**Project Proposal
For a New
NCITS Standard**

SCSI Block Commands - 2

(SBC-2)

November 4, 1999

1. Source of the Proposed Project

1.1. Title: SCSI Block Commands - 2 (SBC-2)

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:
The SCSI Block Commands - 2 is based on SCSI-3 Block Commands (SBC) that provides commands for block structured data storage devices such as magnetic disks and optical memory block devices. This command set may be implemented on multiple interfaces such as SCSI, Fibre Channel, IEEE 1394 and ATA/ATAPI.

The following items should be considered for inclusion in SBC-2:
1) Support for media capacities larger than 2 terabytes;
2) Transfer commands such as read and write;
3) Control commands to manage the operation of a device;
4) 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 command set to provide for newly developed block structured data storage 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 block structured data storage product industry. This ensures that current investments in block structured data storage 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)
X3.301-1997	SCSI-3 Primary Commands (SPC)
NCITS.306:1998	SCSI-3 Block Commands (SBC)

4.2. Related Standards Activity:

ID Number	Title
T10/1157-D	SCSI Architecture Model - 2 (SAM-2)
T10/1236-D	SCSI Primary Commands - 2 (SPC-2)

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 Coordinating Liaison:
None.

4.5. Recommendations for Close Liaison:
NCITS T11 and NCITS T13.