American National Standard

(formerly ANSI NCITS 335-2000)

Reaffirmed as
INCITS 335-2000 (R2020)

for Information Technology –
SCSI-3 Stream Commands (SSC)

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NCITS 335-2000

American National Standard
for Information Technology –

SCSI-3 Stream Commands (SSC)

Secretariat

Information Technology Industry Council

Approved April 25, 2000

American National Standards Institute, Inc.

Abstract

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

American National Standard

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Foreword (This foreword is not part of American National Standard NCITS 335-2000.)

The SCSI-3 Stream Commands (SSC) 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 (ANSI X3.270-1996) standard.

Requests for interpretation, suggestions for improvement and addenda, or defect reports are welcome. They should be sent to the NCITS Secretariat, Information Technology Industry Council, 1250 Eye Street NW, Suite 200, Washington, DC 20005-3922.

This standard was processed and approved for submittal to ANSI by National Committee for Information Technology Standardization (NCITS). Committee approval of this standard does not necessary imply that all committee members voted for approval. At the time it approved this standard, NCITS had the following members:

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Introduction

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).

American National Standard
for Information Technology –

SCSI-3 Stream Commands (SSC)

1 Scope

This standard defines the command set extensions to facilitate operation of SCSI stream devices. The clauses of this standard, implemented in conjunction with the applicable clauses of the SCSI Primary Commands - 2 standard, fully specify the standard command set for the SCSI stream device class.

The objectives of the SCSI-3 Stream Commands 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.

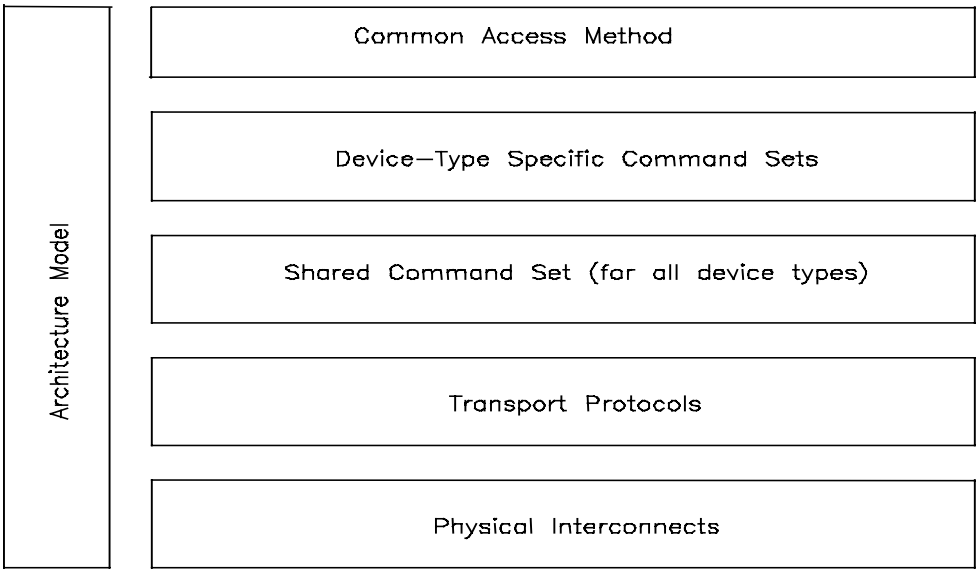

Figure 1 — SCSI standards - General structure

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.