

**Project Proposal  
for a new  
INCITS Standard**

**SCSI Block Commands - 3  
(SBC-3)**

**10 November 2005**

## **1 Source of Proposed Project**

**1.1 Title:** SCSI Block Commands - 3.

**1.2 Date Submitted:** 10 November 2005.

**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):** November 2008.

**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**

SCSI Block Commands - 3 is based on the SCSI Block Commands - 2, which provides a model and command set to implement block storage devices such as magnetic disks and flash memory devices.

The following items should be considered for inclusion in SCSI Block Commands - 3:

- 1) Background media scan enhancements;
- 2) Protection information enhancements; and
- 3) Other capabilities that may fit within the scope of this project.

### **3.2 Existing Practice and the Need for a Standard**

The proposed project involves a compatible evolution of the present SCSI Block Commands - 2 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

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 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
ISO/IEC 14776	Multipart SCSI standard
INCITS 402-2005	SCSI Architecture Model - 3 (SAM-3)
INCITS 408-2005	SCSI Primary Commands - 3 (SPC-3)
INCITS 405-2005	SCSI Block Commands - 2 (SBC-2)
INCITS 330-2000 [R2005]	Reduced Block Commands (RBC)
INCITS 330-2000/AM1-2003	Reduced Block Commands (RBC) Amendment 1

### 4.2 Related Standards Activity

ID Number	Title
T10/1683-D	SCSI Architecture Model - 4 (SAM-4)
T10/1729-D	SCSI Primary Commands - 4 (SPC-4)

### 4.3 Recommendations for Close Liaison

INCITS Technical Committees T11 and T13.

## **5 Units of Measurement used in the Standard**

The International System of Units (SI) units will be used.