Accredited Standards Committee*
X3, Information Processing Systems

To: Membership of X3T9.2

From: John Lohmeyer, Chair X3T9.2

Subject: Minutes of CAM Study Group Meeting (3/15/93)

Agenda

1.   Opening Remarks
2.   Attendance and Membership
3.   Approval of Agenda
4.   Status of Action Items
5.   Multi-pathing to a device discussion [Stephens]
6.   SIMport interface architecture for CAM
7.   SYNC negotiation and 16 and 32 wide transfers [Dallas]
8.   Proposed changes to CAM-1 Rev 3.0 [Dallas]
9.   Defining CCB's and function codes [Dallas]
10. Review of Action Items
11. Meeting Schedule
12. Adjournment

Results of Meeting

1.   Opening Remarks

Since Bill Dallas was unable to attend the meeting due "Superstorm '93", John Lohmeyer, X3T9.2 Chair, called the meeting to order at 9:00 a.m., Monday March 15, 1993. He thanked Skip Jones of Emulex for hosting the meeting. Gary Stephens, IBM, agreed to take the minutes, which John Lohmeyer later edited.

Bill Dallas had been able to prepare agendas and CAM 3.1 documents which he had express mailed to the hotel. These were available at the meeting.

As is customary, the people attending introduced themselves. A copy of the attendance list was circulated for attendance and corrections.

It was stated that the meeting had been authorized by X3T9.2 and would be conducted under the X3 rules. Ad hoc meetings take no final actions, but prepare recommendations for approval by the X3T9.2 task group. The voting rules for the meeting are those of the parent committee, X3T9.2. These rules are: one vote per company; and any participating company member may vote.

The minutes of this meeting will be posted to the SCSI BBS and the SCSI Reflector and will be included in the next committee mailing.

2.   Attendance and Membership

Attendance at working group meetings does not count toward minimum attendance requirements for X3T9.2 membership. Working group meetings are open to any person or company to attend and to express their opinion on the subjects being discussed.

The following people attended the meeting:

Name	S	Organization	Electronic Mail Address
Mr. Denni Rash	O		75450.3313@compuserve.com
Mr. David Wang	O	Advanced Micro Devices	
Mr. Jan V. Dedek	P	Ancot Corp.	
Mr. Charles Monia	P	Digital Equipment Corp.	monia@starch.enet.dec.com
Mr. James S. Doucette	V	Digital Equipment Corp.	doucette@subsys.enet.dec.com
Mr. Richard Whalen	V	Digital Equipment Corp.	whalen@starch.enet.dec.com
Mr. Bruce A. Burr	V	Digital Systems Associates	
Mr. David Switzer	V	Digital Systems Associates	
Mr. Skip Jones	P	Emulex Corp.	sk_jones@emulex.com
Mr. Nick Ladas	A	Foxconn International, Inc.	
Mr. Robert Liu	P	Fujitsu Computer Products,Am	
Mr. Gary R. Stephens	A	IBM Corp.	gstephen@tucvm2.vnet.ibm.com
Mr. John Lohmeyer	P	NCR Corp.	john.lohmeyer@ftcollinsco.ncr.com
Mr. Robert N. Snively	P	Sun Microsystems, Inc.	Bob.Snively@eng.sun.com
Mr. Jim Smith	V	Tandem Computers	smith_jim@tandem.com
Mr. Todd Sprenkle	V	Tandem Computers	sprenkle_todd@tandem.com

16 people present

```
Status Key:  P  -  Principal
             A  -  Alternate
             O  -  Observer
             L  -  Liaison
             S,V - Visitor
```

3.   Approval of Agenda

The draft agenda was approved.

4.   Status of Action Items

John said he did not have the outstanding action item list (it arrived the next day via e-mail--too late for the meeting). He reviewed the current status of the CAM-1 document. Bill Dallas had prepared a Rev 3.1 CAM document which includes the editorial changes to the CAM document except for the changes to section 10. Copies were available at the meeting.

John also announced that Judy Cohen had edited the CAM 3.0 document per the input received from the ISO editor. She had finished the editing and there is now a Word Perfect (tm) version of the CAM 3.0 document. He was in the process of working out how to incorporate the 3.1 changes into the Word Perfect document. Most likely, Larry Lamers would edit the changes into the CAM document in order to have the changes in time for the mailing.

5.   Multi-pathing to a device discussion [Stephens]

Gary Stephens gave a presentation on his 91-199 r2 document on multipathing for SCSI. The notion is to provide a mechanism that hosts can use to identify themselves (names) to logical units. The host uses the same name on all paths. The logical unit can then determine whether the host is available though more than one path.

6.   SIMport interface architecture for CAM

The SIMport interface is a Digital Equipment proposal for a host adapter interface that is close to the XPT/SIM interface. The remaining functions for SIM are a virtual-to-physical memory mapping service. It had been proposed that SIMport be incorporated into CAM-2 or serve as the basis for another standard.

Some people present questioned the need for another interface citing other implementations that may come even closer to the SIM interface. However, most people present had not studied the SIMport document and felt that the decision should be delayed until SIMport has had a wider review. (It will be included in the March committee mailing.)

7.   SYNC negotiation and 16 and 32 wide transfers [Dallas]

The group was not sure exactly what Bill wanted to discuss on this issue. John mentioned that George Penokie had a related issue regarding the SYNC and WIDE negotiations (see the General Working Group minutes).

8.   Proposed changes to CAM-1 Rev 3.0 [Dallas]

The changes in the 3.1 document are identified with "-DALLAS" at the left margin. The changes were previously summarized on the SCSI Reflector.

9.   Defining CCB's and function codes [Dallas]

Deferred until April.

10.   Review of Action Items

Most old action items are probably still valid. John Lohmeyer also accepted an action item to work out how to maintain the CAM-1 document with Bill Dallas and Larry Lamers.

11.   Meeting Schedule

Two CAM meetings are scheduled:

```
    April 20, 1993    5:00 p.m. - 9:00 p.m.   St Petersburg Beach, FL
    May 17, 1993      9:00 a.m. - 5:00 p.m.   Santa Fe, NM
```

12.   Adjournment

The meeting was adjourned at 4:00 p.m. on Monday March 15, 1993.