

1. Identification of Proposed Project

1.1 Title: Extensions to the Common Access Method (CAM-~~2~~²)

1.2 Proposer

This project is proposed by the X3T9 Technical Committee. For additional information, please contact John B. Lohmeyer, X3T9.2 Chairman, at NCR Corporation, 1635 Aeroplaza Dr, Colorado Springs, CO 80916, (Phone: 719-596- 5795 FAX: 719-597-8225) or Dal Allan, X3T9.2 Vice-Chairman at ENDL, 14426 Black Walnut Ct, Saratoga, CA 95070 (Phone: 408-867-6630 Fax: 408-867-2115).

1.3 Date Submitted: August 1992

1.4 Project Type: Development

2. Justification of Proposed Standard or Technical Report

2.1 Needs

The draft standard for CAM has been completed, but as the popularity of the interface has increased, its application area has grown outside the originally intended purpose of defining a standard for the support of Host Bus Adapters in small computer systems.

The CAM Extensions are intended to broaden the scope and application area for other types of computer systems and interconnects.

2.2 Recommended Scope of Standard or Technical Report

The proposed CAM Extensions shall maintain a high degree of compatibility with the CAM standard while providing documentation for new capabilities including the following candidates:

Functions which will be considered for incorporation include:

- a) Provide a means for expanded addressing, for example 64 bit systems.
- b) Expand the interface to handle future models of command queuing.
- c) Other capabilities which fit within the general scope of implementing CAM Extensions on a broader range of applications.

2.3 Existing Practice in Area of Proposed Standard or Technical Report

The proposed project involves evolutionary expansion of the draft CAM standard to provide additional capabilities.

2.4 Expected Stability of Proposed Standard or Technical Report with Respect to Current and Potential Technological Advance

The nature of the proposed project is to define CAM Extensions in a manner which expands the alternatives available to host system manufacturers and peripheral suppliers.

3. Description of Proposed Project

3.1 Type of Document (Standard or Technical Report): Standard

3.2 Definition of Concepts and Special Terms (if any): none

3.3 Expected Relationship with Approved X3 Reference Models (e.g., DBMS, OSI)

The CAM Extensions is for use in closed systems.

3.4 Recommended Program of Work

The following program of work is planned for the CAM Extensions standard:

- Solicit participation from present and future SCSI participants through X3T9.2 procedures and through press releases. Invite comments by end-user organizations and invite proposals from organizations that may have a contribution to a viable CAM Extensions standard.
- Establish functional requirements for CAM Extensions functional additions.
- Prepare a draft standard based on proposals submitted and other information gathered during the initial investigation.
- Consider the results of CAM Extensions testing as may be available to the committee through the voluntary efforts of the various participants in X3T9 and its assigned task group.
- Submit the draft proposed standard to X3 for further processing.

3.5 Resources - Individuals and Organizations Competent in Subject Matter

The current membership of X3T9.2 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 X3T9.2 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 Committees (Existing or New)

It is recommended that the development work be done in task group X3T9.2.

3.7 Anticipated Frequency and Duration of Meetings

Task group X3T9.2 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): July 1993

3.9 Estimated Useful Life of Standard or Technical Report

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 CAM Extensions 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 CAM Extensions 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 CAM Extensions testing as may be available to the committee through the voluntary efforts of the various participants in X3T9 and its assigned task group. 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

No new legal considerations are expected that are not already in accordance with accepted X3 patent policies.

5. Closely Related Standards Activities

5.1 Existing Standards: none

5.2 X3 Standards Development Projects none

X3T9.2/90-186 Common Access Method

5.3 X3/SPARC Study Groups: none

5.4 Other Related Domestic Standards Efforts: none

5.5 ISO 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