ISO/IEC 14776-326

Edition 2.0 2015-09

INTERNATIONAL STANDARD

Information technology – Small computer system interface (SCSI) – Part 326: Reduced block commands (RBC)



ISO/IEC 14776-326:2015-09(en)



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ISO/IEC 14776-326

Edition 2.0 2015-09

INTERNATIONAL STANDARD

Information technology – Small computer system interface (SCSI) – Part 326: Reduced block commands (RBC)

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 35.200

ISBN 978-2-8322-2861-6

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INFORMATION TECHNOLOGY – SMALL COMPUTER SYSTEM INTERFACE (SCSI) –

Part 326: Reduced block commands (RBC)

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International Standard ISO/IEC 14776-326 was prepared by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

This second edition cancels and replaces the first edition published in 2002 and constitutes a minor revision.

This second edition provides additional explanations and corrects mistakes with respect to the first edition.

A list of all parts in the ISO/IEC 14776 series, published under the general title *Information technology – Small computer system interface (SCSI)*, can be found on the IEC website.

This International Standard has been approved by vote of the member bodies, and the voting results may be obtained from the address given on the second title page.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

INFORMATION TECHNOLOGY – SMALL COMPUTER SYSTEM INTERFACE –

Part 326: Reduced block commands (RBC)

1 Scope

This part of ISO/IEC 14776 defines a Reduced Block Command set for logical block devices. The Reduced Block Commands along with the required SPC-2 commands and their restrictions described in this standard, fully specify the complete command set for RBC logical block devices.

The purpose of this part of ISO/IEC 14776 is to provide a command set of reduced requirements and options from SCSI Block Commands (SBC) (ISO/IEC 14776-321) for block devices. The reduced command set is intended to more closely match the functionality required for simple block logical units. The specified commands place no restrictions on device performance. The initial focus of this command set was to enable rigid disks and removable media devices attached to Serial Bus and utilizing SBP-2 (ISO/IEC 14776-232) for command and control.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 13213:1994, *Information technology – Micoprocessor systems – Control and Status Registers (CSR) Architecture for microcomputer buses*

ISO/IEC 14776-232:2001, *Information technology – Small computer system interface (SCSI) – Part 232: Serial Bus Protocol 2 (SBP-2)*

ISO/IEC 14776-321:2001, *Information technology – Small Computer System Interface (SCSI-3) – Part 321: Block commands (SBC)*

ISO/IEC 14776-362:2006, *Information technology – Small computer system interface (SCSI) – Part 362: Multimedia commands-2 (MMC-2)*

ISO/IEC14776-412, *Information technology – Small computer system interface (SCSI) – Part 412: SCSI, Architecture model-2 (SAM-2)*

ISO/IEC 14776-452:2005, *Information technology – Small computer system interface (SCSI) – Part 452: Primary commands-2 (SPC-2)*

IEEE Standard 1394-1995, *High Performance Serial Bus*

IEEE Standard 1394A-2000, *High Performance Serial Bus Amendment 1*

3 Terms, definitions, abbreviations, keywords, and conventions

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1
additional sense code
ASC
field in the sense data

Note 1 to entry: See 7.20.2 in ISO/IEC 14776-452:2005.

[SOURCE: ISO/IEC 14776-452:2005, 3.1.2, modified – Reference to SPC-2 added.]

3.1.2
additional sense code qualifier
ASCQ
field in the sense data

Note 1 to entry: See 7.20.2 in ISO/IEC 14776-452:2005.

3.1.3
byte
B
eight bit of data

[SOURCE: ISO/IEC 14776-452:2005, 3.1.9, modified – Definition simplified.]

3.1.4
command descriptor block
CDB
structure of up to 16 B in length used to communicate a command from an initiator to a device

[SOURCE: ISO/IEC 14776-452:2005, 3.1.11, modified – Definition changed.]

3.1.5
EVENT field
byte 0 of the sense data INFORMATION field

Note 1 to entry: See Table 24 for the Event Status INFORMATION field format when the sense code indicates EVENT STATUS NOTIFICATION (38h).

3.1.6
logical unit
part of the device that is an instance of a device model

Note 1 to entry: For example mass storage, CD-ROM or a printer are device models.

Note 2 to entry: In devices that implement one or more logical units, the device type of the logical units may differ.

[SOURCE: ISO/IEC 14776-452:2005, 3.1.30, modified – Definition and explanatory information changed.]

3.1.7
sense data
data describing an error or exceptional device condition that a device delivers to an initiator