INTERNATIONAL STANDARD

ISO/IEC 15693-3

Second edition
2009-04-15

AMENDMENT 2
2015-08-15

Identification cards — Contactless integrated circuit cards — Vicinity cards —

Part 3: **Anticollision and transmission protocol**

AMENDMENT 2: Clarification of use of Data Elements

Cartes d'identification — Cartes à circuit(s) intégré(s) sans contact — Cartes de voisinage —

Partie 3: Anticollision et protocole de transmission

AMENDEMENT 2: Clarification de l'usage des éléments de données

Reference number
ISO/IEC 15693-3:2009/Amd.2:2015(E)

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Amendment 2 to ISO/IEC 15693-3:2009 was prepared by Technical Committee ISO/IEC/TC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

Identification cards — Contactless integrated circuit cards — Vicinity cards —

Part 3: Anticollision and transmission protocol

AMENDMENT 2: Clarification of use of Data Elements

Page 25, 10.4.2

Replace:

"If the Option_flag is not set, the VICC shall return its response when it has completed the write operation starting after:

t1nom [4352/*fc* (320,9 µs), see 9.1.1] + a multiple of 4096/*fc* (302 µs) with a total tolerance of ± 32/*fc* and latest after 20 ms upon detection of the rising edge of the EOF of the VCD request.

If it is set, the VICC shall wait for the reception of an EOF from the VCD and upon such reception shall return its response."

with the following text:

"Option_flag definition see 9.5"

Page 26, 10.4.3

Replace:

"If the Option_flag is not set, the VICC shall return its response when it has completed the lock operation starting after:

t1nom [4352/*fc* (320,9 µs), see 9.1.1] + a multiple of 4096/*fc* (302 µs) with a total tolerance of ± 32/*fc* and latest after 20 ms upon detection of the rising edge of the EOF of the VCD request.

If it is set, the VICC shall wait for the reception of an EOF from the VCD and upon such reception shall return its response."

with the following text:

"Option_flag definition see 9.5"

Page 28, 10.4.5

Replace:

"If the Option_flag is not set, the VICC shall return its response when it has completed the write operation starting after:

t1nom [4352/*fc* (320,9 µs), see 9.1.1] + a multiple of 4096/*fc* (302 µs) with a total tolerance of ± 32/*fc* and latest after 20 ms upon detection of the rising edge of the EOF of the VCD request.

If it is set, the VICC shall wait for the reception of an EOF from the VCD and upon such reception shall return its response.“

with the following text:

“Option_flag definition see 9.5”

Page 30, 10.4.8

“If the Option_flag is not set, the VICC shall return its response when it has completed the write operation starting after:

t1nom [4352/*fc* (320,9 µs), see 9.1.1] + a multiple of 4096/*fc* (302 µs) with a total tolerance of ± 32/*fc* and latest after 20 ms upon detection of the rising edge of the EOF of the VCD request.

If it is set, the VICC shall wait for the reception of an EOF from the VCD and upon such reception shall return its response.“

by

“Option_flag definition see 9.5”

Page 31, 10.4.9

“If the Option_flag is not set, the VICC shall return its response when it has completed the lock operation starting after:

t1nom [4352/*fc* (320,9 µs), see 9.1.1] + a multiple of 4096/*fc* (302 µs) with a total tolerance of ± 32/*fc* and latest after 20 ms upon detection of the rising edge of the EOF of the VCD request.

If it is set, the VICC shall wait for the reception of an EOF from the VCD and upon such reception shall return its response.“

by

“Option_flag definition see 9.5”

Page 32, 10.4.10

“If the Option_flag is not set, the VICC shall return its response when it has completed the write operation starting after:

t1nom [4352/*fc* (320,9 µs), see 9.1.1] + a multiple of 4096/*fc* (302 µs) with a total tolerance of ± 32/*fc* and latest after 20 ms upon detection of the rising edge of the EOF of the VCD request.

If it is set, the VICC shall wait for the reception of an EOF from the VCD and upon such reception shall return its response.“

by

“Option_flag definition see 9.5”

Page 32, 10.4.11

Replace:

"If the Option_flag is not set, the VICC shall return its response when it has completed the lock operation starting after:

t1nom [4352/*fc* (320,9 µs), see 9.1.1] + a multiple of 4096/*fc* (302 µs) with a total tolerance of ± 32/*fc* and latest after 20 ms upon detection of the rising edge of the EOF of the VCD request.

If it is set, the VICC shall wait for the reception of an EOF from the VCD and upon such reception shall return its response."

with the following text:

"Option_flag definition see 9.5"

Page 20, after 9.4.1

Add 9.5 **Clarification of use of Option Flag in programming command**

If the Option_flag is not set

The VICC shall return its response when it has completed the operation starting after:

t1nom [4352/*fc* (320,9 µs), see 9.1.1] + a multiple of 4096/*fc* (302 µs) with a total tolerance of ± 32/*fc* and latest after 20 ms upon detection of the rising edge of the EOF of the VCD request.

If the Option_flag is set

The VICC shall wait for the reception of an EOF from the VCD and upon such reception shall return its response.

The VCD shall transmit an EOF at least 10 ms and no later than 20 ms after transmitting the command.

NOTE If the VCD transmits an EOF within 10 ms, the VICC may not be able to execute the command or it may reset.

Upon reception of an EOF the VICC shall wait for a duration of t1 before transmitting its response (see 9.1.1)

ICS 35.240.15
Price based on 3 pages