

# INTERNATIONAL STANDARD

# ISO/IEC 14776-452

First edition  
2005-08

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## Information technology – Small computer system interface (SCSI) – Part 452: Primary Commands-2 (SPC-2)

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**INFORMATION TECHNOLOGY –  
SMALL COMPUTER SYSTEM INTERFACE (SCSI) –  
Part 452: Primary Commands-2 (SPC-2)**

**FOREWORD**

- 1) ISO (International Organization for Standardization) and IEC (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.
- 2) In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.
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International Standard ISO/IEC 14776-452 was prepared by subcommittee 25: Inter-connection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

## Introduction

The SCSI family of standards provides for many different types of SCSI devices (disks, tapes, printers, scanners and many more). This standard defines a device model that is applicable to all SCSI devices. Other SCSI command standards (see 3.1.12) expand on the general SCSI device model in ways appropriate to specific types of SCSI devices.

The set of SCSI standards specifies the interfaces, functions and operations necessary to ensure interoperability between conforming SCSI implementations. This standard is a functional description. Conforming implementations may employ any design technique that does not violate interoperability.

Figure 1 shows the relationship of this standard to the other standards and related projects in the SCSI family of standards as of the publication of this standard.

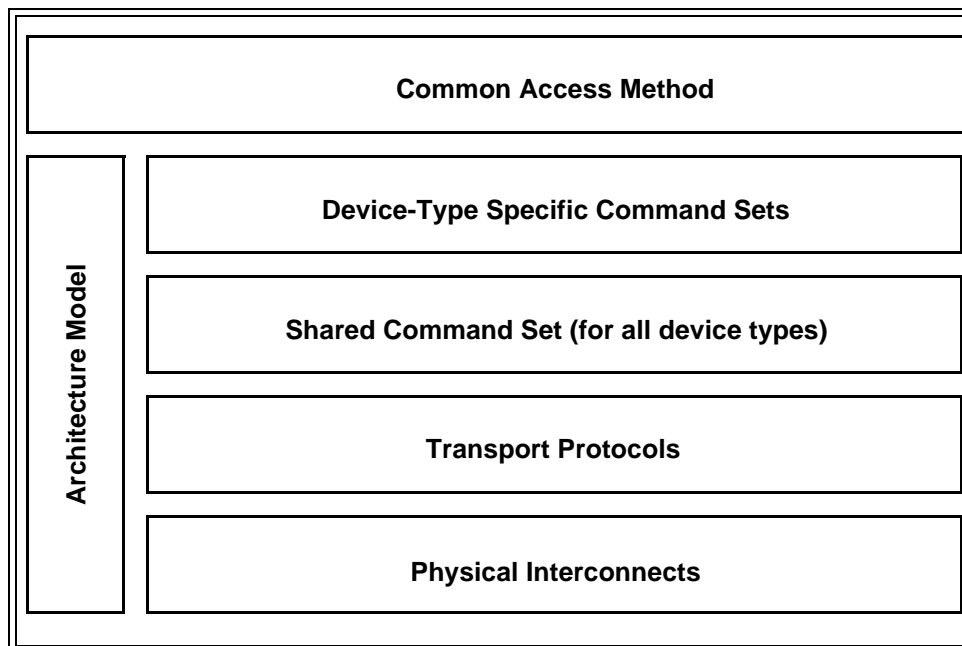


Figure 1 — SCSI document relationships

Figure 1 is intended to show the general relationship of the documents to one another. Figure 1 is not intended to imply a relationship such as a hierarchy, protocol stack or system architecture. It indicates the applicability of a standard to the implementation of a given transport.

For the general structure and references of the SCSI standards, refer to Annex E. The term SCSI is used to refer to the family of standards listed in this annex.

This International Standard is divided into ten clauses.

Clause 1	Scope
Clause 2	Normative references that apply to this standard
Clause 3	Definitions, symbols and abbreviations used in this standard
Clause 4	Conceptual relationship between this document and the SCSI-3 architecture model
Clause 5	Command model for all SCSI devices
Clause 6	Command model for processor type for all SCSI devices
Clause 7	Commands that may be implemented by any SCSI device
Clause 8	Parameter data formats that may be implemented by a processor type SCSI device
Clause 9	Commands that may be implemented by a processor type SCSI device
Clause 10	Parameter data formats that may be implemented by a processor type SCSI device
Annexes	Provide information to assist with the implementation of this standard. The information in the annexes applies to all the SCSI command standards.

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# INFORMATION TECHNOLOGY – SMALL COMPUTER SYSTEM INTERFACE (SCSI) – Part 452: Primary Commands-2 (SPC-2)

## 1 Scope

This part of ISO/IEC 14776 defines the SCSI commands that are mandatory and optional for all SCSI devices. It also defines the SCSI commands that may apply to any device model.

Since a host processor is a part of any SCSI domain, the processor device model is defined in this standard. The commands that may be implemented by a SCSI processor device are also defined in this standard. Some target SCSI devices may implement an initiator subset of the processor device model to support the Asynchronous Event Reporting capability defined in the SCSI-3 Architecture Model.

## 2 Normative references

### 2.1 General

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

### 2.2 Approved references

IEC 60027-2, *Letter symbols to be used in electrical technology - Part 2: Telecommunications and electronics*

ISO/IEC 9316:1995, *Information technology – Small computer system interface-2 (SCSI-2)*<sup>1</sup>

ISO/IEC 14776-412, *Information technology – Small computer system interface (SCSI) – Part 412: SCSI Architecture Model-2 (SAM-2)*

ISO/IEC 14776-222, *Information technology – Small computer system interface (SCSI) – Part 222: SCSI-3 Fibre Channel Protocol-2 for SCSI, Second Versin (FCP-2)*

### 2.3 References under development

At the time of publication, the following referenced standards were still under development. For information on the current status of the document, or regarding availability, contact the relevant standards body or other organization as indicated.

ISO/IEC 14776-351, *Information technology – Small computer system interface-3 (SCSI-3) – Part 351: SCSI-3 Medium Changer Commands (SMC)*<sup>2</sup>

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1 [ANSI INCITS 270:1996]

2 [ANSI INCITS 314:1998]