

Draft Minutes
INCITS Fibre Channel TG T11.2 Plenary Meeting #94
7 February 2013 – 9 AM to 10:30 AM (PST)
Palm Springs, CA

1 Opening remarks and introductions

1.1 Introductory Remarks

TC T11.2 chair Tom Palkert (Luxtera) convened regular meeting #94 of the INCITS Fibre Channel (T11.2) Technical Committee on Thursday, 7 February 2013 at 9:07 AM Pacific standard time. He introduced himself as chair and thanked our host Chris Lyon and FCIA for the meeting facilities.

The chair next introduced Dean Wallace (Qlogic) as vice chair and Richard Johnson (Finisar) as secretary.

1.2 Self-introductions

The chair requested those present to introduce themselves, with identification of the organizations they represent.

1.3 Meeting guidelines (Anti-Trust and IPR)

The chair stated that the meeting was operating under INCITS procedures, and called attention to the INCITS patent policy by showing the INCITS Patent Policy Slides. The advice on the slides was provided and there was no discussion and for reference the slides can be found at http://www.incits.org/pat_slides.pdf, also available to T11 members as T11/08-406v0.

The chair noted that the INCITS Antitrust Guidelines <http://www.incits.org/inatrust.htm> applied to this committee meeting and that it was the responsibility of all attendees, and not just the Officers, to ensure that the Guidelines are followed, and to terminate discussions if they are not.

1.4 Electronic Attendance

The chair instructed those present how to register using the electronic attendance list for this meeting, found via the URL <http://www.t11.org/att>, and informed those present of the necessary password. He reminded those present that the electronic attendance list would become the only source of attendance for formal records of this meeting.

2 Approval of the Agenda

An electronic version of the agenda was posted as T11/13-078v0 and supporting documents were accessible via the TC web site. The chair presented the agenda with final updates, and made a call for any changes and new agenda items. No changes or new items were requested.

John Lohmeyer (LSI) moved and Jay Neer (Molex) seconded to accept that T11/13-078v0 as presented at this meeting be approved as the agenda for this meeting. The agenda passed by acclamation.

3 Attendance and Membership

3.1 Gaining and Losing Voting Membership

Information on how membership is gained, maintained, and lost in any INCITS Technical Committee or Task Group may be found in subclause 4.2 of INCITS Organization and Procedures found at INCITS/RD-2 at www.incits.org. An overview of these requirements was presented by the chair and was distributed to all attendees in the electronically distributed meeting documents.

The chair presented the current list of members and representatives, and invited corrections. The membership effective for this meeting, as adjusted for changes introduced at this meeting, is shown in subclause 3.6 below. Attendance for this meeting is shown in clause 14 below.

3.2 Roll Call of Members in Jeopardy for Non-Attendance

No member company lost membership for non-attendance.

3.3 Jeopardy / Membership Loss for Not Voting in T11.2 Letter Ballots

No company lost membership for not voting on T11.2 letter ballots.

3.4 Members in Jeopardy for Non-Payment of Fees

No company lost membership for non-payment of fees.

3.5 Membership Changes and Announcement of New Members

Gautam Shiroor replaces Bill Martin as alternate for Emulex.

3.6 T11.2 Voting Memberships for this meeting

The following is the list of organizations that are voting members of record for regular meeting #94 of the INCITS Fibre Channel (T11.2) Technical Committee, including the recognized representatives of each member organization.

Based on the above information, the total voting membership is 26 effective at the start of this meeting.

Organization	Representative	Membership Class (P, A, L, E, XO, FoC, Etc.)
Agilent	Joachim Vobis	P
	Steve Sekel	A
	Stephen Didde	A
Amphenol	Greg McSorley	P
	Alex Persaud	A
	Michael Wingard	A
Avago Technologies	Randy Clark	P
	David Cunningham	A
	Brian Misek	A
Broadcom	Ali Ghiasi	P
	Pat Thaler	A
Brocade	Steven Wilson	P
	Scott Kipp	A

	David Peterson	A
Corning Inc.	Doug Coleman	P
	Steven E. Swanson	A
	Jack Edwards	P
Data Center Systems	Jason Pritchard	P
EMC	Mickey Felton	A
	David Black	A
	Hossein Hashemi	P
Emulex	Gautam Shiroor	A
	Miguel Conde	P
FCI	Vittal Balasubramanian	A
	David Sideck	A
	Chris Yien	P
Finisar	Richard Johnson	A
	Sandy Wilson	P
Fujitsu	Jim DeCaires	A
	Eugene Owens	A
	Mark Malcolm	A
	Kun Katsumata	A
	Barry Maskas	P
HP	Krishna Puttagunta	A
	Nava Navaruparajah	A
	Rupin Mohan	A
	John Ewen	P
IBM	David Stauffer	A
	Roger Hathorn	A
	Scott Carlson	A
	Dave Lewis	P
JDSU	Joseph White	P
Juniper	Simon Gordon	A
	Jaya Bandyopadhyay	A
	Adam Healey	P
LSI	John Lohmeyer	A
	Harvey Newman	A
	Tom Palkert	P
Luxtera	Jay H. Neer	P
Molex	Mark Bugg	A
	Jon Anderson	P
Oclaro	Jose Castro	P
Panduit	Steve Skiest	A
	Robert Elliot	A
	Robert Reid	A
	Dean Wallace	P
QLogic	Mark Owen	A
	Mike Dudek	A
	Craig Carlson	A
	David Brown	P
Semtech	Ed Frlan	A
	Francois Tremblay	A
	Richard Baca	P
Systimax / Comscope	Joe Livingston	A
	Paul Kolesar	A
	Kim Whitman	P
TE Connectivity	Kim Whitman	P

	Michael Fogg	A
	Andrew Nowak	A
Vitesse	Marty Spadaro	P
	Gary Paules	A

4 Anti-Trust Policies

The chair noted that among the rules and policies under which T11.2 TG operates are the INCITS Antitrust Guidelines as specified in <http://www.incits.org/inatrust.htm>. Any member of the meeting is responsible for objecting if he believes discussion in the meeting violates these guidelines. As examples, there should never be discussion of the following topics at any INCITS or INCITS subgroup meeting:

- Any company's prices or pricing policies;
- Specific R&D, sales, and marketing plans;
- Any company's confidential product, product development, or production strategies;
- Whether certain suppliers or customers will be served;
- Prices paid to input sources; or
- Complaints about individual firms or other actions that might tend to hinder a competitor in any market.

If such discussion is not immediately terminated, it is the chairperson's responsibility to terminate the meeting.

5 Document Distribution

The chair reviewed T11.2 document distribution and covered the following points:

- Distribution of meeting documents is available from <ftp://ftp.t11.org/latest>.
- Document Subscription service: see <http://www.t11.org/t11/docreg.nsf/center>.
- T11 and T11.2 web pages and reflectors

6 Approval of the Minutes of October 2012 Plenary Meeting #93

The prior regular meeting of the INCITS Fibre Channel T11.2 Technical Group was #93 on 06 December 2012. The draft minutes of that meeting were posted as document T11/12-503v0.

T11.2 minutes were reviewed as posted on the T11 web site. Corrections may be requested either before the subsequent meeting by email to the T11.2 secretary (richard.johnson@finisar.com) or at the subsequent meeting in person.

Greg McSorley (Amphenol) and seconded by Jay Neer (Molex) to accept T11/12-503v0 as the Minutes of T11.2 meeting #93 on 06 December 2012. The motion passed by acclamation.

7 Review of Old Action Items

- Dean Wallace (Qlogic) to prepare a presentation for next joint T11.2/T11.3 meeting to discuss 4 lane variants and FC-FS-4 support that would be needed. Carried over.
- Dean Wallace (Qlogic) to upload the FCIA 128GFC MRD to the T11 website. Completed: T11/12-550v0.
- Steve Wilson (Brocade) to post successful T11 standards case study for presentation at next T11 meeting cycle. Completed: T11/13-089v0.
- Doug Coleman (Corning) to draft a letter responding to TIA to state that there has been limited interest from transceiver vendors, encouraged to continue this activity, and to keep us informed. Completed.
- Tom Palkert (Luxtera) to draft a response to the OIF thanking them for their support and asking for further details on UBHPJ. Completed.

8 Review of T11.2 Projects

8.1 Project Status Review

The chair reviewed the status of the FC-PI-6 and FC-MSQS-2 projects.

8.2 MSQS-2 Ad Hoc Working Group (T11/13-064v0)

The MSQS-2 ad hoc chair Dean Wallace (Qlogic) presented meeting report T11/13-064v0. One presentation T11/13-050v0 was given by the editor, Richard Johnson (Finisar) highlighting "Recent technical contributions to MSQS-2". The remainder of the session was spent on comment resolution.

8.3 FC-PI-6 Ad Hoc Working Group (T11/13-076v0)

The FC-PI-6 ad hoc chair Dean Wallace (Qlogic) presented meeting report T11/13-076v0. Four presentations were given:

- Adam Healey (LSI) presented T11/13-058v0 "Receiver BER target for 32GFC";
- Adam also discussed T11/13-059v0 "32GFC over backplane proposal";
- Ali Ghiasi (Broadcom) reviewed T11/13-056v0 "32GFC chip to chip simulations"; and
- Richard Johnson (Finisar) and David Cunningham (Avago) gave T11/13-067v0 "Response to FCIA for 128GFC MRD".

The remaining time was spent on comment resolution. 77 technical comments were resolved.

8.4 Joint T11.2 / T11.3 Ad Hoc Working Group (T11/13-083v0)

The joint T11.2/T11.3 ad hoc chair Dean Wallace (Qlogic) presented meeting report T11/13-083v0. Three presentations were given:

- Dave Stauffer (IBM) presented T11/13-049v0 "128GFC strawman architecture";
- Scott Kipp (Brocade) discussed T11/13-061v0 "128GFC overview"; and
- Scott also gave T11/13-062v0 "128GFC speed negotiation".

9 Letter Ballots

No letter ballots were held during this meeting cycle.

10 Old Business

None for this meeting cycle.

11 Review of International Activity

None given for this meeting cycle.

12 New Business and New Technical Items

None for this meeting cycle.

13 Call for Patents

The chair noted that the current record of responses to prior calls for patents can be found on the T11 web site at <http://www.t11.org/t11/docreg/nsf/patentdoc?OpenView>. A template form for a patent declaration that is satisfactory to both INCITS and ISO can be found in http://www.incits.org/patdec_form.doc. The chair made the call for patents. No members disclosed patents for this meeting cycle.

14 List of Meeting Attendees

The electronic attendance record for this T11.2 plenary meeting showed 23 attendees representing 21 voting member companies:

Agilent	Steve Sekel
Amphenol	Greg McSorley
Avago	David Cunningham
Broadcom	Ali Ghiasi
Brocade	Steven Wilson
Brocade	Scott Kipp
Data Center Systems	Jack Edwards
Emulex	Gautam Shiroor
FCI	Miguel Conde
Finisar	Richard Johnson
Fujitsu	Sandy Wilson
HP	Nava Navaruparajah
JDSU	Dave Lewis
Juniper	Joseph White
LSI	John Lohmeyer
Luxtera	Tom Palkert
Molex	Jay Neer
Panduit	Jose Castro
QLogic	Dean Wallace
QLogic	Craig Carlson
Semtech	David Brown
TE Connectivity	Michael Fogg
Vitesse	Marty Spadaro

The electronic attendance record also shows that 1 non-voting-member was in attendance:

IBM	Henry May
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15 Liaison Reports

15.1 INCITS, SC25, and T11 Liaison report (T11/13-053v0 and T11/12-518v0)

T11 chair Steve Wilson (Brocade) gave T11/13-053v0 "INCITS report to T11" and T11/12-518v0 "T11 report to INCITS."

15.2 SFF Committee (verbal report)

Dave Lewis (JDSU) gave a verbal report (no document number) on the latest SFF SSWG meeting. Updates to SFF-8472 to add 32GFC support (including rate select) will be requested of the editor Randy Clark (Avago).

15.3 T10 (verbal report)

John Lohmeyer (LSI) gave a verbal report (no document number) of recent T10 activities. SAS 3 12G speed is out for letter ballot.

15.4 IEEE (T11/13-066v0)

Tom Palkert (Luxtera) gave Adam Healey's T11/12-066v0 "IEEE 802.3 activities report".

15.5 TIA (no document number)

Tom Palkert (Luxtera) reviewed the liaison letter from T11 to TIA that Doug Coleman (Corning).

15.6 OIF (T11/13-085v0)

Tom Palkert (Luxtera) reviewed his letter T11/13-085v0 to OIF encouraging further .

16 Future Meeting Schedule

The next plenary meeting will be held in Albuquerque, New Mexico, on April 11.

Dean Wallace (Qlogic) moves Jay Neer (Molex) seconds the following motions:

Plenary week schedule

MSQS-2 Ad Hoc requests 1:30 PM to 5:00 PM Tuesday, April 9

The FC-PI-6 Ad Hoc requests 9:00 AM to 5:30 PM Wednesday, April 10.

The Joint T11.2 / T11.3 Ad Hoc requests 5:30 to 7:30 PM Wednesday, April 10.

Authorization of Ad Hoc groups & study groups

No requests were made for this meeting cycle.

Authorization of Telephone Conference Calls

The MSQS-2 Ad Hoc requests two telephone conference calls.

The FC-PI-6 Ad Hoc requests two telephone conference calls.

The joint T11.2 / T11.3 Ad Hoc requests two telephone conference calls.

All motions passed by acclamation.

17 Action Items

- Dean Wallace (Qlogic) to prepare a presentation for next joint T11.2/T11.3 meeting to discuss 4 lane variants and FC-FS-4 support that would be needed.
- Dean Wallace (Qlogic) to put together a project proposal to define 128GFC physical variants.
- Dean Wallace (Qlogic) to send slide 3 of T11/13-076v0 to FCIA as response from T11.2 to 128GFC request
- Richard Johnson (Finisar) and Dave Lewis (JDSU) to help Hossein Hashimi (Emulex) prepare Framemaker draft of Clause 5 of FC-PI-6.

18 Adjournment

Greg McSorley (Amphenol) moved to adjourn at 10:05 AM. The motion passed by unanimous consent.