

INTERNATIONAL STANDARD

ISO/IEC 14776-331

First edition
2002-09

Information technology – Small computer system interface (SCSI) – Part 331: Stream commands (SSC)

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PRICE CODE X

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INFORMATION TECHNOLOGY – SMALL COMPUTER SYSTEM INTERFACE (SCSI) –

Part 331: Stream commands (SSC)

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.
- 3) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

International Standard ISO/IEC 14776-331 was prepared by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

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

INTRODUCTION

This standard specifies functional requirements for SCSI-3 Stream commands (SSC). SSC permits SCSI streaming devices such as tape and printer devices to attach to computers and provides the definitions for their use.

This standard specifies the external behavior of a device server that defines itself as either a Sequential-access device or a Printer device in the device type field of the INQUIRY command response data. Together, these device types are known as Stream Devices. The SSC standard conforms to SCSI-3 Architectural Model (ISO/IEC 14776-411:1999) standard.

This standard does not contain material related to any service delivery subsystem which is used to transport the commands, command parameter data, command response data and status specified in this standard.

The SCSI-3 Stream Commands (SSC) standard specifies a protocol for command-level communications between an application client and a device server that has identified itself as a stream device.

The SCSI-3 Stream Commands (SSC) standard encompasses the following:

- Clause 1 describes the scope.
- Clause 2 lists the normative references.
- Clause 3 provides descriptions, symbols and abbreviations used in this standard.
- Clause 4 provides an overview of the stream device class and command set.
- Clause 5 specifies a model (including the TapeAlert interface definition), command set and parameters for sequential-access devices.
- Clause 6 specifies a model, command set and parameters for printer devices.
- Annex A provides the density code list for sequential-access devices.
- Annex B provides a list of TapeAlert log page parameter codes (flags).

INFORMATION TECHNOLOGY – SMALL COMPUTER SYSTEM INTERFACE (SCSI) –

Part 331: Stream commands (SSC)

1 Scope

This part of ISO/IEC 14776 defines the command set extensions to facilitate operation of SCSI stream devices. This standard in conjunction with ANSI INCITS 351-2001 fully specifies the standard command set for the SCSI stream device class.

The objective of this standard (SSC) is to provide the following:

- a) permit an application client to communicate over a SCSI service delivery subsystem, with a logical unit that declares itself to be a sequential access device or printer device in the device type field of the INQUIRY command response data;
- b) define commands unique to each type of SCSI stream device;
- c) define commands to manage the operation of SCSI stream devices; and
- d) define the differences between the types of SCSI stream devices.

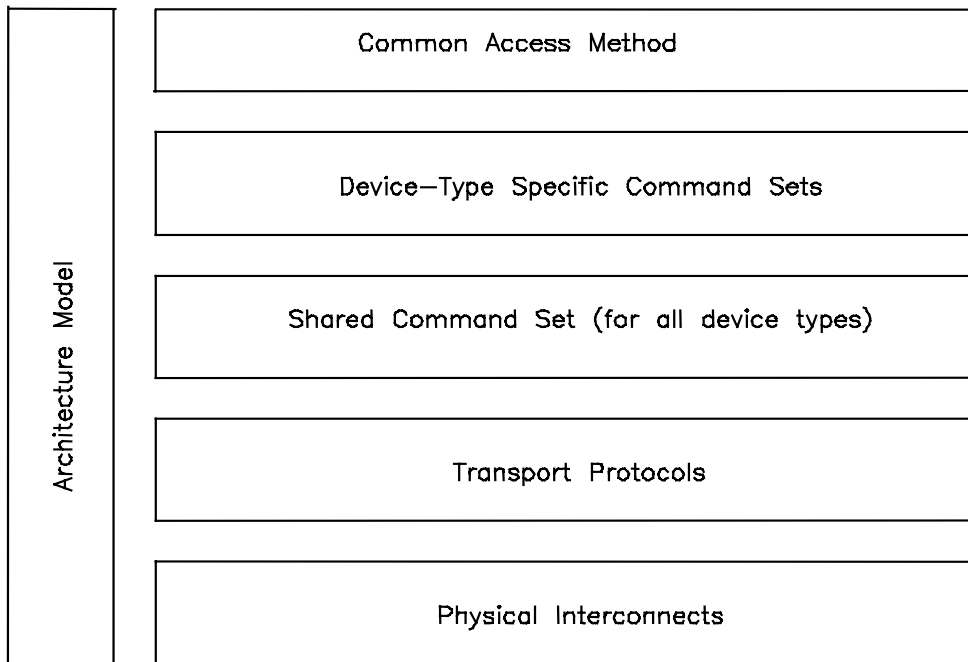


Figure 1 – SCSI standards – General structure

Figure 1 shows the general structure of SCSI standards. The figure is not intended to imply a relationship such as a hierarchy, protocol stack or system architecture.

2 Normative references

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.

ISO/IEC 9316:1995, *Information technology – Small Computer System Interface-2*

ISO/IEC 14776-321:2002, *Information technology – Small Computer System Interface-3 (SCSI-3) – Part 321: Block commands (SBC)*

ANSI INCITS 351-2001, *Information technology – SCSI Primary Commands-2 (SPC-2)*¹

¹ ISO/IEC 14776-312, *Information technology – Small Computer System Interface (SCSI-2) – Part 312: Primary commands-2 (SPC-2)* is under consideration, see also Bibliography.

² See Bibliography: reference ISO/IEC 14776-412.