Draft Minutes
T10 FCP-3 Ad Hoc Meeting
4 May 2004 - 11 AM to 1:30 PM
Seaside CA

An Ad Hoc Meeting of work group FCP-3 of INCITS Technical Committee T10 was held at Seaside CA on Tuesday 4 May 2004, hosted by Brocade. Attendance at this Ad Hoc Meeting was 12 people from 11 companies and is tabulated at the end of this document.

Minutes were taken by Bob Nixon (bob.nixon@emulex.com). Please report any corrections by email to the T10 reflector at T10@T10.org.

1 Opening remarks and introductions   Dave Peterson

Facilitator Dave Peterson opened the meeting Tuesday, 4 May 2004 at 11:06 AM. He thanked our host company, Brocade.

2 Approval of Agenda   04-117r1   Dave Peterson

It was moved by Paul Suhler and seconded by Bob Nixon to accept 04-117r1 as the agenda for this meeting. Approved unanimously.

3 Approval of Minutes of Prior Meetings   04-094r0   Bob Nixon

It was moved by Bob Nixon and seconded by Dave Peterson to accept 04-094r0 as the minutes of the FCP-3 ad hoc meeting on 9 March 2004. Approved unanimously.

4 Review of Old Action Items   Bob Nixon

AI 2   Erich Oetting. Write a proposal to define a ASC for FCP-3 and SPC-3 to return when FCP_DL and the CDB conflict.
            (opened 11/04/03) (Carryover)

AI 4   Kevin Butt. Investigate clarification of target initiated REC behavior.
            (opened 11/04/03) (Carryover)

AI 5   FCP-3 facilitator to recommend to T10 to incorporate 04-068r0 into FCP-3.
            (opened 3/9/03) (CLOSED, see 04-085r1)

AI 6   Jim Coomes to take the issue with First Burst Size and Maximum Burst Size for other protocols to CAP.
            (opened 3/9/03) (carryover)

AI 7   Jim Coomes to publish 04-069r1 reflecting 04-069r0 and the agreements at the FCP-3 meeting 9 March 2004.
            (opened 3/9/03) (CLOSED by 04-069r1)

AI 8   FCP-3 facilitator to recommend to T10 to incorporate <u>04-069r1</u> into FCP-3.
                (opened 3/9/03) (CLOSED, see <u>04-085r1</u>)

5 Discussion Items

5.1 Return check condition when FCP_DL too small <u>03-393r0</u>   Erich Oetting

Erich was not present.

ACTION: FCP-3 Facilitator to contact Erich about his ability to follow up on Action Item 2.

5.2 Impact of protection information on data length fields <u>04-068r1</u>   Jim Coomes

Approved at the last meeting relative only to the protection information. The author was informed there may be other extension fields of interest, and withdrew the original proposal pending a followup. This is the followup.

It was pointed out some instances of "application client data buffer" should change to "application client buffer" to use SAM-3 terminology.

It was agreed to change references to "FCP_DATA IUs" to "FCP_DATA IU Payloads".

It was agreed to add text for FCP_READ_DL similar to that added for FCP_DL..

It was moved by Jim Coomes and seconded by Bob Nixon to recommend to T10 to incorporate <u>04-068r2</u> into FCP-3. Approved unanimously.

ACTION: FCP-3 Facilitator to recommend to T10 to incorporate <u>04-068r2</u> into FCP-3.

5.3 TPRLO behavior   <u>04-129r0</u>   Dave Peterson

The proposal corrects an apparent discrepancy in the clearing effects table for a global TPRLO, and in a later paragraph.

It was moved by Dave Peterson and seconded by Bob Nixon to recommend to T10 to incorporate <u>04-129r0</u> into FCP-3. Approved unanimously.

ACTION: FCP-3 Facilitator to recommend to T10 to incorporate <u>04-129r0</u> into FCP-3.

5.4 Task Management Function to Unknown LUN <u>04-112r0</u>   George Penokie

The proposal observes there is no clear specification on what to do with a task management function sent to a nonexistent logical unit. It suggests that the task management function be reported complete.

It was moved by George Penokie and seconded by Dave Peterson to recommend to T10 to incorporate <u>04-112r0</u> into FCP-3. Approved unanimously.

ACTION: FCP-3 Facilitator to recommend to T10 to incorporate <u>04-112r0</u> into FCP-3.

5.5 Invalid Logical Unit Number   email   Rob Elliott

This issue was raised in a message to the reflector from Dave Peterson on 4 May 2004. It proposes adding a service action code to be returned to indicate a command directed to an invalid logical unit number. There was no opposition.

Rob will write a proposal.

5.6 Revision 3a Discussion Items   **04-132r0**   **Kevin Butts**

This presentation introduces several questions that may lead to proposals for change.

Questions 1-4 requested clarifications for several specifications involving sequence level error recovery. The group was open to detailed proposals.

Question 5 was accepted by the editor.

Question 6 referred to a problem with RR_TOV being changeable, and asked for a new FC-4 Link Service to determine the current timeout values used by a target. Another alternative is to make the RR_TOV value in the mode pages nonwritable, but existing implementations use it. Extensions to the HBA API seemed most appropriate and an agenda item will be included at the next meeting.

Question 7 asks to resolve the nonspecification of Query Task by specifically not supporting it. The Editor will take care of this.

Question 8 is another issue with a requirement to report a hardware error.

Question 9 referred to more timer problems.

6 Unscheduled Items

None were presented.

7 Next Meeting   **Dave Peterson**

Request 2 hours at the T10 Plenary Week July 2004 in Colorado Springs, Colorado.

8 Review of Action Items   **Bob Nixon**

AI 2   Erich Oetting. Write a proposal to define a ASC for FCP-3 and SPC-3 to return when FCP_DL and the
            CDB conflict.
            (opened 11/04/03) (Carryover)

AI 4   Kevin Butt. Investigate clarification of target initiated REC behavior.
            (opened 11/04/03) (Carryover)

AI 6   Jim Coomes to take the issue with First Burst Size and Maximum Burst Size for other protocols to
            CAP.
            (opened 3/9/03) (carryover)

AI 9   Facilitator to contact Erich about his ability to follow up on Action Item 2.
            (Opened 4 May 2004)

AI 10   Facilitator to recommend to T10 to incorporate <u>04-068r2</u> into FCP-3.
(Opened 4 May 2004) (CLOSED, see <u>04-135r0</u>)

AI 11   Facilitator to recommend to T10 to incorporate <u>04-129r0</u> into FCP-3.
(Opened 4 May 2004) (CLOSED, see <u>04-135r0</u>)

AI 12   Facilitator to recommend to T10 to incorporate <u>04-112r0</u> into FCP-3..
(Opened 4 May 2004) (CLOSED, see <u>04-135r0</u>)

AI 13   Next AI

9 Adjournment

The meeting was adjourned at 12:35 PM on 4 May 2004.

10 Documents Approved for FCP-3

<u>04-068r2</u>   Impact of protection information on data length fields

<u>04-129r0</u>   TPRLO behavior

<u>04-112r0</u>   Task Management Function to Unknown LUN

11 Attendance

Name	Company
Jim Coomes	Seagate
Dave Peterson	CNT
Paul Suhler	Certance
Bob Nixon	Emulex
Paul Entzel	Quantum
Vit Novak	Sun
Rob Elliott	HP
Pat Thaler	Agilent
Ralph Weber	ENDL
Gary Stephens	FSI
George Penokie	IBM
Kevin Butt	IBM