Draft Minutes
T10 FCP-3 Ad Hoc Meeting
9 March 2004 - 11 AM to 1:30 PM
Dana Point CA

An Ad Hoc Meeting of work group FCP-3 of INCITS Technical Committee T10 was held at Dana Point CA on 9 March 2004, hosted by QLogic. Attendance at this Ad Hoc Meeting was 15 people from 14 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, 9 March 2004 at 11:09 AM. He thanked our host company, QLogic, and led a round of introductions.

2 Approval of Agenda   Dave Peterson

It was moved by Dave Peterson and seconded by Bob Nixon to accept 04-071r0 with the changes noted above as the agenda for this meeting. Approved unanimously.

3 Approval of Minutes of Prior Meetings   Bob Nixon

It was moved by Bob Nixon and seconded by Paul Suhler to accept 03-395r0 with the changes noted above as the minutes of the FCP-3 ad hoc meeting on 4 November 2003. 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 3   Editor. Add normative text to FCP-3 to state that an initiator shall always send a PRLI in Fibre Channel
              Point-to-Point topology.
              (opened 11/04/03) (CLOSED)

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

5 Scheduled Business

5.1 SPC-3 return check condition when FCP_DL too small 03-393r0   Erich Oetting

Guidance was requested on two issues:

Suppose FCP_DL is too small for the data length in the CDB? Should the whole transfer be errored or should the data that fits be transferred? Transfer nothing.

If error, what reply? Illegal Request was suggested. Overrun and/or underrun were also suggested.

Point raised: It may affect iSCSI as well.

5.2 Define DL field function with protection information enabled <u>04-068r0</u>   Jim Coomes

Jim raised the issue that the DL field, transfer ready command, and First Burst Size and Maximum Burst Size do not clearly specify whether they specify lengths including protection information. He suggested that each of these shall include protection information.

It was moved by Bob Snively and seconded by Paul Suhler to incorporate <u>04-068r0</u> into FCP-3. Approved unanimously.

ACTION: FCP-3 facilitator to recommend to T10 to incorporate <u>04-068r0</u> into FCP-3.

ACTION: Jim Coomes to take the issue with First Burst Size and Maximum Burst Size for other protocols to CAP.

5.3 Clarify PRLI impact on open sequences   <u>04-069r0</u>   Jim Coomes

Jim pointed out that though the clearing effects of PRLI are well specified with respect to commands and to sequences, specification versus exchanges is needed. He proposed a specification.

It was agreed that all references in current specfication to clearing sequences are historical and obsolete, and should be replaced by references to clearing exchanges. This in fact was what Jim has proposed.

It was agreed to eliminate use of the word "sequences" in 5.5.2.5.

It was moved by Jim Coomes and seconded by Bob Snively to incorporate <u>04-069r1</u> into FCP-3, reflecting <u>04-069r0</u> and the agreements at the FCP-3 meeting 9 March 2004. Approved unanimously.

ACTION: Jim Coomes to publish <u>04-069r1</u> reflecting <u>04-069r0</u> and the agreements at the FCP-3 meeting 9 March 2004.

ACTION: FCP-3 facilitator to recommend to T10 to incorporate <u>04-069r1</u> into FCP-3.

5.4 Reporting of Fabric Login parameters via target device nodoc   Rob Elliott

Guidance was requested on a way to report fabric login parameters for a device to clients of the device. An example of interest was the sequential delivery bit. A page (log? VPD? Mode?) was suggested by Rob.

It was not clear that there was any other information of interest in FC FLOGI ("anything else that might have been interesting has been obsoleted").

The issues will be taken into consideration, and a proposal may be returned.

5.5 QUERY TASK support   nodoc   Dave Peterson

SPC (SAM?) allows but does not require the QUERY TASK task management request. SAS supports it. FC uses the REC ELS instead, which limits it to the transport layer. A previous meeting agreed to add it to FCP. There is currently no obvious way to implement it.

Should QUERY TASK be used (instead of REC) in FCP error recovery?

Agreed not to.

Agreed to retract the agreement (and any supporting text in the draft standard) to support QUERY TASK in FCP-3.

Agreed that if a complete proposal were presented, we would be open to reconsidering it.

6 New Business

None was presented.

7 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 5   FCP-3 facilitator to recommend to T10 to incorporate 04-068r0 into FCP-3.

AI 6   Jim Coomes to take the issue with First Burst Size and Maximum Burst Size for other protocols to CAP.

AI 7   Jim Coomes to publish 04-069r1 reflecting 04-069r0 and the agreements at the FCP-3 meeting 9 March 2004.

AI 8   FCP-3 facilitator to recommend to T10 to incorporate 04-069r1 into FCP-3.

AI 9   Next AI

8 Meeting Schedule   Dave Peterson

Request 2 hours at the T10 Plenary Week DMY in PLACE. Preferred not to conflict with CAP.

9 Adjournment

The meeting was adjourned at 12:30 PM on 9 March 2004.

10 Documents Approved for FCP-3

04-069r1   Clarify PRLI impact on open sequences

04-068r0   Define DL field function with protection information enabled

11 Attendance

Name	Company
Jim Coomes	Seagate
Dave Peterson	CNT
Paul Suhler	Certance
Erich Oetting	Storage Tek
Roger Cummings	Veritas
Bob Nixon	Emulex
Neil Wanamaker	AMCC
Eddie Quicksall	iVivity
Dexter Anderson	Crossroads
Paul Entzel	Quantum
Michael Banther	HP
Roy elsbernd	Agilent
Vit Novak	Sun
Bob Snively	Brocade
Rob Elliott	HP