

X3T10/96-185r0

Project Proposal  
For a New  
X3 Standard

SCSI-3 MULTI-MEDIA Commands - 2  
(MMC-2)

July 18, 1996

## 1. IDENTIFICATION OF PROPOSED PROJECT

1.1 TITLE: SCSI-3 Multi-Media Commands - 2 (MMC-2)

1.2 PROPOSER: X3T10.

1.3 DATE SUBMITTED: July 18, 1996

1.4 PROJECT TYPE: D - Development of a standard within an X3 TC.

## 2. JUSTIFICATION OF PROPOSED STANDARD

### 2.1 NEEDS:

Compact Disc (CD) technology has evolved beyond the functions and data formats supported in the SCSI-3 Multi-Media command (MMC-1) set. New disc types include DVD (Digital Versatile Disc), DVD-ROM/R, DVD-RAM, DVD-ROM, PD Discs, and other multi-session devices

### 2.2 RECOMMENDED SCOPE OF STANDARD:

The SCSI Multi-Media Commands-2 standard is intended to provide additional commands to existing Multi-Media Command Set, and be applicable to new devices being developed.

Functions which will be considered for incorporation include:

- a) New Format commands unique to DVD, PD devices.
- b) Other capabilities which fit within the general scope of implementing the SCSI Multi-Media Commands-2 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 proposed project will expand the existing SCSI-3 Multi-Media Command set.

## 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 MMC-2 standard is intended for use in closed systems.

### 3.4 RECOMMENDED PROGRAM OF WORK:

The following program of work is planned for the MMC-2 standard:

- (1) Solicit participation from present and future SCSI participants through X3T10 procedures and through press releases. Invite comments and participation by developers and end-user organizations and invite proposals from organizations that have contributed to the Multi-Media Command standard.
- (2) Establish functional requirements for Multi-Media Commands-2 functional additions.
- (3) Prepare a draft standard based on proposals submitted and other information gathered during the initial investigation.
- (4) Invite comments by end-user organizations and invite proposals from organizations that may have a contribution to a viable SCSI-3 Multimedia Commands standard.
- (5) Submit the draft proposed standard to X3 for further processing.

### 3.5 RESOURCES - INDIVIDUALS AND ORGANIZATIONS COMPETENT IN THE 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:

Technical Committee X3T10 meets bimonthly. 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: March 1997.

### 3.9 ESTIMATED USEFUL LIFE OF STANDARD:

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

## 4. IMPLEMENTATION IMPACTS

### 4.1 IMPACT ON EXISTING USER PRACTICES AND INVESTMENTS:

The proposed SCSI Multi-Media Commands-2 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 Multi-Media Commands-2 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 Multi-Media Commands-2 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.

### 5. CLOSELY RELATED STANDARDS ACTIVITIES

#### 5.1 EXISTING STANDARDS: None.

#### 5.2 X3 STANDARDS DEVELOPMENT PROJECTS:

BSR Number	Title	Project
X3.270-199x	SCSI-3 Architecture Model	X3T10/0994-D
X3.xxx-199x	SCSI-3 Primary Commands	X3T10/0995-D
X3.xxx-199x	SCSI-3 Block Commands	X3T10/0996-D
X3.xxx-199x	SCSI-3 Multi-Media Commands	X3T10/1048-D

#### 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