

T10/04-279r0

**Project Proposal
for a new
INCITS Standard**

**SCSI Media Changer – 3
(SMC-3)
Command Set**

September 16, 2004

1. Source of Proposed Project

1.1 Title: SCSI Media Changer Command Set version 3 (SMC-3).

1.2 Date Submitted: September 16, 2004.

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 2006.

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 Media Changer Command Set version 3 is based on SCSI Media Changer Command Set version 2 that provides a model and commands to implement changer devices for removable media. This model and command set may be implemented on multiple transport protocols.

The following items should be considered for inclusion in SMC-3:

- 1) An enhanced media changer device type model;
- 2) An enhanced TapeAlert capability, including synchronization with SCSI Stream Commands – 3 (SSC-3);
- 3) Support for mixed media types within a single media changer;
- 4) Enhanced support for linking multiple media changers;
- 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 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 project 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 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
ANSI INCITS.366:2003	SCSI Architecture Model – 2 (SAM-2)
ANSI INCITS.351:2001	SCSI Primary Commands – 2 (SPC-2)

4.2 Related Standards Activity

ID Number	Title
T10/1561-D	SCSI Architecture Model – 3 (SAM-3)
T10/1416-D	SCSI Primary Commands – 3 (SPC-3)
T10/1383-D	SCSI Media Changer Commands – 2 (SMC-2)
T10/1611-D	SCSI Stream Commands – 3 (SSC-3)

4.3 Corresponding ISO projects

ID Number	Title
ISO/IEC 14776	Multipart SCSI standard

4.4 Recommendations for Close Liaison

Technical Committee T11.

5. Units of Measurement used in the Standard

Not Measurement Sensitive.