

InterNational Committee for Information Technology Standards (INCITS) Secretariat: Information Technology Industry Council (ITI) 700 K Street NW, Suite 600, Washington, DC 20001 www.INCITS.org



T11-2021-00044-v001

Minutes Fibre Channel Protocol (T11.3) Task Group plenary meeting #138 2021 February 04 – 11:30 to 12:00 CDT Virtual Meeting

1 Opening remarks and introductions

The chair convened plenary meeting #137 of the Fibre Channel Protocol (T11.3) Task Group on 2021 February 04 at 11:30 CDT. He introduced himself as Craig Carlson (Marvell), and the group thanked Marvell for the virtual meeting facility. Roger Hathorn introduced himself as Vice-Chair and Patty Driever (IBM) introduced herself as secretary. Members then introduced themselves.

2 Approval of the Agenda

An electronic version of the agenda, <u>T11-2021-00017-v000</u>, and supporting documents were made available among the documents for this meeting. The agenda was in HTML format with links to the appropriate supporting documents. The chair presented the agenda and made a call for any new agenda items. No new items were requested.

David Peterson (Broadcom) moved and Jason Rusch (Viavi) seconded that <u>T11-2021-00017-v000</u> be approved as posted as the agenda for this meeting. The motion passed unanimously.

3 Administrative Matters

3.1 T11.3 Admin Is Trivia

The chair, Craig Carlson (Marvell), stated that T11.3 administrative information is available among the documents for this meeting: Starting with the web page

https://standards.incits.org/apps/org/workgroup/t11.3/

links lead to contact information for T11.3 officers, membership rules, project information, procedures and operating rules, patent rules, and internet resources. The chair recommended that members familiarize with these rules so the business of the Task Group may be conducted expeditiously.

Members were advised to see any of the officers if they require additional assistance.

3.2 Document Distribution

The chair instructed those present how to access meeting documents via the INCITS T11 Web Site Center page <u>https://standards.incits.org/apps/org/workgroup/t11/documents.php</u> The chair uploaded a zip file document containing all documents reviewed at this meeting: <u>T11-2021-00037-v000</u>.

3.3 Other matters of grave concern

The chair instructed those present how to register using the electronic attendance list for this meeting. He reminded those present that the electronic attendance list would become the only formal record of attendance at this meeting.

4 Code of Conduct

The chair reminded everyone that we are operating under the INCITS Code of Conduct (found at <u>https://www.incits.org/standards-information/policies</u>). The General Principles of this code include:

- □ Respect others
- □ Behave ethically
- □ Escalate and resolve disputes
- □ Work for the net benefit of the community
- □ Uphold consensus and governance
- □ Agree to a clear purpose and scope
- □ Participate actively and manage effective participation

5 Patents

The chair presented an overview of INCITS patent policies and guidelines, as found in INCITS Policies and Guidelines (<u>http://www.incits.org/standards-information/legal-info)</u>. sub clause 8.4. In accordance with those policies, the chair made a call for patents that related to the standards being developed by this task group. Those companies wishing to file a patent declaration should send it to the chair of TC T11, with copies to Lynn Barra at INCITS (lbarra@itic.org).

6 Antitrust Policies

The chair noted that the INCITS Antitrust Guidelines applied to this task group meeting. The chair further noted 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. 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.

The INCITS Antitrust Guidelines are available on the INCITS web site (http://www.incits.org/standards-information/legal-info).

7 Attendance and Membership

7.1 Current membership list

The chair encouraged those who attend T11 meetings regularly or intend to attend T11 meetings regularly and are not T11 members to consider joining the organization.

Information on how membership is gained, maintained, and lost in any INCITS Technical Committee or Task Group may be found in INCITS Organization and Procedures (<u>http://www.incits.org/standards-information/policies</u>) sub clause 3.8. An overview of these requirements was introduced by the chair and was available to all attendees in the electronically distributed meeting documents.

The Vice-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 Annex A. Attendance for this meeting is shown in Annex B.

7.2 Voting memberships in jeopardy

No company was in jeopardy for this meeting cycle.

7.3 Changes in Membership

7.3.1 Changes in representation since last meeting

Howard Johnson was added as Alternate for Broadcom Inc.. Other representation for Broadcom remains the same.

Edward Mazurek was added as Alternate for Cisco Systems, Inc. Other representation for Cisco remains the same.

Credo Semiconductor was added to the non-voting membership list. Phil Sun was added as Principal and Yasuo Hidaka was added as Alternate for Credo Semiconductor.

Victor Cao moved from Alternate to Principal for Futurewei Technologies, Inc. Timothy Jeffries was moved from Principal to Alternate for Futurewei. All other representation for Futurewei remains the same.

Yan-Bin Luo was removed as Alternate for Media-Tek USA Inc. All other representation for Media-Tek remains the same.

7.3.2 New voting memberships

No new voting memberships were granted at this meeting.

7.3.3 Voting memberships changed for other reasons

No changes to voting memberships were made at this meeting.

7.3.4 Changes in advisory membership

No changes to advisory memberships were made at this meeting.

7.3.5 Changes in emeritus membership

None

7.3.6 Membership for this meeting and call for quorum

Task Group T11.3 had 10 voting members at the previous T11.3 plenary meeting (December 10, 2020). At this meeting, February 04, 2021:

- 0 new voting member organizations (see 7.3.2);
- 0 reinstated voting member organization (see 7.3.3)
- 0 voting member organizations losing voting membership for not attending the required number of meetings (see 7.2); and
- 0 voting member organizations losing voting membership for other reasons, the voting membership of T11.3 remains at 10 members.

7.3.7 Quorum Call

10 voting members responded to the call for quorum. A quorum of one third of the voting membership for this meeting requires at least 4 voting members present. The number 10 exceeds or equals one third of the voting membership for this meeting and also exceeds or equals 4. A quorum is therefore present for this meeting.

8 Approval of Minutes - Meetings #137

The prior plenary meeting of the Fibre Channel Protocol (T11.3) Task Group was #137 on 2020 December 10. The draft minutes of that meeting were posted as document <u>T11-2020-00282-v000</u>.

You may review the T11.3 minutes by reviewing the version that is posted on the web site and requesting corrections either before the subsequent meeting using the Internet mail reflector (<u>fc_protocol@standards.incits.org</u>) or at the subsequent meeting in person. Non-editorial and/or substantial requests for corrections will be noted in detail at the next plenary meeting prior to the plenary body voting on the minutes. Until approved by the plenary body, these minutes are unofficial draft minutes only.

Dave Peterson (Broadcom) moved and Jason Rusch (Viavi) seconded to accept at this meeting <u>T11-2020</u> <u>-00282-v000</u> as posted as the minutes of T11.3 meeting #137 on 2020 December 10. The motion passed unanimously. See Action Item 21-001.

9 Review of Old Action Items

ACTION 20-012	T11.3 secretary to post <u>T11-2020-00227-v001</u> as the approved minutes of T11.3 meeting #136. See <u>Clause 7</u> .
ACTION 20-013	T11.3 secretary to post T11-2021-00282-v000 as the draft minutes of T11.3 meeting #137.

All of the above action items were completed.

10 Liaison Reports

10.1 TC T11 and INCITS

T11 chair Steve Wilson (Brocade) has posted the T11 TC report to other committees (posted as <u>T11-2021-00003-v000</u> along with the INCITS Report to T11 posted as <u>T11-2021-00026-v000</u>. Since these will be reviewed in the T11 plenary we did not review them during this meeting but they are available online for review.

10.2 Other liaison reports

No other liaison reports were presented.

11 Project Status

10.1 FC-FS-6

Dave Peterson (Broadcom) presented the information posted as <u>T11-2021-00024-v000</u> about FC-FS-6 ad hoc activity since the last plenary meeting of this Task Group.

10.2 FC-GS-9

Dave Peterson (Broadcom) presented the information posted as <u>T11-2021-00018-v000</u> about FC-GS-9 ad hoc activity since the last plenary meeting of this Task Group.

10.3 FC-LS-5

Patty Driever (IBM) presented the information posted as <u>**T11-2021-00055-v000**</u> about FC-LS-5 ad hoc activity since the last plenary meeting of this Task Group.

10.4 FC-PM

Craig Carlson (Marvell) presented the information posted as <u>T11-2021-00047-v000</u> about FC-GS-9 ad hoc activity since the last plenary meeting of this Task Group.

10.5 FC-SW-8

Craig Carlson (Marvell) presented the information posted as <u>T11-2021-00050-v000</u> about FC-SW-8 ad hoc activity since the last plenary meeting of this Task Group.

10.6 FCP-5

Dave Peterson (Broadcom) presented the information posted as <u>T11-2021-00006-v000</u> about FCP-5 ad hoc activity since the last plenary meeting of this Task Group.

Dave Peterson made a request the T11.3 chair to work with T10 to initiate an RFC ballot on the FCP-5 draft standard Rev. 3 contained in <u>T11-2021-00019-v002</u>.

See Action Item 21-003.

10.7 Joint T11.2/T11.3

Craig Carlson (Marvell) presented the information posted as <u>T11-2021-00053-v000</u> about Joint T11.2/T11.3 activity since the last plenary meeting of this Task Group.

12 Other Business and Technical Items.

13 Review T11.3 Project Status

The current project status is available among the electronically distributed meeting documents as well as on the INCITS web site

(<u>https://standards.incits.org/apps/org/workgroup/portal/projects.php?end in year= never &page=1</u>). The chair asked that if the facilitators or anyone else finds errors that they inform him.

14 Future Meeting Schedule

14.1 Plan for the next meeting week

Marvell will host the next T11 meeting on 2021 April 08 as a Zoom virtual meeting.

Refer to the INCITS T11 meeting web site page

(<u>https://standards.incits.org/apps/org/workgroup/t11/documents.php?folder_id=2213)</u> for the meeting announcement, which will always contain the latest information on future T11.3 plenary meetings.

PLEASE NOTE: If there is any conflict between the website schedule database, and the single ASCII sheet, the database is to be considered correct.

14.2 Ad-hoc meetings

Refer to the INCITS T11 meeting web site page for further details.

(<u>https://standards.incits.org/apps/org/workgroup/t11/documents.php?folder_id=2202)</u>. This URL will always contain the latest announcements of pending work group interim meetings and teleconferences.

15 Action Items

ACTION 21-001	T11.3 secretary to post T11-2020-00282-v001 as the approved minutes of T11.3 meeting #137. See Clause 7.
ACTION 21-002	T11.3 secretary to post T11-2021-00044-v000 as the draft minutes of T11.3 meeting #138.
ACTION 21-003	T11.3 chair to work with T10 to initiate an RFC ballot on the FCP-5 draft standard Rev. 3 contained in T11-2021-00019-v002.

16 Final Attendance Notice/Check

The chair reviewed the electronically registered attendance list, advised that the list was about to close, and reminded those who had not registered that the list would then become the only formal record of attendance at this meeting.

Chair also reminded everyone that physical presence at the meeting is required in order to count towards membership requirements. If you sign in but are not physically present at the meeting, the sign-in will be discarded by INCITS.

17 Adjournment

David Peterson (Broadcom) moved and Jason Rusch (Viavi) seconded to adjourn at 2021 February 04 11:44 AM CDT. The motion passed unanimously.

A Membership

Reflecting the changes at this meeting, the voting membership of T11.3 for this meeting is:

Organization	Name	Principal/ Alternate
Amphenol Corporation	Chris Lyon Paul Coddington Michael Klempa	Principal Alternate Alternate

	Sam Kocsis	Alternate
	Hu Silver	Alternate
Broadcom Inc	David Peterson	Principal
	Ben Chu	Alternate
	Howard Johnson	Alternate
	Mark Jones	Alternate
	James Smart	Alternate
	Anil Veerabhadrappa Steven L. Wilson	Alternate
		Alternate
Cisco Systems,	Mike Blair	Principal
Inc.	Harsha Bharadwaj	Alternate
	Fabio Maino	Alternate
	Edward Mazurek	Alternate
	Mark Nowell	Alternate
	Sai Pavan	Alternate
	Joe Pelissier	Alternate
	Kiran Ranabhor Ramesh Sivakolundu	Alternate Alternate
		Alternate
	Xiaohong Wu	
Dell	Erik Smith	Principal
	David Black	Alternate
	David Brown	Alternate
	Gaurav Chawla	Alternate
	Vinay Sawal	Alternate
	Joseph White	Alternate
Hewlett Packard	Barry Maskas	Principal
Enterprise	Rupin Mohan	Alternate
	Krishna Babu Puttagunta	Alternate
IBM Corporation	Roger Hathorn	Principal
	Patty Driever	Alternate
	Stephen Guendert	Alternate
Marvell	Craig W. Carlson	Principal
Semiconductor	Andrew Joy	Alternate
Inc	Raul Oteyza	Alternate
	Alan Spalding	Alternate
	Dean Wallace	Alternate
NetApp Inc	Frederick Knight	Principal
	John Meneghini	Alternate
Teledyne LeCroy	David Rodgers	Principal
Corporation	Amit Bakshi	Alternate
	Rakesh Kathiresan	Alternate
	Natarajan	
	Douglas Lee	

	Henry Poelstra	Alternate
	Srikant Tadigadapa	Alternate
		Alternate
Viavi Solutions	Jason Rusch	Principal
Inc.	Scott Baxter	Alternate
	George Bullis	Alternate
	Paul Gentieu	Alternate

Reflecting the changes at this meeting, the advisory (i.e., nonvoting) membership of T11.3 for this meeting is:

Organization	Name	Principal/ Alternate
Credo	Phil Sun	Principal
Semiconductor	Yasuo Hidaka	Alternate
Futurewei	Victor Cao	Principal
Technologies Inc	Chaohong (Henry) Hu	Alternate
	Timothy Jeffries	Alternate
MediaTek USA	Tamer Ali	Principal
Inc	Mau-Lin Wu	Alternate
TE Connectivity	Matt Schumacher	Principal
Unisys	Jeffrey Dremann	Principal
Corporation	Phil Shelton	Alternate
VMware Inc	Neil MacLean	Principal
	Wenchao Cui	Alternate
	Wenhua Liu	Alternate
	Murali Rajagopal	Alternate
	Ahmad Tawil	Alternate

Reflecting the changes at this meeting, these people have been granted Emeritus membership in INCITS Fibre Channel (T11) Technical Committee, recognizing their many years of skilled leadership and high quality technical contribution:

Dr. William Ham Mr. Gary Stephens Mr. Robert Kembel Mr. Joseph Mathis Mr. Horst Truestedt

B Attendance

The following table lists those persons who electronically recorded their attendance at this plenary meeting. This includes representatives from voting member companies and may include representatives from non-voting advisory companies, as well as non-voting emeritus members and visitors.

This table also records the affiliations claimed by those who registered their attendance. The presence of a company or organization in the affiliation column does not imply that it is a member of T11.3, nor does it imply that the person in attendance is a representative of that company or organization.

See "Section A: Membership" above for a complete list of voting members of T11.3 as well as a list of non-voting advisory companies and emeritus members.

Sequence	Affiliation	Name
1	AMPHENOL CORP	Paul Coddington
2	AMPHENOL CORP	Michael Klempa
3	AMPHENOL CORP	Sam Kocsis
4	AMPHENOL CORP	Chris Lyon
5	BROADCOM INC	Howard Johnson
6	BROADCOM INC	David Peterson
7	BROADCOM INC	Steven L. Wilson
8	CISCO SYSTEMS INC	Edward Mazurek
9	CISCO SYSTEMS INC	Ramesh Sivakolundu
10	DELL INC	Erik Smith
11	HEWLETT PACKARD ENTERPRISE	Barry Maskas

12	HEWLETT PACKARD ENTERPRISE	Krishna Babu Puttagunta
	_	
13	IBM CORPORATION	Patty Driever
14	IBM CORPORATION	Roger Hathorn
15	MARVELL SEMICONDUCTOR INC	Craig W. Carlson
16	NETAPP INC	Frederick Knight
17	TELEDYNE LECROY CORP	Henry Poelstra
18	TELEDYNE LECROY CORP	David Rodgers
19	VIAVI SOLUTIONS	Jason Rusch

C Attendance at Ad Hoc Meetings

C.1 FC-NVMe-2

This working group was not active during this meeting cycle.

Organization Representative Member Company		<u> </u>	
	Organization	Representative	Member Company

C.2 FC-LS-5

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	David Peterson	Y

Broadcom Inc	James Smart	Y
Broadcom Inc	Anil Veerabhadrappa	Y
Cisco Systems Inc	Harsha Bharadwaj	Y
Cisco Systems Inc	Mike Blair	Y
Cisco Systems Inc	Edward Mazurek	Y
Hewlett-Packard Enterprise	Barry Maskas	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
Marvell Semiconductor Inc	Craig Carlson	Y
NetApp Inc	Frederick Knight	Y
Viavi Solutions Inc	Jason Rusch	Y

C.3 FC-FS-6

Organization	Representative	Member Company
Broadcom Inc	David Peterson	Y
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	James Smart	Y
Broadcom Inc	Anil Veerabhadrappa	Y
Broadcom Inc	Steven Wilson	Y
Cisco Systems Inc	Mike Blair	Y
Cisco Systems Inc	Ed Mazurek	Y
Cisco Systems Inc	Ramesh Sivakolundu	Y
Hewlett Packard Enterprise	Barry Maskas	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
Marvell Semiconductor Inc	Craig W. Carlson	Y
Marvell Semiconductor Inc	Raul Oteyza	Y
NetApp Inc	Frederick Knight	Y
Viavi Solutions Inc	Jason Rusch	Y

C.4 FC-SW-8

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	David Peterson	Y
Broadcom Inc	Anil Veerabhadrappa	Y
Broadcom Inc	Steven Wilson	Y
Cisco Systems Inc	Mike Blair	Y
Cisco Systems Inc	Edward Mazurek	Y
Hewlett Packard Enterprise	Barry Maskas	Y

Hewlett Packard Enterprise	Krishna Babu Puntagunta	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
Marvell Semiconductor Inc	Craig Carlson	Y
Marvell Semiconductor Inc	Raul Oteyza	
NetApp Inc	Frederick Knight	Y

C.5 FC-PM

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	David Peterson	Y
Broadcom Inc	James Smart	Y
Broadcom Inc	Steven Wilson	Y
Cisco Systems Inc	Mike Blair	Y
Cisco Systems Inc	Ramesh Sivakolundu	
Hewlett Packard Enterprise	Barry Maskas	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
Marvell Semiconductor Inc	Craig Carlson	Y
Marvell Semiconductor Inc	Raul Oteyza	Y
NetApp Inc	Frederick Knight	Y
Viavi Solutions Inc	Jason Rusch	Y

C.6 FC-GS-9

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	David Peterson	Y
Broadcom Inc	James Smart	Y
Broadcom Inc	Anil Veerabhadrappa	Y
Cisco Systems Inc	Mike Blair	Y
Cisco Systems Inc	Edward Mazurek	Y
Hewlett-Packard Enterprise	Barry Maskas	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
NetApp Inc	Frederick Knight	Y
Viavi Solutions Inc	Jason Rusch	Y

C.7 Joint T11.2/T11.3

Organization	Representative	Member Company
Broadcom Inc	Ben Chu	Ŷ
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	Anil Mehta	Y
Broadcom Inc	David Peterson	Y
Broadcom Inc	Steven Wilson	Y
Cisco Systems Inc	Mike Blair	Y
CommScope	Gary Gibbs	Y
Data Center Systems	Steve Eisele	Y
Dell Inc	Vinay Sawal	Y
Hewlett Packard Enterprise	Barry Maskas	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
II-VI Inc	Lance Thompson	Y
Keysight Technologies Inc	Stephen Didde	Y
Macom	Thomas Palkert	Y
Marvell Semiconductor Inc	Raul Oteyza	Y
NetApp Inc	Frederick Knight	Y
OFS Fitel LLC	Mabud Choudhury	Y
Teledyne LeCroy Corporation	Henry Poelstra	Y
Viavi Solutions Inc	Jason Rusch	Y