

**Project Proposal
For a New
X3 Standard**

**SCSI-3 Multimedia Commands
(MMC)**

February 4, 1994

1 IDENTIFICATION OF PROPOSED PROJECT

- 1.1 **TITLE:** SCSI-3 Multimedia Commands (MMC)
- 1.2 **PROPOSER:** X3T10
- 1.3 **DATE SUBMITTED:** January 13, 1994 X3T10 forwarding date.
- 1.4 **PROJECT TYPE:** D - Development of standards within X3 TC.

2 JUSTIFICATION OF PROPOSED STANDARD**2.1 NEEDS:**

Compact Disc (CD) technology has evolved beyond the functions supported in the SCSI-2 CD-ROM command set. New data formats include CD-DA, CD-I, CD-ROM XA (Form 1&2), and Photo CD (Multiple sessions). New CD drives support multiple speeds and multiple block sizes.

X3T9.2 had assumed that the SCSI-3 CD-ROM command set would be bundled into the SCSI-3 Block Commands project. The recent CD technology developments are too extensive and the exploding multimedia market demand a separate project for this effort.

2.2 RECOMMENDED SCOPE OF STANDARD:

The SCSI-3 Multimedia Commands standard is intended to provide, in conjunction with the SCSI-3 Primary Commands (SPC), a complete set of commands for CD devices, while maintaining a high degree of compatibility with SCSI-2 compliant CD-ROM devices.

Functions which will be considered for incorporation include:

- a) Pertinent functions from the SCSI-2 CD-ROM command set.
- b) New commands and features to support the new CD functions and features.
- c) Other capabilities which fit within the general scope of implementing the SCSI-3 Multimedia Commands on a broad range of applications, and other capabilities that may be proposed during the development phase by the participants in the project.

2.3 EXISTING PRACTICE IN AREA OF PROPOSED STANDARD:

Other efforts exist within X3T10 to broaden the application of SCSI.

2.4 EXPECTED STABILITY OF PROPOSED STANDARD WITH RESPECT TO CURRENT AND POTENTIAL TECHNOLOGICAL ADVANCE:

The nature of the proposed project is to define the SCSI-3 Multimedia Commands in a manner which expands the alternatives available to host system manufacturers while maintaining a high degree of compatibility with SCSI-2.

3 DESCRIPTION OF PROPOSED PROJECT:

3.1 TYPE OF DOCUMENT: Standard.

3.2 DEFINITION OF CONCEPTS AND SPECIAL TERMS: None.

3.3 EXPECTED RELATIONSHIP WITH APPROVED X3 REFERENCE MODELS:

The SCSI-3 Multimedia Commands standard is for use in closed systems.

3.4 RECOMMENDED PROGRAM OF WORK:

The following program of work is planned for the SCSI-3 Controller Commands standard:

- (1) Solicit participation from present and future SCSI participants through X3T10 procedures and through press releases. Invite comments by end-user organizations and invite proposals from organizations that may have a contribution to a viable SCSI-3 Multimedia Commands standard.
- (2) Establish functional requirements for SCSI-3 Multimedia Commands functional additions.
- (3) Prepare a draft standard based on proposals submitted and other information gathered during the initial investigation.
- (4) Consider the results of SCSI-3 Multimedia Commands testing as may be available to the committee through the voluntary efforts of the various participants in X3T10.
- (5) Submit the draft proposed standard to X3 for further processing.

3.5 RESOURCES - INDIVIDUALS AND ORGANIZATIONS COMPETENT IN SUBJECT MATTER:

The current membership of X3T10 includes representatives from all parts of the computer industry from semiconductor chip manufacturers to large mainframe system manufacturers as well as Government agencies. The members of X3T10 have expressed their desire to participate and cooperate in the development of this proposed standard.

There are sufficient resources to complete the development of this standard without delaying work on other standards.

3.6 RECOMMENDED X3 DEVELOPMENT TECHNICAL COMMITTEE:

It is recommended that the development work be done in Technical Committee X3T10.

3.7 ANTICIPATED FREQUENCY AND DURATION OF MEETINGS:

Task group X3T10 meets for two days bi-monthly. Specific task ad hoc groups are called as may be required for one to three days between the regular meetings but their results are not binding.

3.8 TARGET DATE FOR DPANS TO X3 (MILESTONE 10): December 1994**3.9 ESTIMATED USEFUL LIFE OF STANDARD:**

It is anticipated that this standard will have a life of over 10 years.

4 IMPLEMENTATION IMPACTS**4.1 IMPACT ON EXISTING USER PRACTICES AND INVESTMENTS:**

The proposed SCSI-3 Multimedia Commands standard will provide an upward growth path which complements existing practices and investments. It is likely that any isolated negative impacts would occur in any case through non-standard evolution or revolution.

4.2 IMPACT ON SUPPLIER PRODUCTS AND SUPPORT:

The proposed SCSI-3 Multimedia Commands standard will provide an upward growth path which complements existing practices and investments. It is likely that any isolated negative impacts would occur in any case through non-standard evolution or revolution.

4.3 TECHNIQUES AND COSTS FOR COMPLIANCE VERIFICATION:

The committee will consider the results of SCSI-3 Multimedia Commands testing as may be available to the committee through the voluntary efforts of the various participants in X3T10. 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.

4.4 LEGAL CONSIDERATIONS:

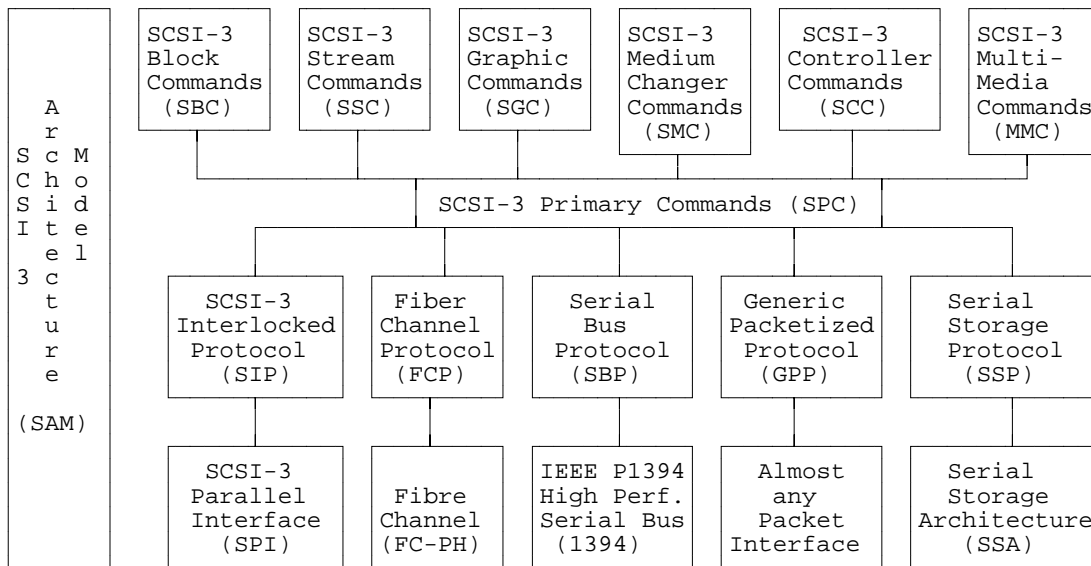
There are no known legal considerations. A Call for Patents will be made under Milestone 7 of the SD-2.

5 CLOSELY RELATED STANDARDS ACTIVITIES

5.1 EXISTING STANDARDS: None.

5.2 X3 STANDARDS DEVELOPMENT PROJECTS:

The SCSI-3 Multimedia Commands is one part of the overall SCSI-3 family of standards, most of which are being developed in X3T10:



5.3 X3 STUDY GROUPS: None.

5.4 OTHER RELATED DOMESTIC STANDARDS EFFORTS: None.

5.5 ISO/IEC JTC 1 STANDARDS DEVELOPMENT PROJECTS:

It is anticipated that this standard will be proposed to JTC1/SC25/WG4.

5.6 OTHER RELATED INTERNATIONAL STANDARDS DEVELOPMENT PROJECTS: None.

5.7 RECOMMENDATIONS FOR COORDINATING LIAISON: None.

5.8 RECOMMENDATIONS FOR CLOSE LIAISON: None.