

T11-2021-00063-v002

Approved Minutes
INCITS Fibre Channel TG T11.2 Plenary Meeting #142
4 February 2021 – 11:00 AM to 11:25 AM (CDT)
Virtual Meeting

1 Opening remarks and introductions

1.1 Introductory Remarks

TG T11.2 chair Tom Palkert (Macom) convened regular meeting #142 of the INCITS Fibre Channel (T11.2) Task Group on Thursday, 4 February 2021 at 11:00 AM (CDT). He introduced himself as chair and thanked Marvell for hosting the virtual Zoom meetings. The chair next introduced Dean Wallace (Marvell) 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 INCITS Code of Conduct

The chair stated that the meeting was operating under the INCITS Code of Conduct and displayed the INCITS Code of Conduct document. The advice on the slides was provided and there was no discussion. The INCITS Code of Conduct document is available at <https://www.incits.org/standards-information/policies>.

2 Approval of the Agenda

An electronic version of the agenda was posted as T11-2020-00305-v000 and supporting documents were accessible via the TC web site. The chair made a call for any changes and new agenda items.

Howard Johnson (Broadcom Inc) moved and Patty Driever (IBM) seconded to accept that T11-2020-00305-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 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.

3.3 Roll Call of Members in Jeopardy for Non-Attendance

- No members were in Jeopardy for Non-Attendance.

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

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

3.5 Members in Jeopardy for Non-Payment of Fees

- No company lost membership for non-payment of fees.

3.6 Membership Changes and Announcement of New Members

- No new members were announced at this meeting.

3.7 Quorum Check

- Quorum was achieved with 14 Voting member companies present.

3.8 T11.2 Voting Memberships for this meeting

Task Group T11.2 had 16 voting members at the T11.2 regular meeting #142, 4 February 2021.

Organization	Representative	Participant Class (P, A)
Amphenol	Sam Kocsis	P
	Brad Brubaker	A
	Paul Coddington	A
	Michael Klempa	A
	Mike Davis	A
	Daniel Dillow	A
	Chris Lyon	A
	Alex Persaud	A
	Hu Silver	A
	Michael Wingard	A
	Ben Chu	P

Broadcom, Inc	Rob Hannah	A
	Evan Beauprez	A
	Adam Healey	A
	Howard Johnson	A
	Dave Peterson	A
	James Smart	A
	Anil Mehta	A
Cisco	Mike Blair	P
	Edward Mazurek	A
	Mark Nowell	A
	Sai Pavan	A
	Kiran Ranabhor	A
	Xiaohong Wu	A
CommScope	Yang (Sunny) Xu	P
	Gary Gibbs	A
Corning Inc.	David Kozischek	P
	Steven Swanson	A
DCS	Steve Eisele	P
	Rodney Jacks	A
Dell	David Brown	A
	David Black	A
	Gaurav Chawla	A
	David Piehler	A
	Erik Smith	P
	Joseph White	A
	Vinay Sawal	A
HPE	Barry Maskas	P
	Rupin Mohan	A
	Krishna Babu Puttagunta	A
IBM	Roger Hathorn	P
	Patty Driever	A
II-VI Inc	Vipul Bhatt	P
	Vera Koleva	A
	Lance Thompson	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 December 2020 Plenary Meeting #141

The prior regular meeting of the INCITS Fibre Channel T11.2 Task Group was #141 on 10 December 2020. The draft minutes of that meeting were posted as document T11-2020-00301-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.

Howard Johnson (Broadcom Inc) moved and Chris Lyon (Amphenol) seconded to accept T11-2020-00301-v000 as the minutes of T11.2 meeting #141 on 10 December 2020. The motion passed by acclamation.

7 Review of Old Action Items

Action items completed at this meeting:

None.

Action items carried from prior meetings:

1908-01 Dean Wallace to request Anil Mehta to summarize his Link Speed Negotiation presentations into one

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 (T11-2021-00052-v000)

The FC-PI-8 ad hoc chair Dean Wallace (Marvell) presented meeting report T11-2021-00052-v001. The following presentations were given:

- Optical link training, Anil Mehta, Ramana Murty Broadcom, T11-2021-035-v1
- IEEE 802.3db update, Mabud Choudhury, OFS, verbal update
- C2M training, Anil Mehta, Broadcom, T11-2019-225-v5
- 128GFC transmission code overview, Raul Oteyza, Marvell, T11-2020-210-v3

8.3 Joint T11.2 / T11.3 Ad Hoc Working Group (T11-2021-00053-v000)

Dean Wallace (Marvell) presented meeting report T11-2021-00053-v000. The following presentation was given:

- Open discussion about time for 64GFC and 128GFC links to come up or recover from error
 1. The 64/128GFC link bringup times are much longer than previous generation link up times
 2. Now that 64GFC modules are available link bringup time needs to be measured to use as a baseline for moving forward to 128GFC speeds
 3. Understanding system limits for a recovery is critical. If there is an upper limit to the time that can be allocated that needs to be understood

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 29 attendees representing 14 voting companies:

Organization	Representative	Role
Amphenol Corporation	Paul Coddington	Member
Amphenol Corporation	Michael Klempa	Member
Amphenol Corporation	Sam Kocsis	Member
Amphenol Corporation	Chris Lyon	Member
Broadcom Inc	Ben Chu	Member
Broadcom Inc	Howard Johnson	Member
Broadcom Inc	David Peterson	Member
Broadcom Inc	Steven Wilson	Member
Cisco Systems Inc	Edward Mazurek	Member
Cisco Systems Inc	Ramesh Sivakolundu	Member
CommScope	Gary Gibbs	Member
Data Center Systems	Steve Eisele	Member
Dell Inc	Vinay Sawal	Member
Dell Inc	Erik Smith	Member
Hewlett Packard Enterprise	Barry Maskas	Member
Hewlett Packard Enterprise	Krishna Babu Puttagunta	Member
IBM Corporation	Patty Driever	Member
IBM Corporation	Roger Hathorn	Member
II-VI Inc	Vera Koleva	Member
II-VI Inc	Lance Thompson	Member
Keysight Technologies Inc	Stephen Diddle	Member
Marvell Semiconductor Inc	Craig Carlson	Member
Marvell Semiconductor Inc	Raul Oteyza	Member
Marvell Semiconductor Inc	Dean Wallace	Vice Chair
NetApp Inc	Frederick Knight	Member
OFS Fitel LLC	Mabud Choudhury	Member
Teledyne LeCroy Corporation	Henry Poelstra	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 21 attendees representing 13 voting companies:

Organization	Representative	Role
Amphenol Corporation	Michael Klempa	Member
Broadcom Inc	Ben Chu	Member
Broadcom Inc	Steven Wilson	Group Chair
Cisco Systems Inc	Ramesh Sivakolundu	Member

Cisco Systems Inc	Xiaohong Wu	Member
CommScope	Gary Gibbs	Member
CommScope	Sunny Xu	Member
Data Center Systems	Steve Eisele	Member
Dell Inc	David Piehler	Member
Dell Inc	Vinay Sawal	Member
II-VI Inc	Vera Koleva	Member
II-VI Inc	Lance Thompson	Member
Keysight Technologies Inc	Stephen Didde	Member
Macom	Thomas Palkert	Member
Marvell Semiconductor Inc	Mike Dudek	Member
Marvell Semiconductor Inc	Andrew Joy	Member
Marvell Semiconductor Inc	Raul Oteyza	Member
Marvell Semiconductor Inc	Dean Wallace	Member
OFS Fitel LLC	Mabud Choudhury	Member
Panduit Corporation	Jose Castro	Member
Teledyne LeCroy Corporation	Henry Poelstra	Member

15 Liaison Reports

15.1 INCITS and T11 Liaison reports

The INCITS and T11 liaison reports were deferred to the T11 Plenary meeting. Steve Wilson gave a brief overview of the T11 Project status.

15.2 SFF Transceiver Liaison

No liaison report was provided at this meeting.

15.3 ISO WG3/TIA

No liaison report was provided at this meeting.

15.4 IEEE 802.3 Liaison

The IEEE 802.3 Liaison report was deferred to the T11 Plenary meeting.

15.5 OIF

No liaison report was provided at this meeting.

16 Future Meeting Schedule

The next plenary meeting week will be virtual on April 5-9, 2021.

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

- FC-PI-8 ad hoc requests Tuesday 04/06/21 9:00-2:00 PDT and Wednesday 04/07/21 from 9:00-11:30 PDT.
- Joint T11.2/T11.3 ad hoc requests Wednesday 04/07/21 from 12:30-2:00 PDT.

Authorization of Telephone Conference Calls:

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

Motions for future meeting schedule was deferred to the T11 Plenary meeting.

17 Action Items

Action items carried from prior meetings:

1908-01 Dean Wallace to request Anil Mehta to summarize his Link Speed Negotiation presentations into one document to liaison to OIF.

New action items:

None.

18 Adjournment

Chris Lyon (Amphenol) moved to adjourn at 11:25 AM CDT.