T10/99-218 r0

Project Proposal
For a New
NCITS Standard

SCSI Media Changer - 2

(SMC-2)

Command Set

September 13, 1999

1. Source of the Proposed Project

1.1. Title: SCSI Media Changer Command Set version 2 (SMC-2)

1.2. Date Submitted: June 15, 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):
January, 2001

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 Media Changers Command set version 2 is based on SCSI Medium Changers Command set version 1 that provides commands to implement changer devices for removable media 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 SMC-2:

1) options for improving operation with serial interconnects;

2) options for handling interconnected changer devices,
3) options to improve reporting of error conditions,
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 command set to provide for newly developed Media Changer 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 Media Changer industry. This ensures that current investments in Media Changer 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 greater than 1000 to 1.

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)
X3.301-1998	SCSI Parallel Interface - 2 (SPI-2)
NCITS.314:1998	SCSI Medium Changer (SMC)

4.2. Related Standards Activity:

ID Number	Title

1236-D	SCSI Primary Commands - 2 (SPC-2)
1157-D	SCSI Architecture Model - 2 (SAM-2)

4.3. Corresponding ISO projects:

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

4.4. Recommendations for Coordinating Liaison:

None.

4.5. Recommendations for Close Liaison:

NCITS T11.