T10/03-030r0

Project Proposal
for a new
INCITS Standard

SCSI Stream Commands - 3
(SSC-3)

December 16, 2002

1. Source of Proposed Project

1.1 Title: SCSI Stream Commands - 3.

1.2 Date Submitted: December 16, 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): January 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

The SCSI Stream Commands - 3 standard will be based on the SCSI Stream Commands - 2 standard that provides the model and command sets for the sequential-access device type. The model and command sets may be implemented on multiple transport interfaces such as Parallel SCSI, Serial Attached SCSI, Fibre Channel, IEEE 1394, and ATA/ATAPI. The following items should be considered for inclusion into SSC-3:

1) continuation and enhancement of the sequential-access device type model;
2) continuation and enhancement of the explicit address command set;
3) continuation and enhancement of the implicit address command set;
4) continuation of TapeAlert standardization; and
5) 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 sequential-access device type model and command sets to provide for newly developed sequential-access device type 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 sequential-access device type product industry. This ensures that current investments in sequential-access device type products 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 that 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)
X3.301-1997	SCSI-3 Primary Commands (SPC)
NCITS.351:2001	SCSI-3 Primary Commands - 2 (SPC-2)

4.2 Related Standards Activity

ID Number	Title
T10/1157-D	SCSI Architecture Model - 2 (SAM-2)
T10/1561-D	SCSI Architecture Model - 3 (SAM-3)
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 T11.