Minutes for CAM working group 07/18/94
Accredited Standards Committee
X3, Information Processing Systems

Doc. No.: X3T10/
Date: July 19, 1994
Project: CAM
Ref. Doc.: X3T10/792D-R8

To: Membership of X3T10

From: William Dallas

Subject: Minutes of CAM Working Group Meeting
          July 18, 1994
                 Agenda

 1.   Opening Remarks
 2.   Attendance and Membership
 3.   Approval of Agenda
 4.   Report on changes made on the document from Revision 7 to Revision 8.
 5.   Actions of the working group
 6.   Meeting Schedule
 7.   Adjournment

Results of Meeting

1.   Opening Remarks

William Dallas the Editor of the CAM document, called the meeting to order
at 9:00 am, Monday, 18 July 1994. He thanked DIGITAL for hosting the meeting.

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

It was stated that the meeting had been authorized by X3T10 and would be
conducted under the X3 rules.

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 X3T10 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:

CAM Working Group Meeting Attendees

| | | Phone Number -or- |
Name	Org	Electronic Mail Address

Mr. Neil T. Wanamaker AMDAHL   ntw20@eng.amdahl.com
Mr. Gary Stephens   FSI   6363897@mcimail.com
Mr. Richard Whalen   Digital Equipment Corp. whalen@starch.enet.dec.com
Mr. Bob Snively   SUN Microsystems   bob.snively@sun.com
Mr. Ralph Weber   Digital Equipment Corp. weber@star.enet.dec.com
Mr. Bill Dallas   Digital Equipment Corp. dallas@wasted.enet.dec.com
Mr. Akram Atollah   Syquest Technology   (303) 938-8400
Mr. Duncan Penman   Zadian Technologies   penman@netcom.com

8 people present

3.   Approval of Agenda

The agenda developed at the meeting was approved.

4.   Report on changes made on the document from Revision 7 to Revision 8.

Bill Dallas reported on the editorial and technical changes made in the
CAM document which changed the revision from revision 6 to 7. These changes
were the following:

- Changes to CAM

Clarification of Error conditions and queues within the subsystem.

Addition of soft reset alternative handling by peripheral drivers
and SIM/HBAs.

Addition of note that CAM status of Bus Reset Denied is expected
to be deleted in CAM-2.

Clarification of the Abort SCSI Command.

Clarification of the Terminate I/O Process.

Clarification of CAM Control Block Request.

Addition of SIM Queue Freeze Flags Table.

Clarification of Command Linking functionality.

5.   Actions of the Working Group

As normal there where comments and changes suggested to be made to the
document. The following are the major actions of the CAM Working Group:

Soft reset alternative:
The working group felt that the handling for the soft reset
alternative in this revision of CAM was not in conformance with
SCSI-2. The working group also decided that the responsibility for
determining if the soft reset alternative for a SIM/HBA was a vendor

unique implementation at the SIM/HBA. The document will be changed
to reflect the vendor unique soft reset alternative handling and
to reflect the handling of the SIM queues for the HBA when a bus
reset is detected.

CAM Status of Bus Reset Denied:
The working group felt that this status should be deleted in this
version of CAM, if this does not present a large problem to the
only company that is using this status. The company will get back
to the editor with status.

Abort SCSI Command and Terminate I/O Process functions:
Addition of wording that these functions do not effect the autosense
process for the specified CCB if autosense conditons are in effect.

ECA:
There was a long discussion about ECA and how CAM does not address
the handling of the ECA. One member felt that CAM should address and
implement mechanisns that conforms to SCSI-2 ECA mechanisms. It was
argued that ECA was an mechanism not implemented within the industry
and is replaced by ACA in SCSI-3 and that CAM should not address
ECA. It was decided that CAM shall not address ECA mechanisms.

CAM Control Block to Request I/O:
The working group decided that clause 10.1 and 10.2 needs to be
swapped.

CAM Flags Table 19:
The working group decided to merge the SIM Queue Freeze Flags Table
and the Target Mode Specific CAM Flags Table with Table 19.

Review of Clause 11:
A review of Clause 11 up to Clause 11.3 was done and the working
group found major editoral and implementation problems with Phase
Cognizant Mode. The implementations problems were worked and a
solution was developed. The editor was directed to correct the
CAM document.

6.   Meeting Schedule

The next meeting of the CAM Working Group is planned for Sept. 12, 1994 in
Houston, TX. The meeting is expected to run from 9:00am-8:00pm.

7.   Adjournment

The meeting was adjourned at 7:30 pm. on Monday, July 18, 1994.