

T10/99-293r0

**Project Proposal
For a New
NCITS Standard**

SCSI Architecture Model - 3

(SAM-3)

November 4, 1999

1. Source of the Proposed Project

1.1. Title: SCSI Architecture Model version 3 (SAM-3)

1.2. Date Submitted: November 4, 1999

1.3. Proposing Group: T10, 8 members of T10 are also members of NCITS.

2. Process Description for the Proposed Project

2.1. Project Type: D - Development

2.2. Type of Document:
Standard

2.3. Definitions of Concepts and Special Terms:
None

2.4. Expected Relationship with Approved Reference Models, Frameworks, Architectures, etc.

None, it is expected that this standard will be used in closed systems.

2.5. Recommended NCITS Development Technical Committee:
T10

2.6. Anticipated Frequency and Duration of Meetings

Technical Committee T10 meets on a regularly scheduled basis (see www.t10.org for the current meeting schedule). Specific task ad hoc groups are called as required between the regular meetings but their results are not binding.

2.7. Target Date for Initial Public Review (Milestone 4):
July, 2002

2.8. Estimated Useful Life of Standard or Technical Report:
5 Years

3. Business Case for Developing the Proposed Standard or Technical Report

3.1. Description:

There is a continuing need to evolve and enhance the SCSI architecture model. The proposed SAM-3 standard would revise SAM-2 to extend the model.

The SAM-3 standard will define an abstract layered model specifying those common characteristics of an SCSI I/O subsystem that must be exhibited by all SCSI protocols and implementations to insure compatibility with device drivers and applications regardless of underlying interconnect technology. SAM-3 will maintain a high degree of compatibility with the present SAM-2 standard, which is nearing completion of its development cycle.

The following items should be considered for inclusion in SMC-2:

- 1) Reorganization of information with SPC-3 so that the model might need fewer changes in the future;
- 2) Other capabilities that may fit within the general application scope of this project.

3.2. Existing Practice and the Need for a Standard:

The proposed project involves a compatible evolution of the present architecture model to provide for newly developed SCSI products.

3.3. Implementation Impacts of the Proposed Standard:

3.3.1. Development Costs

Members of T10 will provide the necessary resources. The T10 members will host the required meetings for development, provide for the necessary lab experiments, and provide the Technical Editor for the project.

3.3.2. Impact on Existing or Potential Markets

The nature of the proposed project is to provide for growth in the SCSI products industry. This ensures that current investments in SCSI devices will have a stable managed migration path in the face of technological developments.

3.3.3. Costs and Methods for Conformity Assessment

The committee will consider the results of testing as may be available to the committee through the voluntary efforts of the various participants in T10. With this method all costs are borne by the organizations of the various participants and have for the most part been mainly an adjunct of their normal development costs.

3.3.4. Return on Investment

ROI information is considered proprietary data by the member organizations, but members have stated that the ROI is expected to be large.

3.4. Legal Considerations

3.4.1. Patent Assertions

Calls will be made to identify assertions of patent rights in accordance with the relevant NCITS, ANSI, and ISO/IEC policies and procedures.

3.4.2. Dissemination of the Standard or Technical Report

Drafts of this document will be disseminated electronically. Dissemination of the final standard will be restricted as the document becomes property of NCITS, ANSI, and/or ISO/IEC.

4. Related Standards Activities:

4.1. Existing Standards:

ID Number	Title
X3.270:1996	SCSI-3 Architecture Model (SAM)

4.2. Related Standards Activity:

ID Number	Title
T10/tbd-D	SCSI Primary Commands - 3 (SPC-3)

4.3. Corresponding ISO projects:

ID Number	Title
ISO/IEC 14776	Multipart SCSI standard
ISO/IEC 14776- 411	SCSI-3 Architecture Model (SAM)

4.4. Recommendations for Coordinating Liaison:

None.

4.5. Recommendations for Close Liaison:

NCITS T11 and NCITS T13.