

**Approved Minutes**  
**INCITS Fibre Channel TG T11.2 Plenary Meeting #120**  
**8 June 2017 – 9 AM to 10:30 AM (AKDT)**  
**Anchorage, AK**

## **1 Opening remarks and introductions**

### **1.1 Introductory Remarks**

TC T11.2 chair Tom Palkert (Macom) convened regular meeting #120 of the INCITS Fibre Channel (T11.2) Technical Committee on Thursday, 8 June 2017 at 9:00 AM Alaska timezone daylight time. He introduced himself as chair and thanked our host Cavium and Craig Carlson for the meeting facilities.

The chair next introduced Dean Wallace (Qlogic/Cavium) 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. For reference the slide set is available to T11 members as T11/08-406v0.

The chair noted that the INCITS Antitrust Guidelines 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.

See <http://www.incits.org/standards-information/legal-info>.

### **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://standards.incits.org/login>, 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 T11-2017-00189-v000 and supporting documents were accessible via the TC web site. The chair made a call for any changes and new agenda items. No further changes or new items were requested.

Roger Hathorn (IBM) moved and J. Metz (Cisco) seconded to accept that T11-2017-00189-v000 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 the INCITS Organization, Policies, and Procedures found at INCITS/RD-2 at [www.incits.org](http://www.incits.org). An overview of these requirements was presented by the chair and was distributed to all attendees.

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 members were mentioned during the meeting.

### 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

- No new members were announced during this meeting cycle.
- Broadcom: Ben Chu becomes Principal, with David Baldwin, Evan Beauprez, Adam Healey,,Gautam Shiroor, and James Smart as Alternates.
- Cisco: Mike Blair is Principal and J. Metz is Alternate.
- QLogic: Anshul Agarwal, Girish Basrur, Darren Trapp, and Allen Spaulding are added as Alternates with Dean Wallace remaining as Principal and Craig Carlson and Mike Dudek as Alternates.

### 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 #119 of the INCITS Fibre Channel (T11.2) Technical Committee, including the recognized representatives of each member organization, and including any membership changes as listed above.

Based on the above information, the total voting membership becomes 23 effective at the start of this meeting.

Organization	Representative	Membership Class (P, A, L, E, XO, FoC, Etc.)
Amphenol	Greg McSorley	P
	Brad Brubaker	A
	Mike Davis	A
	Daniel Dillow	A
	Chris Lyon	A
	Alex Persaud	A
	Michael Wingard	A
Broadcom Limited	Ben Chu	P
	David Baldwin	A
	Evan Beauprez	A
	Adam Healey	A
	Gautam Shiroor	A
	James Smart	A
Brocade	Steven Wilson	P
	John Crandall	A
	Howard Johnson	A
	Scott Kipp	A
	David Peterson	A
Cisco	Mike Blair	P
	J. Metz	A
CommScope	Yang (Sunny) Xu	P
	Gary Gibbs	A
	Gary Irwin	A

	Paul Kolesar	A
	Earl Parsons	A
Corning Inc.	Doug Coleman	P
	Steven Swanson	A
DCS	Kevin Ehringer	P
	Zach Nason	A
	Todd Wheeler	A
Dell	Louis Ricci	P
	David Black	A
	Gaurav Chawla	A
	Erik Smith	A
	Joseph White	A
	Jeff Young	A
Finisar	Chris Yien	P
	Richard Johnson	A
Foxconn Interconnect Tech	John Petrilla	P
	Randy Clark	A
	Glenn Moore	A
Fujitsu	Mark Malcolm	P
	Kun Katsumata	A
	Gene Owens	A
GlobalFoundries	Adrian Butter	P
	John Ewen	A
HPE	Barry Maskas	P
	Siamack Ayandeh	A
	Rupin Mohan	A
	Krishna Puttagunta	A
IBM	Roger Hathorn	P
	Patty Driever	A
Lumentum	Dave Lewis	P
Macom	Tom Palkert	P
Molex	Jay H. Neer	P
	Alex Haser	A
	Scott Sommers	A
OFS Optics	Roman Shubochkin	P
	Mabud Choudhury	A
Panduit	Jose Castro	P
	Bulent Kose	A
	Robert Reid	A
	Steve Skiest	A
QLogic / Cavium	Dean Wallace	P
	Anshul Agarwal	A
	Girish Barur	A
	Craig Carlson	A
	Mike Dudek	A
	Alan Spalding	A
	Darren Trapp	A
TE Connectivity	Nathan Tracy	P
	Melissa Knox	A
	Jeff Mason	A
	Andy Nowak	A
Viavi Solutions	Jason Rusch	P

The following is a list of advisory members:

Organization	Representative	Membership Class (P, A, L, E, XO, FoC, Etc.)
Anritsu	Ken Mochizuki	P
Keysight	Joachim Vobis	P
	Stephen Didde	A
	Steve Sekel	A
Netapp	Fred Knight	P
Oclaro	Kohichi Tamura	P
Optoway	Judy Chen	P
Semtech	Bharat Tailor	P
	Ed Frlan	A
	Francois Tremblay	A
SmartDV Technologies	Deepak Kumar Tala	P

The following is a list of emeritus members:

James Coomes
William Ham
Horst Truedstedt
Schelto van Doorn

#### 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/standards-information/legal-info>. 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 which is available from <http://standards.incits.org>.

#### 6 Approval of the Minutes of March 2017 Plenary Meeting #119

The prior regular meeting of the INCITS Fibre Channel T11.2 Technical Group was #119 on 30 March 2017. The draft minutes of that meeting were posted as document T11-2017-00122-v001.

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](mailto:richard.johnson@finisar.com)) or at the subsequent meeting in person.

John Petrilla (Foxconn Interconnect) moved and seconded by Mabud Choudhury (OFS Optics) to accept T11/2017-00122-v001 as the Minutes of T11.2 meeting #119 on 30 March 2017. The motion passed by acclamation.

#### 7 Review of Old Action Items

- There were no action items from the previous meeting cycle.

## 8 Review of T11.2 Projects

### 8.1 Project Status Review

The chair reviewed project status of FC-PI-7 and FC-MSQS-3.

### 8.2 FC-PI-7 / FC-MSQS-3 Ad Hoc Working Group (T11-2017-00184-v000)

The FC-PI-7 ad hoc chair Dean Wallace (Qlogic / Cavium) presented meeting report T11-2017-00184-v000. Six presentations were given:

- Raul Oteyza (Cavium) presented “64GFC symbol distribution and bit muxing issue” T11-2017-00094-v002;
- Adrian Butter (Globalfoundries) reviewed “64GFC PCS/FEC architecture proposal for FC-FS-5” T11/16-314v7, “Transmitted bit stream examples” T11-2017-00018-v003, and “256GFC PCS/FEC architecture proposal for FC-FS-5” T11-2017-00017-v000;
- Andy Joy (Cavium) presented “Chip to module simulations” T11-2017-00159-v001; and
- Tom Palkert (Macom) discussed Dave Lewis (Lumentum) “64GFC 10 km tentative baseline” T11-2017-00179-v000.

In addition, Dean Wallace (Qlogic / Cavium) led the group in of FC-MSQS-3 and in document review and preliminary comment resolution for FC-PI-7 T11-2017-00156-v000.

### 8.3 Joint T11.2 / T11.3 Ad Hoc Working Group (T11-2017-00188-v000)

The joint T11.2 / T11.3 ad hoc chair Dean Wallace (Cavium) reviewed meeting report T11-2017-00188-v000. Two presentations were given:

- Jason Rusch (Viavisolutions) presented “FCIA Gen 6 plugfest report” T11-2017-00176-v000, and
- Mark Carlson (Toshiba) gave his “Hyperscale tutorial” T11-2017-00165-v000.

## 9 Letter Ballots

None for this plenary cycle.

## 10 Old Business

There was no old business to be reviewed for this meeting cycle.

## 11 Review of International Activity

None were given for this meeting cycle.

## 12 New Business and New Technical Items

There was no new business proposed 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/v2t?openForm&ent=35>. A template form for a patent declaration that is satisfactory to both INCITS and ISO can be found in <http://www.incits.org/standards-information/legal-info>. The chair made the call for patents.

No member responded.

**14 List of Meeting Attendees**

The electronic attendance record for this T11.2 plenary meeting showed 19 attendees representing 17 member companies:

Amphenol Interconnect	Chris Lyon
	Greg McSorley
Broadcom Limited	Ben Chu
	James Smart
Brocade	Steve L. Wilson
Cisco	J. Metz
Commscope	Gary Gibbs
DCS	Zach Nason
Finisar	Richard Johnson
Foxconn Interconnect Technologies	John Petrilla
GlobalFoundries	Adrian Butter
HPE	Krishna Babu Puttagunta
IBM	Roger Hathorn
Macom	Tom Palkert
Molex	Jay Neer
NetApp	Fred Knight
OFS	Mabud Choudhury
Qlogic / Cavium	Dean Wallace
Viavi	Jason Rusch

The electronic attendance for the FC-PI-7 ad hoc meeting showed 12 attendees representing 11 member companies:

Amphenol	Chris Lyon
	Greg McSorley
Broadcom Limited	Ben Chu
Brocade	Scott Kipp
CommScope	Gary Gibbs
DCS	Zach Nason
Finisar	Richard Johnson
Foxconn Interconnect	John Petrilla
GlobalFoundries	Adrian Butter
Macom	Tom Palkert
OFS	Mabud Choudhury
QLogic	Raul Oteyza

## 15 Liaison Reports

### 15.1 INCITS and T11 Liaison reports

T11 chair Steve Wilson (Brocade) gave T11-2017-00167-v001 "INCITS report to T11" and T11-2017-00147-v000 "T11 report to INCITS."

### 15.2 SFF Transceiver liaison

Tom Palkert (Macom) presented his "SFF TA TWG Transceiver" meeting liaison report (no document number during meeting).

### 15.3 IEEE

Tom Palkert (Macom) present his T11-2017-00182-v000 "IEEE 802.3 Liaison Report".

### 15.4 OIF

Tom Palkert (Macom) gave a verbal report on OIF liaison letter to T11.2 and on the OIF CEI contribution to be uploaded into the INCITS documents folder.

## 16 Future Meeting Schedule

The next plenary meeting will be held in Providence, RI, on August 10.

Dean Wallace (Cavium / Qlogic) moves and John Petrilla (Foxconn Interconnect) seconds the following motions:

Plenary week schedule

FC-PI-7 Ad Hoc requests 9:00 AM to 4:00 PM Tuesday, August 8.

FC-PI-7 Ad Hoc requests 9:00 AM to 12:00 PM Wednesday, August 9.

The joint T11.2 / T11.3 Ad Hoc requests 1:30 PM to 3:30 PM Wednesday, August 9.

Authorization of Ad Hoc groups & study groups No requests were made for this meeting cycle. Authorization of Telephone Conference Calls

The FC-PI-7 Ad Hoc requests two telephone conference calls.

All motions passed by acclamation.

## 17 Action Items

- Chair to upload OIF CEI into INCITS document folder.

## 18 Adjournment

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