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INTERNATIONAL STANDARD

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Information technology – SCSI-3 Architecture Model (SCSI-3 SAM)

*Technologies de l'information –
Modèle d'architecture SCSI-3 (SCSI-3 SAM)*

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INFORMATION TECHNOLOGY – SCSI-3 Architecture Model (SCSI-3 SAM)

Foreword

ISO (the International Organization for Standardization) and IEC (the 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.

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.

International Standard ISO/IEC 14776-411 was prepared by Joint Technical Committee ISO/IEC JTC 1, Subcommittee SC 25, *Interconnection of information technology equipment*.

Introduction

This International Standard defines generic requirements, which govern SCSI-3 implementation standards, and implementation requirements that apply to all SCSI-3 devices. Implementation requirements specify behavior in terms of measurable or observable parameters pertaining to an implementation. Generic requirements are transformed to implementation requirements by an implementation standard.

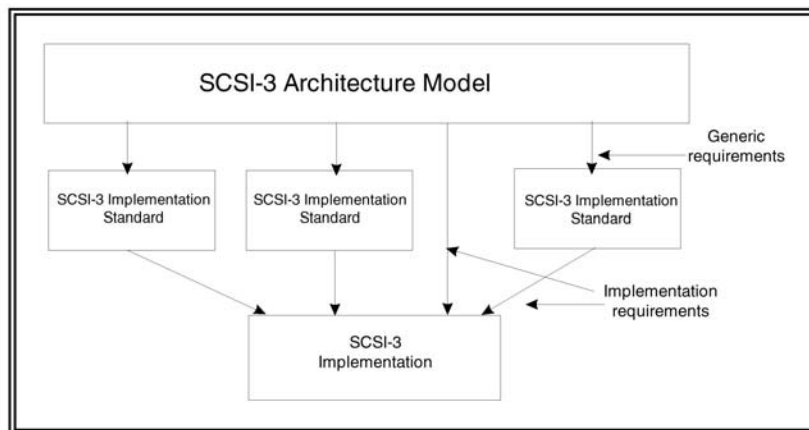


Figure 1 – Requirements Precedence

As shown in figure 1, all SCSI-3 implementation standards shall reflect the generic requirements defined herein. In addition, an implementation claiming SCSI-3 compliance shall conform to the applicable implementation requirements defined in this standard and the appropriate SCSI-3 implementation standards. In the event of a conflict between this document and other SCSI-3 standards the requirements of this standard shall apply.

Table 1 lists the set of ISO/IEC SCSI-3 standards and draft standards in existence at the time of publication. The SCSI-3 implementation standards governed by this standard are those in the Physical I/O, Protocol and Commands categories.

Table 1 – SCSI-3 Document Roadmap

Document Title	Document Categories			
	General	Physical I/O	Protocol	Commands
SCSI Common Access Method Standard (CAM)	9316-421			
SCSI Primary Commands Standard (SPC)				14776-311
SCSI Interlocked Protocol Standard (SIP)			14776-211	
SCSI Parallel Interconnect Standard (SPI)		14776-111		
SCSI Serial Bus Protocol Standard (SBP)			14776-231	
SCSI Architecture Model (SAM)	14776-411			
SCSI Common Access Method -3 Standard (CAM -3)	14776-423			
SCSI Block Commands Standard (SBC)				14776-321
SCSI Stream Commands Standard (SSC)				14776-331
SCSI Graphics Command Standard(SGC)				14776-391
SCSI Medium Changer Commands Standard (SMC)				14776-351
SCSI Fast 20		14776-121		
SCSI Controller Commands Standard (SCC)				14776-341
SCSI Optical Memory Card Reader/Writer (SOMC R/W)				14776-381
SCSI Fibre Channel Protocol (FCP)			14776-221	
SCSI Multi Media Commands Standard (MMC)				14776-361
SCSI Fibre Channel Protocol -2 (FCP -2)			14776-222	
SCSI Parallel Interface -2 (SP I-2)		14776-112		

This document consists of the following seven clauses:

Clause 1 describes the scope of this International Standard.

Clause 2 lists the normative references that apply to this International Standard.

Clause 3 specifies the definitions and notational conventions used by this International Standard.

Clause 4 defines the reference model for an SCSI-3 device.

Clause 5 specifies the model for processing SCSI-3 commands

Clause 6 specifies the task management functions supported by an SCSI-3 device.

Clause 7 specifies the rules for task set management.

INFORMATION TECHNOLOGY – SCSI-3 Architecture Model (SCSI-3 SAM)

1 Scope

This International Standard describes a reference model for the coordination of standards applicable to SCSI-3 I/O systems and a set of common behavioral requirements that are essential for the development of host software and device firmware that can interoperate with any SCSI-3 interconnect or protocol.

2 Normative References

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid standards.

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