

X3T10/96-118r1

Project Proposal
to prepare an Amendment to an
X3 Standard

SCSI-3 Parallel Interface
(SPI)
X3.253-1995

January 11, 1996

1. IDENTIFICATION OF PROPOSED PROJECT

1.1 TITLE: Amendment of SCSI-3 Parallel Interface (SPI).

1.2 PROPOSER: X3T10.

1.3 DATE SUBMITTED: January 11, 1996

1.4 PROJECT TYPE: Amendment of a standard within an X3 Technical Committee.

2. JUSTIFICATION OF PROPOSED STANDARD

2.1 NEEDS:

Technical defects have been identified in both Annex B, SCSI configured automatically (SCAM), and Annex D, Cabling and cable measurement method recommendations.

2.2 RECOMMENDED SCOPE OF AMENDMENT:

The proposed scope of work is to develop an amendment to SPI to correct the identified defects.

2.3 EXISTING PRACTICE IN AREA OF PROPOSED AMENDMENT:

Products have been developed based upon the SPI and others are being developed based upon SPI. Confusion among the products may result without the amendment.

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

The nature of the proposed project is to insure that SPI is technically correct with respect to the defects detected in SCAM and cable measurement techniques subsequent to the completion of SPI.

3. DESCRIPTION OF PROPOSED PROJECT:

3.1 TYPE OF DOCUMENT: Amendment to an American National Standard.

3.2 DEFINITION OF CONCEPTS AND SPECIAL TERMS: None.

3.3 EXPECTED RELATIONSHIP WITH APPROVED X3 REFERENCE MODELS:

The amended SPI standard is intended for use in closed systems.

3.4 RECOMMENDED PROGRAM OF WORK:

The following program of work is planned for the amendment to SPI:

- a) solicit continuing participation by the current membership of X3T10 through X3 procedures. Invite comments and proposals from organizations that may have a contribution to the SPI amendment,
- b) prepare a draft amendment based on proposals submitted and other information gathered during the initial investigation,
- c) consider the results of SPI Amendment testing as may be available to the committee through the voluntary efforts of the X3T10 membership, and
- d) submit the draft SPI Amendment 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 amendment.

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

3.6 RECOMMENDED X3 DEVELOPMENT TECHNICAL COMMITTEE:

It is recommended that the development work be done in Technical Committee X3T10 which is responsible for developing the family of SCSI standards.

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: May 1996.

3.9 ESTIMATED USEFUL LIFE OF AMENDMENT:

It is anticipated that this amendment will have a life of five (5) years.

4. IMPLEMENTATION IMPACTS

4.1 IMPACT ON EXISTING USER PRACTICES AND INVESTMENTS:

The SPI Amendment will allow correction of any existing practices and investments which may be negatively impacted.

4.2 IMPACT ON SUPPLIER PRODUCTS AND SUPPORT:

The SPI Amendment will provide an evolutionary growth path to the existing SCSI 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 SPI Amendment 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. The amendment will either have a negligible impact or will reduce the costs of compliance verification.

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 X3 STANDARDS: ANS SCSI-3 Parallel Interface (SPI) (X3.253-1995).

5.2 X3 STANDARDS DEVELOPMENT PROJECTS:

BSR Number	Title	Project
X3.277-199x	SCSI-3 Fast-20 Parallel Interface (Fast-20)	1071-D
X3.nnn-199x	SCSI-3 Parallel Interface 2 (SPI-2)	1142-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 SPI, as amended, 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.