Draft Minutes
T10 FCP-4 Ad Hoc Work Group
13 February 2007 - 9:00 AM to 10:30 AM
Memphis TN

The FCP-4 Ad Hoc Work Group of the INCITS SCSI (T10) Technical Committee met at Memphis TN on 13 February 2007, hosted by SCSI Trade Association. Attendance was 15 people from 8 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

Chairperson Dave Peterson opened the meeting Tuesday, 13 February 2007 at 9:01 AM. He thanked our host organization, SCSI Trade Association, and led a round of introductions.

2 Approval of Agenda

It was moved by Bob Nixon and seconded by Dave Peterson to accept T10/07-127r0 as the agenda for this meeting. Approved unanimously.

3 Review of Minutes

It was moved by Dave Peterson and seconded by Paul Suhler to accept T10/06-506r0 as the minutes of the FCP-4 ad hoc meeting on 7 November 2006. Approved unanimously.

4 Review of Old Action Items

060509-2   Dave Peterson: Look at XDREAD and XDWRITE behavior regarding retrys. Do we fix it here or in SBC.
             (Carry)

060711-1   Dave Peterson to contact tape vendors to see whether they are able to force the Sequence Count to zero on Sequence retries.
             (Email sent, Peterson to known tape vendors 25 August 2006. Minimal response. Carry for resend.)

060711-2   HBA vendors to determine whether they need to be able to do Sequence retry from relative offset 0.
             (Email sent. Minimal response. Carry for resend.)

061107-1   FCP-4 chair to notify Claudio DeSanti that the FCP-4 work group will take no action concerning CISC at this time.
             (Completed)

061107-2   Bob Nixon to present a proposal for negotiating use of CISC in FCP-4, allowing protection for those devices that do not gracefully tolerate it.
(Carry)

5 Old Business

None was presented.

6 New Business

6.1 QUERY TASK task management function   T10/07-072r0   Elliott (HP)

The presentation proposes that the QUERY TASK task management function be mapped to a REC ELS.

It was agreed to reference FC-LS rather than FC-FS-2 for ELS specifications.

It was agreed to provide a mapping to task management function responses from REC ELS status and REC Estat values. Preference was expressed to define only minimal specific behavior for obvious error code cases, to avoid breaking existing implementations.

Rob offered to prepare a revision.

6.2 QUERY TASK SET t- m- f-   T10/07-066r0   Elliott (HP)

This presentation proposes to add a new task management function. The new task management function has not yet been approved by CAP, but if it is, the task management function bits in the FCP_CMD information unit need extension. Either an obsolete or reserved task management function bit needs to be assigned, or the task management function bits need to be changed from a bit mask that allows only a single bit to be set to a coded value. The presenter preferred the latter, since it would allow additional future task management functions if needed.

It was agreed that a reserved task management function bit in the FCP_CMD information unit will be used, but the task management function bits will be respecified as a coded value.

It was agreed to add ADT-2 to this proposal.

It was agreed that like other task management functions, this one must be transmitted in a new exchange.

Rob offered to prepare a revision, pending approval in CAP.

6.3 QUERY UNIT ATTENTION t- m- f-   T10/07-067r0   Elliott (HP)

This presentation proposes to add a new task management function. The new task management function has not yet been approved by CAP, but if it is, it will require the same kind of changes to FCP task management function encoding.

It was agreed that a reserved task management function bit in the FCP_CMD information unit will be used, but the task management function bits will be respecified as a coded value.

It was agreed to add ADT-2 to this proposal.

It was agreed to add an optional OUT parameter to carry the unit attention status to the architectural model of the new task management function.

It was agreed to clarify that support for the new task management function is optional at the transport level even if included at the architectural interface.

It was noted that in a device with stacked unit attention, the unit attention that is returned may not be the one relevant to the command for which the unit attention values are sought. The presentation suggests this may be ameliorated if one more byte containing a stacked unit attention count is added to the additional response information.

It was agreed that one more byte containing a stacked unit attention count will be added to the additional response information.

It was agreed that like other task management functions, this one must be transmitted in a new exchange.

Rob offered to prepare a revision, pending approval in CAP.

6.4 Inconsistent REC ELS reason code   email   Suhler (Quantum)

The LS_RJT Reason Code for certain REC errors concerning inconsistent identification is different in FCP-2 than in FC-FS and FC-LS. Possible resolutions include requiring one of the codes consistently, or allowing both.

ACTION   Dave Peterson to send email to the community soliciting how implementations behave concerning the REC ELS reason code concerning inconsistent identification.

7 Meeting Schedule

Request 2 hours at the T11 Plenary Week DMY in PLACE.

8 Review of Action Items

060509-2   Dave Peterson: Look at XDREAD and XDWRITE behavior regarding retrys. Do we fix it here or in SBC.
(Carry)

060711-1   Dave Peterson to contact tape vendors to see whether they are able to force the Sequence Count to zero on Sequence retries.
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060711-2   HBA vendors to determine whether they need to be able to do Sequence retry from relative offset 0.
(Email sent. Minimal response. Carry for resend.)

061107-2   Bob Nixon to present a proposal for negotiating use of CISC in FCP-4, allowing protection for those devices that do not gracefully tolerate it.
(Carry)

070313-1   Dave Peterson to send email to the community soliciting how implementations behave concerning REC ELS reason code concerning inconsistent identification.

9 Adjournment

It was moved by Dave Peterson and seconded by Bob Nixon to adjourn. Approved unanimously.

The meeting was adjourned at 10:46 AM on 13 February 2007.

10 Actions on Proposals at This Meeting

Document Title	Presenter	Number	Disposition
QUERY TASK task management function	Elliott (HP)	T10/07-072	T10/07-072r0 was presented. Expect a new revision.
QUERY TASK SET t- m- f-	Elliott (HP)	T10/07-066	T10/07-066r0 was presented. Expect a new revision.
QUERY UNIT ATTENTION t- m- f-	Elliott (HP)	T10/07-067	T10/07-067r0 was presented. Expect a new revision.
Inconsistent REC ELS reason code	Suhler (Quantum)	nodoc	Email will be sent to solicit direction from the community.

11 Attendance

Representative	Organization
David Peterson	Brocade
Robert Snively	Brocade
Robert H. Nixon	Emulex
Curtis Ballard	Hewlett Packard
Michael Banther	Hewlett Packard
Rob Elliott	Hewlett Packard
Christopher Williams	Hewlett Packard
Kevin Butt	IBM
Landon Noll	NeoScale Systems
Frederick Knight	Network Appliance
Matthew Ball	Quantum
Paul Entzel	Quantum
Paul Suhler	Quantum
Erich Oetting	Sun Microsystems
Scott Painter	Sun Microsystems