Project Proposal
For a New
NCITS Standard

MultiMedia Command Set - 3

(MMC-3)

Command Set

May 6, 1999
1. **Source of the Proposed Project**

1.1. **Title:** MultiMedia Command Set version 3 (MMC-3)

1.2. **Date Submitted:** May 6, 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):**

   November, 2000

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 MultiMedia Command set version 3 is based on MultiMedia Command set version 2 that provides for commands to implement CD-R, CD-RW, DVD-ROM, DVD-R, DVD+RW and earlier devices. This command set may be implemented on multiple interfaces such as SCSI, ATA/ATAPI, SBP-2 (1394), and Fibre Channel. The following items should be considered for inclusion in MMC-3:

   1) options for improving operation with new serial interconnect;
   2) extensions to DVD product commands,
   3) extensions to CD product commands,
   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 CD/DVD 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 CD and DVD industry. This ensures that current investments in MultiMedia attachments 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:

<table>
<thead>
<tr>
<th>BSR Number</th>
<th>Title</th>
<th>Project</th>
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<tbody>
<tr>
<td>X3.270:1996</td>
<td>SCSI-3 Architecture Model (SAM)</td>
<td>0994-M</td>
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<tr>
<td>X3.301-1998</td>
<td>SCSI Parallel Interface - 3 (SPI-3)</td>
<td>1142-D</td>
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<td>SCSI Enhanced Parallel Interface (EPI)</td>
<td>1143-D</td>
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<td>NCITS.317:1998</td>
<td>At Attachment with Packet Interface ATA/ATAPI-4</td>
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<tr>
<td>IEEE 1394-1995</td>
<td>IEEE High Performance Serial Bus</td>
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4.2. Related Standards Activity:

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<th>BSR Number</th>
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<tbody>
<tr>
<td></td>
<td>SCSI MultiMedia Command Set-2</td>
<td>1228D</td>
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<td></td>
<td>SCSI Primary Commands - 2 (SPC-2)</td>
<td>1236-D</td>
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<tr>
<td></td>
<td>SCSI Architecture Model - 2 (SAM-2)</td>
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4.3. Corresponding ISO projects:

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<td>Data Interchange on Optical Discs</td>
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<tr>
<td>ISO/IEC 14776</td>
<td>Multipart SCSI standard</td>
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4.4. Recommendations for Coordinating Liaison:
None.

4.5. Recommendations for Close Liaison:
NCITS T13.