
T11-2019-00382-v000

**Approved Minutes
INCITS Fibre Channel TG T11.2 Plenary Meeting #135
5 December 2019 – 9:00 AM to 9:57 AM (CDT)
New Orleans, LA**

1 Opening remarks and introductions

1.1 Introductory Remarks

TG T11.2 chair Tom Palkert (Macom) convened regular meeting #135 of the INCITS Fibre Channel (T11.2) Task Group on Thursday, 5 December 2019 at 9:00 AM (CDT). He introduced himself as chair and thanked our host SFF/SNIA for the meeting facilities. The chair next introduced Dean Wallace (Marvel) as the T11.2 vice-chair and Jason Rusch (VIAVI Solutions) as the T11.2 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 T11-2019-00364-v000 and supporting documents were accessible via the TC web site. The chair made a call for any changes and new agenda items.

Chris Lyon (Amphenol) moved and Sunny Xu (CommScope) seconded to accept that T11-2019-00364-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 in the INCITS Organization, Policies, and Procedures found at 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

- Teledyne-Lecroy and OFS Fitel LLC were in jeopardy for non-attendance. Representatives from both Teledyne-Lecroy and OFS Fitel LLC were present at the meeting and therefore retain voting membership.

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

- Due to acquisitions, Foxconn is no longer a member.

3.6 Quorum Check

- Quorum was achieved with 13 Voting member companies present.

3.7 T11.2 Voting Memberships for this meeting

Task Group T11.2 had 17 voting members at the T11.2 regular meeting #135, 5 December 2019.

Organization	Representative	Participant Class (P, A)
Amphenol	Greg McSorley	P
	Brad Brubaker	A
	Mike Davis	A
	Daniel Dillow	A
	Chris Lyon	A
	Alex Persaud	A
	Hu Silver	A
	Michael Wingard	A
Broadcom, Inc	Ben Chu	P
	David Baldwin	A
	Evan Beauprez	A
	Adam Healey	A
	Howard Johnson	A
	Dave Peterson	A
	James Smart	A
	Steve Wilson	A

Cisco	Mike Blair	P
	Ziad Chaine	A
	J Metz	A
CommScope	Yang (Sunny) Xu	P
	Gary Gibbs	A
	Gary Irwin	A
	Paul Kolesar	A
Corning Inc.	Doug Coleman	P
	Steven Swanson	A
DCS	Kevin Ehringer	P
	Todd Wheeler	A
Dell	Louis Ricci	P
	David Black	A
	Gaurav Chawla	A
	Alan Rajapa	A
	Erik Smith	A
	Joseph White	A
	Jeff Young	A
Finisar	Vipul Bhatt	P
	Jonathan King	A
	Vera Koleva	A
Fujitsu	Mark Malcolm	P
	Kun Katsumata	A
	Gene Owens	A
GlobalFoundries	Adrian Butter	P
	John Ewen	A
	Jon Garlett	A
HPE	Barry Maskas	P
	Rupin Mohan	A
	Krishna Babu Puttagunta	A
IBM	Roger Hathorn	P
	Patty Driever	A
Marvell Semiconductor	Dean Wallace	P
	Anshul Agarwal	A
	Girish Basrur	A
	Craig Carlson	A
	Mike Dudek	A
	Ali Khwaja	A
	Stephen Lam	A
	Akinori Maeda	A
	Alan Spalding	A
	Darren Trapp	A
NetApp	Fred Knight	P
OFS	Roman Shubochkin	P
	Mabud Choudhury	A
Teledyne LeCroy	David Rogers	P
	Douglas Lee	A
	Henry Poelstra	A
Viavi Solutions	Jason Rusch	P

The following is a list of advisory members:

Organization	Representative	Participant Class (P, A)
Anritsu	Ken Mochizuki	P
Futurewei	Xu Qi ming	P
	Eddy Zhou	A
Lumentum	Dave Lewis	P
MediaTek USA	Tamer Ali	P
	Mau-Lin Wu	A
Molex	Alex Haser	P
	Jay H. Neer	A
	Tom Palkert	A
	Scott Sommers	A
Panduit	Jose Castro	P
	Bulent Kose	A
	Robert Reid	A
	Steve Skiest	A
SmartDV Technologies	Deepak Kumar Tala	P
TE Connectivity	Nathan Tracy	P
	Melissa Knox	A
	Jeff Mason	A
	Andy Nowak	A

The following is a list of emeritus members:

James Coomes
William Ham
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 August 2019 Plenary Meeting #134

The prior regular meeting of the INCITS Fibre Channel T11.2 Task Group was #134 on 10 October 2019. The draft minutes of that meeting were posted as document T11-2019-00333-v000.

T11.2 minutes were reviewed as posted on the T11 web site. Corrections may be requested either before the subsequent meeting by email to jason.rusch@viavisolutions.com or at the subsequent meeting in person.

Chris Lyon (Amphenol) moved and Sunny Xu (CommScope) seconded to accept T11-2019-00333-v000 as the minutes of T11.2 meeting #134 on 10 October 2019. The motion passed by acclamation.

7 Review of Old Action Items

Action items completed at this meeting:

- 1806-01 T11.2 chair to request SFF-DD liaison.
- 1902-01 T11.2 chair to liaison Anil Mehta's (Broadcom, Inc) presentation T11-2019-00030-v001 to the OIF.
- 1910-01 T11.2 Secretary to create a T11.2 folder for Plenary meeting document uploads and upload the current meeting document zip file to this location.

Action items carried from prior meetings:

- 1906-01 T11.2 chair to request IEEE Liaison with T11.2 for 802.3cu.
- 1908-01 Dean Wallace to request Anil Mehta to summarize his Link Speed Negotiation presentations into one document to liaison to OIF.
- 1908-02 T11.2 Chair to ask FCIA to review marketing requirements for FC-PI-7P.

8 Review of T11.2 Projects

8.1 Project Status Review

The chair reviewed project status of activities in the T11.2 TG.

8.2 FC-PI-8 Ad Hoc Working Group (T11-2019-00181-v000)

The FC-PI-8 ad hoc chair Dean Wallace (Marvell) presented meeting report T11-2019-00359-v000. Five presentations were given:

- FC-PI-7P proposed changes, John Petrilla, FOIT, T11-2019-00328-v000
- FC-PI-7P document with proposed changes, Jose Castro, Panduit, T11-2019-00342-v000
- C2M training on 128GFC links, Anil Mehta, BSN, T11-2019-00225-v003
- Link bring-up time on 128GFC links, Anil Mehta, BSN, T11-2019-00343-v000
- COM analysis at 112.2Gbps, Tao Hu, Marvell, T11-2019-00346-v000

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

The Joint T11.2 / T11.3 ad hoc chair Dean Wallace (Marvell) presented meeting report T11-2019-00366-v000. Three presentations were given:

- C2M training on 128GFC links, Anil Mehta, BSN, T11-2019-00225-v003
- Link bring-up time on 128GFC links, Anil Mehta, BSN, T11-2019-00343-v000
- SFP-DD HW spec speed signals, Tom Palkert, Macom, T11-2019-00360-v000

9 Letter Ballots

No open letter ballots.

10 Old Business

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

11 Review of International Activity

There was no International Activity given for this meeting cycle.

12 New Business and New Technical Items

There was no new business to be reviewed 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 21 attendees representing 13 voting companies:

Organization	Representative	Role
Amphenol Corporation	Chris Lyon	Member
Amphenol Corporation	Gregory McSorley	Member
Broadcom Inc	Ben Chu	Member
Broadcom Inc	John Petrilla	Member
Broadcom Inc	Steven Wilson	Member
Cisco Systems Inc	Mark Allen	Member
Cisco Systems Inc	Mike Blair	Member
CommScope	Sunny Xu	Member
Corning Inc	Doug Coleman	Member
Dell Inc	Alan Rajapa	Member
Hewlett Packard Enterprise	Barry Maskas	Member
IBM Corporation	Patty Driever	Member
IBM Corporation	Roger Hathorn	Member
Keysight Technologies Inc	Stephen Diddle	Member
Macom	Thomas Palkert	Group Chair
Marvell Semiconductor Inc	Craig Carlson	Member
Marvell Semiconductor Inc	Dean Wallace	Vice Chair
NetApp Inc	Frederick Knight	Member
OFS Fitel LLC	Mabud Choudhury	Member
Teledyne LeCroy Corporation	David Rodgers	Member
Viavi Solutions Inc	Jason Rusch	Secretary

The electronic attendance for the FC-PI-8 ad hoc meeting showed 13 attendees representing 10 member companies:

Organization	Representative	Role
Amphenol Corporation	Gregory McSorley	Member
Broadcom Inc	Ben Chu	Member
Broadcom Inc	Anil Mehta	Member
Cisco Systems Inc	Mark Allen	Member
CommScope	Sunny Xu	Member
Corning Inc	Doug Coleman	Member
Finisar Corporation	Lance Thompson	Member
Foxconn Interconnect Technology Ltd (FIT)	John Petrilla	Member
Hewlett Packard Enterprise	Barry Maskas	Member
Keysight Technologies Inc	Stephen Didde	Member
Macom	Thomas Palkert	Group Chair
Marvell Semiconductor Inc	Dean Wallace	Vice Chair
OFS Fitel LLC	Mabud Choudhury	Member

15 Liaison Reports

15.1 INCITS and T11 Liaison reports

T11 chair Steve Wilson (Broadcom, Inc) presented T11-2019-00332-v000 "INCITS TC T11 October 2019 Report" and T11-2019-00362-v000 "T11 Status Report".

15.2 SFF Transceiver liaison

There was no report at this meeting cycle.

15.3 IEEE

Tom Palkert (Macom) and Mabud Choudhury (OFS Fitel) presented T11-2019-00367-v000.

15.4 OIF

There was no report at this meeting cycle.

16 Future Meeting Schedule

The next plenary meeting will be held in Fort Worth, TX on February 3-7, 2020.

Jason Rusch (VIAVI) moved and John Petrilla (Foxconn) seconded the following motions:

Authorization of Ad Hoc groups and study groups for the plenary week:

- FC-PI-8 ad hoc requests Tuesday 02/04/20 9:00 to 6:00 and Wednesday 02/05/20 from 9:00 to 12:00.
- Joint T11.2/T11.3 ad hoc requests Wednesday 02/05/20 from 1:30 to 3:00.

Authorization of Telephone Conference Calls:

- Request two conference calls for FC-PI-8.
- Request two conference calls for Joint T11.2/T11.3.

All motions passed by acclamation.

17 Action Items

Action items carried from prior meetings:

- 1906-01** T11.2 chair to request IEEE Liaison with T11.2 for 802.3cu.
- 1908-01** Dean Wallace to request Anil Mehta to summarize his Link Speed Negotiation presentations into one document to liaison to OIF.
- 1908-02** T11.2 Chair to ask FCIA to review marketing requirements for FC-PI-7P.

New action items:

None.

18 Adjournment

Greg McSorley (Amphenol) moved to adjourn at 9:57 AM CDT. The motion passed by unanimous consent.