

Draft Minutes

T10 FCP-3 Ad Hoc Meeting

13 July 2004 - 9 AM to 1 PM

Colorado Springs CO

- Revision 1: Removed inaccurate parenthetical description of the “current approach” in the first paragraph of 5.2.
- Corrected “FC-4 type bits” to “FC-4 Features bits” in the first paragraph of 5.3.
- Corrected “I was observed” to “It was observed” in the first paragraph of 5.3.
- Corrected the attendance to show that the facilitator was present for the meeting.

An Ad Hoc Meeting of work group FCP-3 of INCITS Technical Committee T10 was held at Colorado Springs CO on 13 July 2004, hosted by LSI Logic. Attendance at this Ad Hoc Meeting was 10 people from 9 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**

Chairperson Dave Peterson opened the meeting Tuesday, 13 July 2004 at 9:00 AM. He thanked our host company, LSI Logic, and led a round of introductions.

2 Approval of Agenda **Dave Peterson**

04-202r0

Rob Elliot requested to add the topic Incorrect Logical Unit (04-154r0)

It was moved by Dave Peterson and seconded by Bob Nixon to accept 04-202r0 with the change noted above as the agenda for this meeting. Approved unanimously.

3 Approval of Minutes of Prior Meetings **Bob Nixon**

04-158r0

It was moved by Bob Nixon and seconded by Dave Peterson to accept 04-158r0 as the minutes of the FCP-3 ad hoc meeting on 4 May 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) (CLOSED by 03-393r0)

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 Oetting about his ability to follow up on Action Item 2.
(Opened 4 May 2004) (CLOSED)
- AI 10 Facilitator to recommend to T10 to incorporate 04-068r2 into FCP-3.
(Opened 4 May 2004) (CLOSED, see 04-135r0)
- AI 11 Facilitator to recommend to T10 to incorporate 04-129r0 into FCP-3.
(Opened 4 May 2004) (CLOSED, see 04-135r0)
- AI 12 Facilitator to recommend to T10 to incorporate 04-112r0 into FCP-3..
(Opened 4 May 2004) (CLOSED, see 04-135r0)

5 Discussion Items

5.1 Return check condition when FCP_DL too small 03-393r0

Erich Oetting

This proposal is in response to FCP-3 AI 2. It affects SPC-3 rather than FCP-3. It proposes a resolution to what happens when an initiator sets FCP_DL incorrectly (i.e., too short).

Agreed to change the "shall" on the response to a "should".

Agreed to define and use a new ASC/ASCQ "INVALID FIELD IN IU".

Agreed to augment the specification of sense data pointers to be able to point to errors in the Command IU as well as the CDB.

Agreed to add to SPC-3 a protocol-agnostic definition of Information Unit and IU. This was seen to be more than trivial.

FCP currently requires a nonzero response code for command errors. On a nonzero response code, there is currently a requirement to ignore sense data. This is agreed to have caused problems. It was desired to fix this, but understood to be more than a narrow fix.

ACTION: Erich Oetting to revise 03-393r0 to reflect discussion today and pursue it in CAP.

5.2 Incorrect Logical Unit

04-154r0

Rob Elliot

Agreed to give precedence to the new response (reporting the condition) while permitting the current approach.

It was moved by Bob Nixon and seconded by Kevin Butt to incorporate 04-154r1 into FCP-3, reflecting 04-154r0 and the agreements at the FCP-3 meeting 13 July 2004. Approved unanimously.

ACTION: Rob Elliot to publish 04-154r1 reflecting 04-154r0 and the agreements at the FCP-3 meeting 13 July 2004.

ACTION: FCP-3 facilitator to recommend to T10 to incorporate 04-154r1 into FCP-3.

5.3 Revision 3b items

FCP3r03b

Peterson

Agreed Annex D will recommend using the Name Server FC4 Features bits instead of immediate PRLI to distinguish targets and initiators. It was observed this will allow avoidance of unnecessary logins of initiators to other initiators.

Agreed to remove subclause 5.4. It was understood to add no useful information and it references nonexistent supporting material.

Agreed to remove from subclause 9.3.3 the permission to use sequence level recovery for bidirectional transfers. It was understood the infrastructure (e.g., REC information) is incomplete.

6 Unscheduled Items

none

7 Meeting Schedule

Dave Peterson

Request 2 hours at the T11 Plenary Week September 2004 in Nashua NH.

8 Review of Action Items

Bob Nixon

- 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 13 Erich Oetting to revise 03-393r0 to reflect discussion today and pursue it in CAP.
(opened 13 July 2004)
- AI 14 Rob Elliot to publish 04-154r1 reflecting 04-154r0 and the agreements at the FCP-3 meeting 13 July 2004.
(opened 13 July 2004) (CLOSED by 04-154r1)
- AI 15 FCP-3 facilitator to recommend to T10 to incorporate 04-154r1 into FCP-3.
(opened 13 July 2004)
- AI 16 Next AI

9 Adjournment

The meeting was adjourned at 10:40 AM on 13 July 2004.

10 Documents Approved for FCP-3

04-154r1 Incorrect Logical Unit

11 Attendance

Name	Company
Niels Reimers	Agilent
Robert Snively	Brocade
Dave Peterson	CNT
Bob Nixon	Emulex
George Penokie	IBM
Kevin Butt	IBM
Marc Brooke	Paralan
Paul Entzel	Quantum
Paul Suhler	Certance
Erich Oetting	Storage Technology
Charles Binford	Sun Microsystems