



**INTERNATIONAL STANDARD ISO/IEC 7816-4:2013**  
**TECHNICAL CORRIGENDUM 1**

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION  
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**Identification cards — Integrated circuit cards —**  
**Part 4:**  
**Organization, security and commands for interchange**

TECHNICAL CORRIGENDUM 1

*Cartes d'identification — Cartes à circuit intégré —*

*Partie 4: Organisation, sécurité et commandes pour les échanges*

*RECTIFICATIF TECHNIQUE 1*

Technical Corrigendum 1 to ISO/IEC 7816-4:2013 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

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**1 Clause 5.2, §3, last line**

Replace the use of extended L fields  
by the use of extended length fields

**2 Clause 5.6, Tables 4.1, 4.2, row ENABLE VERIFICATION REQUIREMENT, last column**

Replace 0  
by 11.5.8

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**3 Clause 5.6, Tables 4.1, 4.2, row WRITE BINARY, last column**

Replace 0  
by 11.2.4

**4 Clause 5.6, Tables 4.1, 4.2**

Replace ACTIVATE RECORD  
by ACTIVATE RECORD (s)

**5 Clause 5.6, Tables 4.1, 4.2**

Replace DEACTIVATE RECORD  
by DEACTIVATE RECORD (s)

**6 Clause 6.1, NOTE, two occurrences**

Replace simple-tlv  
by SIMPLE-TLV

**7 Clause 7.4.3, Table 10, row DO'8D', third column**

Replace (see 0)  
by (see 10.3.3)

**8 Clause 7.4.5, Table 11, footnote of table**

Replace supports at least concurrent access  
by supports concurrent access

**9 Clause 7.4.7, Table 13, footnote of table**

Replace supports at least concurrent access  
by supports concurrent access

**10 Clause 8.4.5, §3, third sentence**

Replace A complete extended header shall be derived by the following procedure:  
by A complete extended header shall be derived from the target DO by the following procedure:

**11 Clause 9.1, §2**

Replace:  
execution on this logical channel a single C-RP or a sequence of C-RPs possibly performing authentication procedures

by:  
execution of one or several C-RP(s) on this logical channel possibly performing authentication procedures

**12 Clause 9.3.2, § below Table 29, first dash**

Replace (see 0)  
by (see 10.3.3)

**13 Clause 9.3.2, Table 30, last column, fifth line**

Replace (see 0)  
by (see 10.3.3)

**14 Clause 9.3.2, § below Table 30, third dash, second line**

Replace (see 0)  
by (see 10.3.1)

**15 Clause 9.3.3.1, § below Table 32, third line**

Replace (see 0)  
by (see 10.3.1)

**16 Clause 9.3.3.3, §3, first line**

Replace (according to 0)  
by (according to 10.3.1)

**17 Clause 9.3.4, §2**

Replace Table 38  
by Table 39

**18 Clause 9.3.6.2, Table 44, eighth row, last column**

Delete the following text: /EXTERNAL AUTHENTICATE for Role<sup>a</sup>

**19 Clause 9.3.6.2, Table 44**

Delete the table footnote.

**20 Clause 9.3.6.4, example 1**

Replace PSO COMPUTE DIGITAL SIGNATURE COMMAND  
by PSO COMPUTE DIGITAL SIGNATURE command

**21 Clause 9.3.6.12, §2, first dash**

Insert a comma such that the text reads:  
contains an OID in a DO'06', that DO'06' shall be ...

**22 Clause 9.3.7, §1, second line**

Replace see 0)  
by see 10.3.3)

**23 Clause 10.3.2, §3, first line**

Replace see 0)  
by see 10.3.3)

**24 Clause 10.3.3, Table 59, fifth row, second column**

Replace (see 0)  
by (see 10.3.1)

**25 Clause 10.3.3, § below Table 59**

Replace the whole § by:

An SE template is applicable to a structure (see clause 7) only if the value of DO'8A' of that SE template matches the LCS of the structure (e.g. see DO'8A' in Table 10). If no DO'8A' is present in an SE template, then that SE template is valid only for the activated operational state.

**26 Clause 11.3.3, Table 70, explanation of P1**

Replace Record number or record identifier ('00' references the current record)  
by Record number or record identifier or '00' referencing the current record

**27 Clause 11.3.4, Table 72, explanation of P1**

Replace Record number ('00' references the current record)  
by Record number or '00' referencing the current record

**28 Clause 11.3.5, Table 74, explanation of P1**

Replace Record number ('00' references the current record)  
by Record number or '00' referencing the current record

**29 Clause 11.3.7, Table 77, explanation of P1**

Replace Record number or record identifier ('00' references the current record)  
by Record number or record identifier or '00' referencing the current record

**30 Clause 11.3.8, Table 80, explanation of P1**

Replace Record number ('00' references the current record)  
by Record number

**31 Clause 11.3.9, Table 82, explanation of P1**

Replace Record number ('00' references the current record)  
by Record number

**32 Clause 11.3.10, Table 84, explanation of P1**

Replace Record number ('00' references the current record)  
by Record number

**33 Clause 11.4.6, §1**

Replace PUT DATA may have  
by Table 91 shows the PUT DATA C-RP. The PUT DATA command may have

**34 Clause 11.5.4, §2**

Insert at the beginning of §2 the following sentences:  
This command has several flavours. Table 97 shows the EXTERNAL AUTHENTICATE C-RP whereas Table 98 shows the C-RP of the MUTUAL AUTHENTICATE function.

**35 Clause 11.5.11, Table 108, second row, second column**

Replace (see 0)  
by (see 10.3.3)

**36 Clause 12.6 and subclauses**

Replace (three occurrences) 7F64  
by 7F74

**37 Annex B.3, §1**

Replace (see 0)  
by (see 10.3.1)

**38 Annex C.2.1**

Add the following note after §4:

NOTE As defined in 10.3.2 within a control reference template a DO'80' is used to transfer a cryptographic mechanism reference. In C.2.2 step 1 and in C.2.3 step 3 purposefully the cryptographic mechanism reference is chosen to be identical to the value of the object identifier describing the authentication protocol by implicit tagging.

**39 Annex C.2.3, Terminal Authentication protocol, step 3**

Remove the last line of command data field showing DO'67' completely.