

Draft Minutes

T10 FCP-4 Ad Hoc Work Group

6 May 2008 - 9 AM to 11 AM

Santa Clara CA

The FCP-4 Ad Hoc Work Group of the INCITS SCSI (T10) Technical Committee met at Santa Clara CA on 6 May 2008, hosted by nVidia. Attendance was 12 people from 10 organizations 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

Chairperson Dave Peterson opened the meeting Tuesday, 6 May 2008 at 9:09 AM. He thanked our host company, nVidia, and led a round of introductions.

2 Approval of Agenda

T10/08-218r0

It was moved by Dave Peterson and seconded by Kevin Butt to accept T10/08-218r0 with the changes noted above as the agenda for this meeting. The motion was approved unanimously.

3 Review of Minutes

T10/08-153r0, T10/08-220r0

The FCP-4 ad hoc work group has had two recent meetings. Minutes for the meeting 11 March 2008 have been posted as document T10/08-153r0, and minutes for the teleconference 2 April 2008 have been posted as document T10/08-220r0.

It was moved by Dave Peterson and seconded by Bob Nixon to accept T10/08-153r0 as the minutes of the FCP-4 ad hoc work group meeting on 11 March 2008, and to accept T10/08-220r0 as the minutes of the FCP-4 ad hoc work group teleconference on 2 April 2008. The motion was approved unanimously.

4 Review of Old Action Items

- 060509-2 Dave Peterson: Look at XDREAD and XDWRITE behavior regarding retries. Do we fix it here or in SBC.
(Expect it will become an SBC issue, but for now, Carry)
- 070508-4 FCP-4 editor to clarify that an FCP_Port should behave the same if it receives either reason code 03h or 09h in response to an REC ELS if the reason code explanation is either 15h or 17h.
(Carry)
- 071106-1 FCP-4 editor to clarify that, if Sequence Recovery is enabled, an I_T_L_Q nexus is identified by the Fibre Channel fully qualified exchange identifier together with the task retry identifier.
(Carry)

- 080311-1 FCP-4 chair to schedule a teleconference to consider T10/08-127r0 and T10/08-137r0 for 11 AM to 1 PM CDT on Wednesday, 2 April 2008.
(Completed by teleconference on 2 April 2008)
- 080402-1 Curtis Ballard to provide requirements for an FC-4 Features bit to indicate an FCP-4 device type is “not a disk”.
(Completed by T10/08-127r1)

5 Old Business

5.1 FC-4 Features object and device type support T10/08-127r1 Peterson/Brocade

The presentation proposes to use one bit in the FC-4 Features for FCP-4 to identify that at least one logical unit at an FCP_Port is a device other than a disk drive. This is expected to significantly reduce the effort necessary for a host to find a boot device in a large SAN.

It was agreed to change “supports” to “contains” in the description of the new bit.

It was moved by Dave Peterson and seconded by Curtis Ballard to recommend to T10 to incorporate T10/08-127r2 into FCP-4, reflecting T10/08-127r1 and the agreements at the FCP-4 ad hoc work group meeting 6 May 2008. Approved unanimously.

ACTION Dave Peterson to publish T10/08-127r2 reflecting T10/08-127r1 and the agreements at the FCP-4 ad hoc work group meeting 6 May 2008.

ACTION FCP-4 chairperson to recommend to T10 to incorporate T10/08-127r2 into FCP-4.

ACTION FCP-4 editor, on approval of T10, to incorporate T10/08-127r2 into FCP-4.

5.2 Defects in FCP-4r00a T10/08-137r0 Butt/IBM

This presentation was deferred pending a revision reflecting the agreements at the teleconference 2 April 2008.

6 New Business

No new business was presented.

7 Schedules

7.1 Meeting Schedule

The chair will request 2 hours at the T11 Plenary Week 14-17 July 2008 in Anchorage AK.

7.2 Project Schedule

In order to remain open to possible important inputs from T10 SSC and T11 FC-SCM, it was agreed to move the Letter Ballot milestone to September 2008.

| Milestone | Date |
|-------------------------------|-----------------------------|
| Last technical input | January 2008 (Completed) |
| Target date for Letter Ballot | September 2008 |

8 Review of Action Items

- 060509-2 Dave Peterson: Look at XDREAD and XDWRITE behavior regarding retries. Do we fix it here or in SBC.
(Expect it will become an SBC issue, but for now, Carry)
- 070508-4 FCP-4 editor to clarify that an FCP_Port should behave the same if it receives either reason code 03h or 09h in response to an REC ELS if the reason code explanation is either 15h or 17h.
(Carry)
- 071106-1 FCP-4 editor to clarify that, if Sequence Recovery is enabled, an I_T_L_Q nexus is identified by the Fibre Channel fully qualified exchange identifier together with the task retry identifier.
(Carry)
- 080506-1 Dave Peterson to publish T10/08-127r2 reflecting T10/08-127r1 and the agreements at the FCP-4 ad hoc work group meeting 6 May 2008.
- 080506-2 FCP-4 chairperson to recommend to T10 to incorporate T10/08-127r2 into FCP-4.
- 080506-3 FCP-4 editor, on approval of T10, to incorporate T10/08-127r2 into FCP-4.

9 Adjournment

It was moved by Dave Peterson and seconded by Bob Nixon to adjourn. The motion was approved unanimously.

The meeting was adjourned at 9:24 AM on 6 May 2008.

10 Attendance

| Representative | Organization |
|-----------------------|--------------------------------|
| David Peterson | Brocade |
| Robert Snively | Brocade |
| David Black | EMC |
| Sean Dolan | EMC |
| Robert H. Nixon | Emulex |
| Ralph O. Weber | ENDL Texas |
| Curtis Ballard | Hewlett Packard |
| Kevin Butt | IBM |
| Robert Payne | lomega |
| Matthew Ball | M.V. Ball Technical Consulting |
| Chris Fore | NetApp |
| Paul Suhler | Quantum |