

Accredited Standards Committee*

National Committee for Information Technology Standards (NCITS)

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Reply to: John Scheible

To: T11.3 Membership
From: George Penokie
Subject: FC-AL-3 Working Group Meeting -- February 14, 2000
Huntington Beach, CA

Agenda

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3. Attendance and Membership
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 - 5.1 New AL-3 editor (99-622v0) [Penokie]
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 - 5.3 Review of clause 10 (99-622v0) [Penokie]
7. Unscheduled new FC-AL-3 business
8. Review of FC-AL-3 action items
9. Meeting Schedule
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Results of Meeting

1. Opening Remarks

George Penokie, the T11.3 Vice-Chair, called the meeting to order at 9:00 a.m., Monday February 14, 2000. He thanked Skip Jones of QLogic for hosting the meeting.

As is customary, the people attending introduced themselves and a copy of the attendance list was circulated.

2. Approval of Agenda

The draft agenda was approved with no changes.

No agenda items were added or revised during the course of the meeting.

3. Attendance and Membership

Attendance at working group meetings does not count toward minimum attendance requirements for T11.3 membership. Working group meetings are open to any person or organization directly and materially affected by T11.3's scope of work. The following people attended the meeting:

Company Represented	Last Name	First Name	E mail
Adaptec	Monia	Charles	cmonia@corp.adaptec.com
Ancor	Carlson	Craig	cwc@ancor.com
CMD Technology	O'Neil	Stephen	oneil@cmd.com
Compaq	Zettler	Carl	carl.zettler@compaq.com
Connectivity Solutions	Kembel	Robert W.	kembel@compuserve.com
Crossroads Systems	Wanamaker	Neil	ntw@crossroads.com
ENDL	Allan	Dal	endcom@attglobal.net
Fujitsu	Fitzpatrick	Mike	mfitzpatrick@fcpa.fujitsu.com
Gadzoox	Martin	William R.	bmartin@gadzoox.com
General Dynamics	Pedersen	Robert K.	Robert.K.Pedersen@gd-is.com
HP/Agilent	Wakeley	Matt	matt_wakeley@agilent.com
IBM	Penokie	George	gop@us.ibm.com
IBM	Kramer	Kevin	kramerk@us.ibm.com
JNI	Stuber	Craig	csstuber@jni.com
LSI Logic	Vijayaraghavan	Divya	divyav@lsil.com
LSI Logic	Binford	Charles	Charles.Binford@lsil.com
LSI Logic	Sangha	Harmel	sanghah@lsil.com
LSI Logic	Allen	David	david.allan@lsil.com
QLogic	S tai	Jeffrey	j_s tai@qlc.com
Quantum	S eto	Pak	ps eto@tdh.qntm.com
Seagate	Coomes	James	jim_coomes@notes.seagate.com
Seagate	Milligan	Gene	gene_milligan@notes.seagate.com
Sun Microsystems	S nively	Robert N.	bob.snively@ebay.sun.com
True Focus	Trues tedt	Hors t L.	hotrues@attglobal.net
Unisys	S tone	Arlan	arlan.stone@unisys.com

4. Review of old FC-AL-3 action items

- Write a proposal or initiate reflector traffic related to open handling with limited circuits [Penokie]
- Upload the 10 Gbit update as a T11 document. Closed (00-012v0) [Ridgeway]

5. Old FC-AL-3 Business

No old business was discussed by the group.

6. Scheduled New Business FC-AL-3

6.1 New FC-AL-3 editor (99-622v0) [Penokie]

Jeff Williams has resigned as editor due to circumstances beyond his control. George Penokie has taken over the editorship of FC-AL-3.

6.2 Status of AL-3 document (99-622v0) [Penokie]

Revision 1 is distributed and revision 2 should be ready for the next meeting.

Carl Zeitler sees switches as being the major attachment mechanism. With the advent of higher speed technologies and the increasing complexity of MCM, his corporation sees no reason for large loops that would be supported best by MCM. Because of this Carl Zeitler moved that we delete the FC-AL-3 project. Bob Snively seconds the motion. The group accepted Horst Truedsted's proposal to change the motion to remove only MCM from FC-AL-3.

The motion is: The working group recommends to T11.3 direct the editor to remove MCM from the FC-AL-3 draft.

Arguments for removing MCM included: adds complexity, low-cost switches solve the same problem, small loops don't need MCM, will not add performance in a typical configuration, would cause interoperability problems.

Argument for keeping MCM included: loops can be made larger and used more efficiently, low-cost switches are not yet available, compared to things like LIP MCM is not complicated.

The vote was; Yes 13 No 2 Abstain 1

Gene Milligan noted that this change would also require T10 to be notified to remove the MCM information from FCP-2.

It was pointed out that the removal of arbitration won state and the removal of the transfer state and instead distributing the transfer functionality to the transmitted close and received close states had also been brought forward for FC-AL-2, but had never been installed. George stated those proposals should be brought back in for consideration.

6.3 Review of clause 10 (99-622v0) [Penokie]

The review included Jim Coomes' comments.

Editor's note 1) accepted. Removed reference to FC-AL.

Editor's note 2) "item" references to be removed

Editor's note 3) This note was rejected but several issues were raised that need to be addressed. There is a question of whether or not F/NL_Ports should be obsoleted or not.

A proposal will be written to better define NL_Port detection during nictitation.

Editor's note 4) Editor's note 4 suggests moving the timer section closer to the diagram. It was accepted.

Editor's note 5) drop. Verify against Jim Coomes' wording.

Editor's note 6) accept

Editor's note 7) EOF is not checked by the silicon, and EOFt and EOFn are only checked in context. As a result you need to allow checking during the initialization procedure to be more limited. There is a missing "not" in 10.5.1 d)

Editor's note 8) rejected

Jim's comment 2, page 127. This should be a reference to 10.5.3.1. Jim's comment 3, page 127. This needs to be fixed or made a reference to 10.5.3.1.

It was pointed out that future uses are still reserved for D_ID/S_ID, so the entire ordering needs to be looked at.

There are at least two major approaches being taken in this. One says do away with all but the EFh and 00h values. Another says specify the actual priorities of the available addresses, noting that all with the low order bit = 1 are equivalent at the lowest priority.

Jim's comment on page 128. accepted, and similarly for the other tables.

Jim's comment on page 135 was accepted.

The remaining comments and editor note will be addressed at the next meeting.

7. Unscheduled new FC-AL-3 business

No unscheduled new business was brought before the group.

8. Review of FC-AL-3 action items

- Write a proposal or initiate reflector traffic related to open handling with limited circuits [Penokie]
- Will write a proposal to show how a second FL_Port or a new FL_Port will be detected so that an FNL_Port can retire from its fabric functions. [Trustedt]
- Will write a proposal to show that NFL_Port concept is not required and that a device choosing to support fabric services can become a normal FL_Port and perform identically. [TBD]

9. Meeting Schedule

The next meeting of the FC-AL-3 Working Group will be Monday, April 3, 2000 commencing at 9:00 a.m. recessing at 12:00 noon in San Diego, CA hosted by Brocade Corp.

10. Adjournment

The meeting was adjourned at 12:00 noon on Monday February 14, 2000.