processed.

Page 74, 11.3.2, NOTE

Replace the text of the NOTE with the following:

If the number of records exceeds the numbering range ('01' to 'FE') of the record handling command, records can be handled, e.g. by using next occurrence option of the record identifier, or by using multiple record handling with record number DO'02'.

Page 74, 11.3.2, sixth paragraph

Replace the text in P2 with the following:

P2 — If bits b8 to b4 are not all equal, these bits are a short EF identifier according to Table 69 and bits b3 to b1 depend upon the command. If bits b8 to b1 are set to 1111000 (i.e. P2 = ‘F8’), P2 indicates multiple record handling (for details, see 11.3.3 to 11.3.10).

Page 74, Table 69

Replace Table 69 and its title with the following:

Table 69 — Coding of P2

b8	b7	b6	b5	b4	b3	b2	b1		Meaning
0	0	0	0	0	—	—	—	Current EF	
Not all equal					—	—	—	Short EF identifier (a number from one to thirty)	
1	1	1	1	1	0	0	0	Multiple record handling (for details, see 11.3.3 to 11.3.10)	
1	1	1	1	1	Not all zero		RFU		

Page 74, 11.3.2

Add the following paragraph after the last paragraph:

In the multiple record handling option of this command group, SW1-SW2 set to ‘6287’ indicates that some command processes are done and others are not (e.g. some addressed records are read

but others are not). SW1-SW2 set to '6F00' indicates that all command processes are not completed for different reasons (e.g. record deactivated, security status not satisfied).

Page 75, 11.3.3

Add the following paragraphs before Table 70:

If INS = 'B2' and bits b8 to b1 of P2 are set to 11111000 (i.e. P2 = 'F8'), then this command may read multiple records in different EFs. The command data field contains one or more record handling DO'7F76' each containing one file reference DO'51' and one or more integer DO'02'. The value field of DO'51' contains a file identifier or a short EF identifier indicating the record structure EF under current DF. This field may also contain a relative path or an absolute path. The value field of DO'02' is a record number to be read from the file referenced by DO'51'. DO'02' may indicate record number over 254. For each DO'02' under DO'7F76' in the command data field, the response data field contains a corresponding DO'53' or DO'04'. If the addressed record is readable (i.e. record exists, record is activated and security status satisfies the security attributes) then the corresponding DO'53' contains the entire record. When present, a DO'53' denotes an implicit normal processing without corresponding status bytes, i.e. '9000'. Otherwise the corresponding DO'04' contains value of status bytes defined in Table 5 and 6 indicating why the record data is not read. If at least one addressed record is not read, the status bytes '6287' shall be returned. The VA and the record pointer shall not be changed in case P2 = 'F8'.

If INS='B2' and P2 = 'F8' and the command data references missing files or files with incompatible file structure or missing record(s), the command shall be aborted with the respective return code from table 5 or 6 (e.g. command incompatible with file structure '6981', file not found '6A82', record not found '6A83', etc.).

Page 75, Table 70

(<https://standards.iteh.ai>)

Replace the two rows in 'Data field' with the following:

Data field	INS = 'B2' and bits b8 to b1 of P2 set to 11111000	One or more record handling DO'7F76'
	INS = 'B2' and bits b8 to b1 of P2 not set to 11111000	Absent
	INS = 'B3'	Offset DO

Data field	INS = 'B2' and bits b8 to b1 of P2 set to 11111000	One or more discretionary data DO'53' and/or DO'04' containing value of status bytes.
	INS = 'B2' and bits b8 to b1 of P2 not set to 11111000	Data read
	INS = 'B3'	Discretionary DO for encapsulating the data read