
Identification cards — Integrated circuit cards —

Part 4: Organization, security and commands for interchange

AMENDMENT 1: Multiple record handling

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.iso.org/iso/7816-4:2013/Amd.1:2018)

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Published in Switzerland

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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

<https://standards.iteh.ai/catalog/standards/iso/5cccf37-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 11111000 (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

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