

T10/02-429r1

**Project Proposal
for a new
INCITS Standard**

**Serial Attached SCSI - 2
(SAS-2)**

7 November 2002

1. Source of Proposed Project

1.1 Title: Serial Attached SCSI - 2.

1.2 Date Submitted: 7 November 2002.

1.3 Proposing Group: T10.

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 INCITS Development Technical Committee: T10.

2.6 Anticipated Frequency and Duration of Meetings

Technical Committee T10 meets on a regularly scheduled basis (see <http://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): December 2004.

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

Serial Attached SCSI - 2 is the next generation of Serial Attached SCSI.

The following items should be considered for inclusion in Serial Attached SCSI - 2:

- 1) enhancements to the protocol;
- 2) corrections;
- 3) 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 Serial Attached SCSI standard.

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

This proposed project is intended to preserve as much as practical of the parallel SCSI software investment as the physical interface migrates from a parallel multi-drop bus to a serial point-to-point switched architecture.

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 INCITS, 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 INCITS, ANSI, and/or ISO/IEC.

4. Related Standards Activities

4.1 Existing Standards:

ID Number	Title
X3.270:1996	SCSI-3 Architecture Model (SAM)
NCITS.351:2001	SCSI-3 Primary Commands - 2 (SPC-2)

4.2 Related Standards Activity

ID Number	Title
T10/1562-D	Serial Attached SCSI (SAS)
T10/1157-D	SCSI Architecture Model - 2 (SAM-2)
T10/1416-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)
ISO/IEC 14776-311	SCSI-3 Primary Commands (SPC)

4.4 Recommendations for Close Liaison

Technical Committee T13.