

Approved Minutes
INCITS Fibre Channel TG T11.2 Plenary Meeting #93
6 December 2012 – 9 AM to 11 AM (MST)
Tucson, AZ

1 Opening remarks and introductions

TC TG T11.2 chair Tom Palkert (Luxtera) convened the meeting on Thursday, 6 December 2012 at 9:00 AM Mountain standard time. He introduced himself as chair and thanked Chris Lyon and FCIA for the meeting facilities.

1.1 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.

1.2 Electronic Attendance

The chair instructed those present how to register using the electronic attendance list for this meeting, and informed those present of the necessary password.

1.3 Meeting Documents

The chair noted that meeting documents are obtainable from <ftp://ftp.t11.org/latest>.

1.4 Self-introductions

Members introduced themselves and the companies which they represent.

1.5 Patent Policy

Attendees were reminded that the template for submitting patent declaration information to INCITS and ISO can be downloaded from http://www.incits.org/patdec_form.doc. Completed and signed declaration forms can be submitted via email to patents@itic.org.

2 Approval of the Agenda

An electronic version of the agenda T11/12-498v0 and supporting documents were accessible via the TC web site. The chair presented the agenda, and made a call for any new agenda items. Hossein Hashemi (Emulex) moved and Steve Sekel (Agilent) seconded to accept the agenda as presented. The agenda was approved by unanimous consent.

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 the 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.

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

Mark Bugg replaces Mike Rost as alternate for Molex.

3.6 T11.2 Voting Memberships for this meeting

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

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
Data Center Systems	Jack Edwards	P
EMC	Jason Pritchard	P
	Mickey Felton	A
	David Black	A
Emulex	Hossein Hashemi	P
	Bill Martin	A
FCI	Miguel Conde	P
	Vittal Balasubramanian	A
	David Sideck	A
Finisar	Chris Yien	P
	Richard Johnson	A
Fujitsu	Sandy Wilson	P
	Jim DeCaires	A
	Eugene Owens	A
	Mark Malcolm	A
	Kun Katsumata	A
HP	Barry Maskas	P
	Krishna Puttagunta	A
	Nava Navaruparajah	A
	Rupin Mohan	A
IBM	John Ewen	P
	David Stauffer	A

	Roger Hathorn	A
	Scott Carlson	A
JDSU	Dave Lewis	P
Juniper	Joseph White	P
	Simon Gordon	A
	Jaya Bandyopadhyay	A
LSI	Adam Healey	P
	John Lohmeyer	A
	Harvey Newman	A
Luxtera	Tom Palkert	P
Molex	Jay H. Neer	P
	Mark Bugg	A
Oclaro	Jon Anderson	P
Panduit	Jose Castro	P
	Steve Skiest	A
	Robert Elliot	A
	Robert Reid	A
QLogic	Dean Wallace	P
	Mark Owen	A
	Mike Dudek	A
	Craig Carlson	A
Semtech	David Brown	P
	Ed Frlan	A
	Francois Tremblay	A
Systimax / Comscope	Richard Baca	P
	Joe Livingston	A
	Paul Kolesar	A
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 and T11.2 web pages and reflectors

6 Approval of the Minutes of October 2012 Plenary Meeting #92

The T11/12-414v0 minutes of the October 4th T11.2 plenary were reviewed. It was moved by Jay Neer (Molex) and seconded by Bill Martin (Emulex) to accept the minutes. The motion passed by unanimous consent.

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: carry-over.

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

Dean Wallace (Qlogic) presented MSQS-2 ad hoc meeting report T11/12-486v0. Two presentations were given:

- Steve Sekel (Agilent) discussed T11/12-462v0 "Decision Feedback Equalizers in Oscilloscopes", and
- Richard Johnson (Finisar) proposed T11/12-445v0 "Recent additions to MSQS-2".

8.3 FC-PI-6 Ad Hoc Working Group

Dean Wallace (Qlogic) presented FC-PI-6 ad hoc meeting report T11/12-500v0. Seven presentations were given:

- Adam Healey (LSI) reviewed T11/12-491v0, "32GFC delta point presentation",
- Jon Anderson (Oclaro) discussed T11/12-457v0 "32GFC SMF 10km SFP+ Power Consumption Estimate",
- Dave Lewis (JDSU) discussed T11/12-394v2 "10km variant",
- Jonathan King (Finisar) presented T11/12-442v0 "Tightening 3200 SM-LC-L RX Sensitivity Spec",
- Jose Castro (Panduit) reviewed T11/12-461v0 "Estimate of the Mode Partition Noise (MPN) coefficient,"
- Hossein Hashemi (Emulex) discussed T11/12-202v0 "Review of the current FC-PI-6 document", and
- Dean Wallace (Qlogic) presented T11/12-403v1 "Overview of current actions and status of FC-PI-6".

8.4 Joint T11.2 / T11.3 Ad Hoc Working Group

Dean Wallace (Qlogic) presented the joint T11.2/T11.3 ad hoc meeting report T11/12-505v0. Two presentations were given:

- Adam Healey (LSI) proposed T11/12-488v0 "32GFC forward error correction (FEC) proposal", and
- Skip Jones (Qlogic) presented (no document number) the "FCIA 128GFC MRD".

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 27 attendees representing 22 voting member companies:

Agilent	Steve Sekel
Amphenol	Greg McSorley
Avago	David Cunningham
Broadcom	Pat Thaler
Brocade	Steve Wilson
Corning	Doug Coleman
Emulex	Hossein Hashemi
Emulex	Bill Martin
FCI	Miguel Conde
Finisar	Richard Johnson
HP	Krishna Puttagunta
IBM	Henry May
IBM	Scott Carlson
IBM	David Stauffer
JDSU	Dave Lewis
Juniper	Joseph White
LSI	Adam Healey
LSI	John Lohmeyer
Luxtera	Tom Palkert
Molex	Jay Neer
Oclaro	Jon Anderson
Panduit	Jose Castro
Qlogic	Dean Wallace
Qlogic	Craig Carlson
Semtech	David Brown
Systemax Commscope	Richard Baca
Vitesse	Marty Spadaro

The electronic attendance record also shows that 3 non-voting-members were in attendance:

Intel	Mark Wunderlich
Self	Horst Truedstedt
Self	Roger Cummings

15 Liaison Reports

15.1 INCITS, SC25, and T11 Liaison report

Steve Wilson gave his report T11/12-458v0 on "INCITS report to T11" and T11/12-430v0 "T11 report to INCITS."

15.2 SFF Committee

Dave Lewis (JDSU) gave a verbal report (no document number) on the latest SFF SSWG meeting.

15.3 T10

John Lohmeyer (LSI) gave a verbal report (no document number) of recent T10 activities.

15.4 IEEE

Adam Healey (LSI) gave T11/12-494v0 "IEEE 802.3 activities report" based upon the November plenary meeting in San Antonio. He discussed 100G backplane and copper cable, and next generation Ethernet interface for optical fiber. There was a call for interest for 400G Ethernet.

15.5 TIA

Doug Coleman (Corning) reviewed the TIA response to the recent T11 request to explore increased multimode fiber bandwidth by partially compensating chromatic dispersion with modal dispersion. The TIA rejected this request because it required information on transceiver characteristics that is outside the scope of TIA.

15.6 OIF

Tom Palkert (Luxtera) reviewed recent liaison activities with OIF, including OIF sharing the CEI VSR specification with T11.

16 Future Meeting Schedule

The next plenary meeting will be held in Palm Springs, on February 7.

Hossein Hashemi (Emulex) moves and Steve Sekel (Agilent) seconds the following motions:

Plenary week schedule

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

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

The Joint T11.2 / T11.3 Ad Hoc requests 5:30 to 7:30 PM Wednesday, February 6.

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 a telephone conference call on January 8 at 8 AM PST to discuss the next draft (Revision 0.4) of MSQS-2.

The MSQS-2 Ad Hoc requests an additional telephone conference call.

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

The joint T11.2 / T11.3 Ad Hoc requests a telephone conference call on January 21 at 9 AM PST to discuss multiple lane requirements.

The joint T11.2 / T11.3 Ad Hoc requests an additional telephone conference call.

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 upload the FCIA 128GFC MRD to the T11 website.
- Steve Wilson (Brocade) to post successful T11 standards case study for presentation at next T11 meeting cycle.
- 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.
- Tom Palkert (Luxtera) to draft a response to the OIF thanking them for their support and asking for further details on UBHPJ.

18 Adjournment

Greg McSorley (Amphenol) moved to adjourn at 10:14 AM. The motion passed by unanimous consent.