



InterNational Committee for Information Technology Standards  
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[www.INCITS.org](http://www.INCITS.org)



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**T11-2022-00200-v000**

**Draft Minutes  
INCITS Fibre Channel (T11) Technical Committee  
Regular Meeting #171  
16 June 2022 – 1 PM to 3 PM CDT  
Duluth, MN (Hybrid Meeting)**

## **1 Opening Remarks and Introductions**

### **1.1 Introductory Remarks**

TC T11 chair Steve Wilson (Broadcom) convened regular meeting #171 of the INCITS Fibre Channel (T11) Technical Committee on Thursday, 16 June 2022 at 1:02 PM CDT. He introduced himself and thanked our host Marvell for the physical meeting facilities as well as the virtual meeting facilities.

He next introduced Vice-Chair Craig Carlson (Marvell) and Patty Driever (IBM) as secretary.

### **1.2 Self-introductions**

The chair then asked those present in the room to introduce themselves.

### **1.3 Operating under INCITS Procedures**

#### **1.3.1 Patent Information**

The chair indicated that among the rules and policies under which this Technical Committee operates are the ANSI intellectual property policies as specified in pages 1-3 of INCITS patent policy slides available from <http://www.incits.org/standards-information/legal-info>.

He displayed these pages without comment or explanation, and directed that questions about the policy should be referred to the questioner's legal counsel or the ANSI General Counsel.

### **1.3.2 Antitrust Guidelines**

The chair indicated that among the rules and policies under which this Technical Committee operates are the INCITS Antitrust Guidelines as specified in <http://www.incits.org/standards-information/legal-info>. Any person present at the meeting is responsible for objecting if he believes discussion in the meeting violates those 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.

### **1.3.3 Code of Conduct**

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

### **1.3.4 Public access rules**

The chair indicated that among the rules and policies under which this Technical Committee operates are the INCITS rules for operating in Public Access Mode, as specified in Section

3.11 of INCITS Organization, Policies, and Procedures (found at <http://www.incits.org>).

The chair encouraged those nonmembers who attend T11 meetings regularly or intend to attend T11 meetings regularly to join the organization. He further advised that nonmembers, by remaining in this meeting, acknowledge that they understand and agree to the policies of this meeting.

## **1.4 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>. He reminded those present that both the electronic attendance list and physical presence at the meeting will be required to qualify as attendance for formal records of this meeting.

## **2 Approval of the Agenda**

An electronic version of the agenda was posted as T11-2022-00171-v001. The chair presented the agenda with final updates as T11-2022-00171-v002 and made a call for any changes and new agenda items. No changes or new items were requested.

Roger Hathorn (IBM) moved and Dave Peterson (Broadcom) seconded that T11-2022-00171-v002 as presented at this meeting be approved as the agenda for this meeting. The motion 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 <http://www.incits.org>. An overview of these requirements was introduced by the chair and was available to all attendees among 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.1. Attendance for this meeting is shown in annex A.2. Attendance for the ad hoc meetings is shown in annex A.3.

### **3.2 Changes in Representation Since the Last Meeting**

The following changes in representation have been made since the last meeting:

Dr. Ramana Murphy was added as an Alternate for Broadcom Inc. All other representation for Broadcom Inc. remains the same.

Xiaokang Zhu was added as an Alternate for Cisco Systems, Inc. All other representation for

Cisco Systems Inc. remains the same.

### **3.3 New Voting Memberships**

- Lumentum (Dave Lewis) and Credo (Fang Cai) answered the vice-chair's call requesting voting membership, but are not yet fully eligible, so membership can be granted at the next meeting if in attendance there.

### **3.4 Voting memberships in jeopardy for attendance**

- There were no companies in membership jeopardy for lack of attendance at 2 of the last 3 plenary meetings.

### **3.5 Voting memberships in jeopardy for non-payment of dues**

- There were no companies in membership jeopardy for non-payment of dues.

### **3.6 Voting memberships in jeopardy for letter ballot performance**

- CommScope is in membership jeopardy for letter ballot performance for not having voted on two of last three T11 letter ballots.

### **3.7 Membership for this meeting**

Technical Committee T11 had 16 voting members at the T11 regular meeting 07 April 2022. With no members losing voting privileges, and no members gaining voting privileges the voting membership of T11 remains at 16 for this meeting.

Reflecting the above changes, the voting membership of T11 for this meeting is recorded in [annex A.1.2](#).

Reflecting the above changes, the advisory (i.e., nonvoting) membership of T11 for this meeting is recorded in [annex A.1.3](#).

### **3.8 Call for members of the press and journalists**

The chair requested members of the press and journalists to introduce themselves. No person attending the meeting made such an introduction.

### **3.9 Call for Quorum**

The total voting membership for this meeting is 16. One third of the total membership for this meeting is 6. The number of member organizations that responded to the call for quorum was 16. This exceeds or equals one third of the total membership for this meeting and also exceeds or equals 6. A quorum is therefore present for this meeting. It should be noted that of the 21 (voting and non-voting) member companies present at this plenary meeting, 8 were in attendance in-person during this plenary meeting and 9 member companies had representatives present during the week at the ad-hoc meetings.

### **3.10 Call for Guests**

The chair requested those associated with organizations that are not members of T11 to introduce themselves. No one responded.

## **4 Document Distribution**

The chair described the process for T11 document distribution via <http://standards.incits.org>.

## **5 Approval of Minutes - Meeting #170**

The prior regular meeting of the INCITS Fibre Channel (T11) Technical Committee was #170 on 07 April 2022. The draft Minutes of that meeting were posted as document T11/2022-00131-v000.

T11 minutes are reviewed as posted on the T11 web site. Corrections may be requested either before the subsequent meeting by email to the T11 secretary ([pgd@us.ibm.com](mailto:pgd@us.ibm.com)) or at the subsequent meeting in person.

Chris Lyon (Amphenol) moved and Tom Palkert (Macom) seconded to accept T11/2022-00131-v000 as the Minutes of T11 meeting #170 on 07 April 2022. The motion passed by acclamation.

See action item [22-009](#).

## **6 Review of Old Action Items**

22-004	T11 secretary to post approved Minutes of T11 meeting #169 as agreed at T11 meeting #170. (See <a href="#">clause 5</a> ) Completed by posting T11/2022-00159-v000 on April 07, 2022.
22-005	T11 Chair to forward new project proposal for FC-NVMe-3 as documented in <a href="#">T11-2022-00085-v001</a> to INCITs for further processing. Completed via phone call with Lynn Barra.
22-006	T11 Chair to forward Liaison list with Origination Dates to INCITS Secretariat. Completed via phone call with Lynn Barra.
22-007	Chair to inform INCITs of the revised Statement of Work for the INCITS/Fibre Channel (T11) technical committee. Completed via phone call with Lynn Barra.
22-008	Chair to update the 2022 meeting schedule to reflect the October 2022 meeting as being hosted by SFF. Completed by Chair posting the new meeting schedule to ICMS on June 13, 2022.

## 7 Review of T11 Project and Proposal Status

### 7.1 Project Proposals

#### 7.1.1 FC-NVMe-3

This project proposal was approved by INCITS.

### 7.2 Project Status Review

The T11 Project status sheet was displayed (see [annex B.1](#)). The current version can be viewed at any time at <http://standards.incits.org>, in the "T11 Projects" folder in the documents section.

The chair reminded all TG chairs to assure the project status sheet is maintained to reflect changes in status of their projects.

## 8 Results of non-ISO Letter Ballots

### 8.1 No Ballots

## 9 Old Business

No old business was reopened.

## **10 Task Group T11.2 - Physical Interfaces**

### **10.1 Report to T11 Plenary ([T11-2022-00219-v000](#))**

Task Group Chair Tom Palkert (Macom) gave the report posted as T11-2022-00219-v000 on activity at T11.2.

#### **10.2 Actions**

**10.2.1** There were no actions this meeting cycle.

#### **10.3 Other Items**

No other items were presented for TG T11.2.

## **11 Task Group T11.3 - Interconnection Schemes**

### **11.1 Report to T11 Plenary ([T11-2022-00217-v000](#))**

Task Group Chair Craig Carlson (Marvell) presented the information posted as T11-2022-00217-v000 on activity at T11.3.

#### **11.2 Actions**

**11.2.1** There were no actions this meeting cycle.

#### **11.3 Other Items**

No other items were presented for TG T11.3.

## **12 Joint TG T11.2 / T11.3 Items**

### **12.1 Report to T11 Plenary**

There was no meeting of the Joint T11.2/T11.3 Task Group during this meeting cycle.

#### **12.2 Actions**



**12.2.1** There were no actions.

### **12.3 Other Items**

No other items were presented for Joint T11.2/T11.3.

### **13 T11 project activities**

None for this meeting cycle.

### **14 Review of International Activity**

#### **14.1 INCITS Computer Systems Interconnect (SC 25 / WG4 TAG) Status Report ([T11-2022-00212-v000](#))**

Dave Peterson (Broadcom) presented the information posted as T11-2022-00212-v000 on INCITS Computer Systems Interconnect (SC 25 / WG4 TAG) project status (see [annex B.2](#)).

### **15 T11 New Business**

#### **15.1 T11.2/T11.3 Scope of Work Review**

INCITS has asked each technical committee to review the Statement of Work that is published on their committee website. At the last meeting we approved the T11 Statement of Work, but we did not formally vote to approve similar Statements of Work developed by the T11.2 and T11.3 groups. The T11.3 Statement of Work is contained in document T11/2022-00115-v001 (referenced in the minutes documented in T11/2022-00129-v000) and is included here:

*INCITS/T11.3 Fibre Channel Interconnection Schemes is the Task Group within Technical Committee T11 responsible for all FC projects which define Fibre Channel encoding and protocols. T11.3 held its first meeting on April 23, 1998.*

*T11.3 (Fibre Channel Interconnection Schemes) defines the encoding and low level*

*protocols which allow Fibre Channel to carry a broad set of upper level storage and networking protocols. Among these are FCP (SCSI), NVMe over FC, and FC-SB-6 (FICON). The goal of T11.3 is to provide a high performance, reliable, and low latency transport mechanism for upper level protocols.*

The T11.2 Statement of Work is contained in the April 2022 minutes which are documented T11/2022-00162-v000 and is included here:

*INCITS/Fibre Channel Physical Variants is the Task Group within the INCITS/Fibre Channel Technical Committee responsible for all projects and parts of projects dealing with Physical Variants (e.g. media, connector, transmitter & receiver requirements).*

*Note: This task group was formerly known as INCITS/T11.2 until January 2022*

Steve Wilson (Broadcom) made a motion that T11 approve the updated Statements of Work for T11.2 and T11.3 as documented in their respective April T11.2 and T11.3 plenary draft minutes (T11/2022-00162-v000 and T11/2022-00129-v000). Seconded by Craig Carlson (Marvell).

Motion carried: In Favor-16, Opposed-0, Abstain-0.

See action item [22-010](#).

## **16 Call for Patents**

### **16.1 Call for Patents**

#### **16.1.1 Patent Information Overview**

The chair reminded the meeting that among the rules and policies under which T11 operates are the INCITS intellectual property policies. An overview of patent information relevant to T11 may be found in the INCITS patent policy, which is publicly available at [INCITS Patent Policy](#).

#### **16.1.2 INCITS/ISO patent disclosure form**

A template form for a patent declaration that is satisfactory to both INCITS and ISO can be found in [INCITS Patent Declaration Form](#).

No company responded to the call for patents.

## **17 Liaison Reports**

### **17.1 T11 report ([T11-2022-00161-v000](#)), INCITS Liaison report ([T11-2022-00182-v000](#))**

Steve Wilson (Broadcom) presented the information posted as T11-2022-00161-v000 on activity at T11 as reported to other organizations, and the information posted as T11-2022-00182-v000 on activity at INCITS other than T11 project status.

### **17.2 TC T10 (Verbal)**

Paul Coddington (Amphenol) gave a brief verbal report on activity at T10.

### **17.3 FCIA ([T11-2022-00207-v000](#))**

Mark Jones (Broadcom) gave report T11-2022-00207-v000 on activity at FCIA.

### **17.4 IEEE 802.3 ([T11-2022-00211-v000](#))**

Tom Palkert (Macom) and Mabud Choudhury (OFS) gave report T11-2022-00211-v000 on activity at IEEE 802.3.

### **17.5 INCITS TC CS1 (None)**

### **17.6 SNIA and SFF ([T11-2022-00213-v000](#))**

Fred Knight (NetApp) discussed report T11-2022-00213-v000 on SNIA activities.

### **17.7 NVMe (verbal)**

Craig Carlson (Marvell) gave a brief verbal report on recent NVMe activities.

## **18 Administrative Matters**

### **18.1 Officer Appointments**

Officers of this Technical Committee and its Task Groups are:

T11 Chairman	Steve Wilson (Broadcom)
T11 International Representative	David Peterson (Broadcom)
T11 Vice Chairman	Craig Carlson (Marvell)
T11 Secretary	Patty Driever (IBM)
T11.2 Chairman	Tom Palkert (Macom)
T11.2 Vice-Chairman	Dean Wallace (Marvell)
T11.2 Secretary	Jason Rusch (Viavi)
T11.3 Chairman	Craig Carlson (Marvell)
T11.3 Vice-chairman	Roger Hathorn (IBM)
T11.3 Secretary	Patty Driever (IBM)

## 19 Future Meeting Schedule

### 19.1 Authorization of adhoc meetings

The chair directed members to the ICMS T11 calendar located at the T11 section of the web site <http://standards.incits.org> the latest announcements of pending work group interim meetings and teleconferences. He advised that authorization of ad hoc work group meetings is delegated to the appropriate TG, if any.

The vice chair will account for these requests in the schedule for the T11 plenary week hosted by Cisco in Itasca, IL (outside Chicago) and by Marvell via Zoom for the hybrid-format conference 8-12 August 2022.

### 19.2 Guidelines for hosting T11 meetings ([T11-2017-00151-v000](#))

For members who are considering hosting future plenary meetings, the chair directed their attention to “Guidelines for hosting T11 Plenary Weeks” T11-2017-00151-v000. This information includes guidelines for hosting a T11 meeting week and room night histories of past meeting weeks. This is required reading for those who are considering hosting because it summarizes the needs of the committee for meeting facilities and gives considerations that may reduce costs for the host.

Groups arranging to meet with T11 were strongly advised to confirm with the host any changes in their needs for meeting space well before the meeting. Failure to do so could easily cause serious inconvenience to the host and/or the group.

### 19.3 Request for hosts and 2022–2023 meeting schedule

The chair announced the following schedule for 2022-2023.

<b>Date</b>	<b>Location</b>	<b>Host Organization</b>	<b>Host Person</b>
February 7-11, 2022	Raleigh, NC	FCIA	Chris Lyon
April 4-8, 2022	New Orleans, LA	Broadcom	Steve Wilson
June 6-10, 2022	Duluth, MN	Marvell	Craig Carlson
August 8-12, 2022	Itasca (Chicago), IL	Cisco	Kiran Ranabhor
October 3-7, 2022	Fort Worth, TX	SFF	Paul Coddington
December 5-9, 2022	Deerfield Beach, FL	Amphenol	Chris Lyon
February 6-10, 2023	tbd	tbd	tbd
April 3-7, 2023	tbd	tbd	tbd
June 5-9, 2023	tbd	tbd	tbd
August 7-11, 2023	tbd	tbd	tbd
October 2-6, 2023	tbd	tbd	tbd
December 4-8, 2023	tbd	tbd	tbd

### 19.4 Approval of Meeting Venues

#### 19.4.1 August 2022

The chair indicated that Cisco is confirmed as hosting in August 2022 in Itsaca, IL (outside Chicago). Members are encouraged to make their room reservations as soon as possible. SFF has indicated that the October hosting site will be in Fort Worth, TX. More details will follow at the next meeting.

Chair will update meeting calendar to reflect SFF as the host for October in Fort Worth, TX.

See action item [22-011](#).

### **19.5 Next meeting information**

The chair reminded the membership that the next T11 plenary week, August 08-12, is planned to be a hybrid meeting with the face-to-face meeting in Itsaca, IL hosted by Cisco and the virtual meeting will be using Marvell Zoom facilities. Room rate is \$245 at the Eaglewood Resort.

### **19.6 Letter to travel representatives on hotel rates ([T11-2022-00091-v000](#))**

The chair reminded the membership that

- T11 plenary meetings are hosted by volunteer organizations;
- A plenary host receives no reimbursement from T11 or INCITS for any expenses of hosting;
- A plenary host may depend on agreements with the meeting hotel in order to reduce the expenses of the host and also possibly, though not necessarily, reduced the room rates for the members; and
- A hotel may charge punitive extra fees to a host if the meeting does not achieve an agreed number of room nights identified with group members.

Therefore, T11 expects those attending meetings during a plenary week to stay at the meeting hotel and identify themselves as members of the T11 group, even though less expensive lodging may be found in the area, or even at the same hotel. Document T11-2022-00091-v000 has been posted which contains a letter to those with budget responsibilities for member organizations justifying this obligation.

### **19.7 Plenary week meeting map for August 2022 T11 meetings**

The vice chair Craig Carlson (Marvell) created and the chair presented the tentative meeting map of the next T11 meeting week. He advised members for the most recent meeting map of the next T11 regular meeting to go to the INCITS website, search the T11 Meeting Information folder under August 2022.

## 20 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 source of attendance for formal records of this meeting.

Final registered attendance for T11 regular meeting #171 is shown in annex A.2. 29 people from 21 member (16 voting) organizations were in attendance.

## 21 Review of Action Items

22-009	T11 secretary to post approved Minutes of T11 meeting #170 as agreed at T11 meeting #171. (See <a href="#">clause 5</a> )
22-010	Chair to inform INCITs of the revised Statements of Work for the INCITS/Fibre Channel Interconnection Schemes (T11.3) and INCITS/Fibre Channel Physical Variants (T11.2) technical committees.
22-011	Chair to update the 2022 meeting schedule to reflect the October 2022 meeting as being hosted by SFF in Fort Worth, TX.

## 22 Adjournment

Chris Lyon (Amphenol) moved to adjourn at 2:18 PM CDT. The motion passed by acclamation.

## **Annex A Membership and Attendance**

### **A.1 Membership for this meeting**

#### **A.1.1 Emeritus Members**

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. Robert Kembel**

**Mr. Bob Nixon**

**Mr. Schelto Van Doorn**

#### **A.1.2 Voting Members**

The following is the list of organizations that are voting members of record for regular meeting #171 of the INCITS Fibre Channel (T11) Technical Committee, including the recognized representatives of each member organization:

<b>Organization</b>	<b>Representative Type</b>	<b>Representative</b>
Amphenol	Principal	Chris Lyon
	Alternate	Brad Brubaker
	Alternate	Paul Coddington
	Alternate	Daniel Dillow
	Alternate	Michael Klempa
	Alternate	Sam Kocsis
	Alternate	Alex Persaud
	Alternate	Hu Silver
	Alternate	Michael Wingard
Broadcom	Principal	Steven L. Wilson
	Alternate	Evan Beauprez



	Alternate	Ben Chu
	Alternate	Robert Hannah
	Alternate	Adam Healey
	Alternate	Howard Johnson
	Alternate	Mark Jones
	Alternate	Anil Mehta
	Alternate	Dr. Ramana Murty
	Alternate	David Peterson
	Alternate	James Smart
	Alternate	Anil Veerabhadrapa
Cisco	Principal	Mike Blair
	Alternate	Harsha Bharadwaj
	Alternate	Rajesh L.G.
	Alternate	Fabio Maino
	Alternate	Edward Mazurek
	Alternate	Mark Nowell
	Alternate	Sai Pavan
	Alternate	Kiran Ranabhor
	Alternate	Shalom Shefa
	Alternate	Sumanth Sindiri
	Alternate	Ramesh Sivakolundu
	Alternate	Yi Tang
	Alternate	Xiaohong Wu
	Alternate	Xiaokang Zhu
Commscope	Principal	Yang (Sunny) Xu
	Alternate	Gary Gibbs
Corning	Principal	David Kozischek
	Alternate	Steven E. Swanson
Dell	Principal	Erik Smith
	Alternate	Jai Bansai
	Alternate	David Black

	Alternate	David Brown
	Alternate	Doug Farley
	Alternate	David Piehler
	Alternate	Vinay Sawal
	Alternate	Joseph White
Hewlett Packard Enterprise	Principal	Barry Maskas
	Alternate	Curtis Ballard
	Alternate	Rupin Mohan
	Alternate	Krishna Babu Puttagunta
IBM	Principal	Roger Hathorn
	Alternate	Patty Driever
	Alternate	Stephen Guendert
II-VI Inc	Principal	Vipul Bhatt
	Alternate	Vera Koleva
	Alternate	Lance Thompson
Keysight Technologies	Principal	Stephen Didde
	Alternate	Joachim Vobis
Macom	Principal	Thomas Palkert
Marvell Semiconductor Inc	Principal	Craig W. Carlson
	Alternate	Anshul Agarwal
	Alternate	Sanjaya Anand
	Alternate	Qian Banglong
	Alternate	Girish Basrur
	Alternate	Kathy Caballero
	Alternate	Mike Dudek
	Alternate	Arun Easi
	Alternate	Robert Friend
	Alternate	Duane Grigsby
	Alternate	Anil Gurumurthy
	Alternate	James Hamada
Alternate	Andrew Joy	

	Alternate	Ali Khwaja
	Alternate	Stephen Lam
	Alternate	Ray Leung
	Alternate	Raymond Liang
	Alternate	Akinori Maeda
	Alternate	Praveen Midhag
	Alternate	Trinh Nguyen
	Alternate	Raul Oteyza
	Alternate	Arun Patil
	Alternate	Eddy Soetjahja
	Alternate	Alan Spalding
	Alternate	Gourangadoss Sundar
	Alternate	Andrew Vasquez
	Alternate	Dean Wallace
NetApp	Principal	Frederick Knight
OFS	Principal	Roman Shubochkin
	Alternate	Mabud Choudhury
Teledyne LeCroy	Principal	Henry Poelstra
	Alternate	Amit Bakshi
	Alternate	Rakesh Kathiresan Natarajan
	Alternate	Nick Kriczky
	Alternate	Douglas Lee
	Alternate	Srikant Tadigadapa
Viavi	Principal	Jim Yasueda
	Principal	Jason Rusch
	Alternate	Scott Baxter
	Alternate	George Bullis
	Alternate	Paul Gentieu

### A.1.3 Advisory Members

The following is the list of organizations that are advisory (i.e., nonvoting) members of record for regular meeting #171 of the INCITS Fibre Channel (T11) Technical Committee, including the

recognized representatives of each member organization:

<b>Organization</b>	<b>Representative Type</b>	<b>Representative</b>
Anritsu	Principal	Tadanori Nishikobara
	Alternate	Yuji Sekine
Ciena	Principal	Stephen Shew
	Alternate	Sebastien Gareau
Credo Semiconductor	Principal	Phil Sun
	Alternate	Dr. Fang Cai
	Alternate	Yasuo Hidaka
Data Center Solutions	Principal	Steve Eisele
	Alternate	Rodney Jacks
Futurewei	Principal	Timothy Jeffries
	Alternate	Victor Cao
Lumentum Operations	Principal	David Lewis
MediaTek	Principal	Tamer Ali
	Alternate	Chihlong Dai
	Alternate	Herbert Wang
	Alternate	Mau-Lin Wu
Molex	Principal	Alexandra Haser
	Alternate	Scott Sommers
Panduit	Principal	Jose Castro
	Alternate	Bulent Kose
	Alternate	Robert Reid
TE Connectivity	Principal	Nathan Tracy
	Alternate	Daniel Gorenc
	Alternate	Jeff Mason
	Alternate	Matt Schumacher
Unisys	Principal	Jeffrey Dremann
	Alternate	Phil Shelton
VMWare	Principal	Neil MacLean
	Alternate	Wenchao Cui

	Alternate	Wenhua Liu
	Alternate	Murali Rajagopal
	Alternate	Ahmad Tawil

**A.2 Attendance at this meeting**

**A.2.1 Member organizations**

The following is the list of member organizations and their representatives recorded in the online attendance registry as attending regular meeting #171 of the INCITS Fibre Channel (T11) Technical Committee:

<b>Organization</b>	<b>Representative(s)</b>	<b>In Person</b>
AMPHENOL CORP	Paul Coddington	Y
	Chris Lyon	Y
BROADCOM INC	Howard Johnson	N
	Mark Jones	N
	David Peterson	Y
	Steven L. Wilson	Y
CISCO SYSTEMS INC	Mike Blair	N
	Ramesh Sivakolundu	N
	Xiaohong Wu	N
COMMSCOPE	Sunny Xu	N
CORNING	David Kozischek	N
CREDO SEMICONDUCTOR	Fang Cai	N
DATA CENTER SYSTEMS	Steve Eisele	N
DELL INC	David Brown	N
HEWLETT PACKARD ENTERPRISE	Barry Maskas	N
IBM CORP	Patty Driever	Y
	Roger Hathorn	Y
II-VI INC	Vera Koleva	N

	Lance Thompson	N
KEYSIGHT TECHNOLOGIES INC	Stephen Didde	Y
LUMENTUM OPERATIONS	David Lewis	N
MACOM	Thomas Palkert	Y
MARVELL SEMICONDUCTOR	Craig Carlson	Y
	Dean Wallace	Y
NETAPP INC	Frederick Knight	Y
OFS FITEL LLC	Mabud Choudhury	N
PANDUIT CORPORATION	Jose Castro	N
TE CONNECTIVITY	Daniel Gorenc	N
TELEDYNE LECROY CORPORATION	Jim Yasueda	N
VIAVI SOLUTIONS INC	Jason Rusch	Y

Howard Johnson and Ed Mazurek, while not in attendance at the plenary, did attend ad-hoc meetings throughout the week in-person.

**A.2.2 Ad hoc meeting attendance**

FC-SW-8 ad hoc, members

Organization	Representative(s)
BROADCOM INC	Howard Johnson
	David Peterson
CISCO SYSTEMS INC	Harsha Bharadwaj
	Edward Mazurek
DELL INC	David Brown
IBM CORP	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
NETAPP INC	Frederick Knight
VIAVI SOLUTIONS INC	Jason Rusch

FC-PI-8 ad hoc, members

<b>Organization</b>	<b>Representative(s)</b>
AMPHENOL CORPORATION	Paul Coddington
BROADCOM INC	Mark Jones
	Anil Mehta
	Ramana Murty
	Steven Wilson
CISCO SYSTEMS INC	Ramesh Sivakolundu
	Xiaohong Wu
COMMSCOPE	Sunny Xu
CORNING INC	David Kozischek
CREDO SEMICONDUCTOR	Fang Cai
	Phil Sun
DATA CENTER SYSTEMS	Steve Eisele
DELL TECHNOLOGIES INC	Jai Bansai
	David Piehler
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORPORATION	Patty Driever
	Roger Hathorn
II-VI INC	Vera Koleva
	Lance Thompson
KEYSIGHT TECHNOLOGIES INC	Stephen Didde
LUMENTUM OPERATIONS	David Lewis
MACOM	Thomas Palkert
MARVELL SEMICONDUCTOR INC	Mike Dudek
	Raul Oteyza
	Dean Wallace
OFS FITEL LLC	Mabud Choudhury
PANDUIT CORPORATION	<a href="#">Jose Castro</a>
TELEDYNE LECROY CORPORATION	Henry Poelstra

VIAVI SOLUTIONS INC	Jason Rusch
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FC-GS-9 ad hoc, members

Organization	Representative(s)
BROADCOM INC	Howard Johnson
	David Peterson
CISCO SYSTEMS INC	Harsha Bharadwaj
	Edward Mazurek
DELL INC	David Brown
IBM CORPORATION	Patty Driever
	Roger Hathorn
NETAPP INC	Frederick Knight
VIAVI SOLUTIONS INC	Jason Rusch

FC-LS-5 ad hoc, members

Organization	Representative(s)
BROADCOM INC	Howard Johnson
	David Peterson
CISCO SYSTEMS INC	Harsha Bharadwaj
	Mike Blair
	Edward Mazurek
DELL INC	David Brown
IBM CORP	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
NETAPP INC	Frederick Knight
VIAVI SOLUTIONS INC	Jason Rusch

FC-FS-6 ad hoc, members



<b>Organization</b>	<b>Representative(s)</b>
BROADCOM	David Peterson
CISCO SYSTEMS INC	Mike Blair
	Ed Mazurek
DELL INC	David Brown
HEWLET PACKARD ENTERPRISE	Barry Maskas
IBM	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
	Raul Oteyza

FC-RDMA ad hoc, members

<b>Organization</b>	<b>Representative(s)</b>
BROADCOM INC	Howard Johnson
	David Peterson
CISCO SYSTEMS INC	Harsha Bharadwaj
	Edward Mazurek
DELL INC	David Brown
IBM CORPORATION	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
NETAPP INC	Frederick Knight
VIAVI SOLUTIONS INC	Jason Rusch

FC-NVMe-3 ad hoc, members

<b>Organization</b>	<b>Representative(s)</b>
BROADCOM INC	Howard Johnson
	David Peterson

CISCO SYSTEMS INC	Harsha Bharadwaj
	Edward Mazurek
DELL INC	David Brown
IBM CORPORATION	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
NETAPP INC	Frederick Knight
VIAVI SOLUTIONS INC	Jason Rusch

FC-SP-2/AM2 ad hoc, members

<b>Organization</b>	<b>Representative(s)</b>
BROADCOM INC	David Peterson
CISCO SYSTEMS INC	Edward Mazurek
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORPORATION	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
NETAPP INC	Frederick Knight
VIAVI SOLUTIONS INC	Jason Rusch

Joint T11.2/T11.3 ad hoc, members

<b>Organization</b>	<b>Representative(s)</b>
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## Annex B Supporting Documents

### B.1 T11 Project Status

The following table indicates the status of all active T11 projects. It reflects the official status as reported on the T11 web site as of the T11 regular meeting #171 held on 16 June 2022.

Standard	Status	Action	Target or Reaffirm Date	Editor	Ad Hoc Chair	Secretary
Projects in Development Stage						
FC-FS-6	In dev.	To T11	Oct-22	Carlson	Peterson	Driever
FC-GS-9	In dev.	To T11	Oct-22	Rusch	Peterson	Johnson
FC-LS-5	In dev.	To T11	Oct-22	Carlson	Driever	Rusch
FC-MSQS-3	In dev.	To T11	Dec-22	Castro	Wallace	Wallace
FC-PI-8	In dev.	To T11	Oct-22	Rusch	Wallace	Wallace
FC-RDMA	In dev.	To T11	Jun.23	Peterson	Carlson	Peterson
FC-SW-8	In dev	To T11	Jun 22	Peterson	Carlson	Peterson
FC-NVMe-3	In dev.	To T11	Apr 23	Peterson	Carlson	Hathorn
FC-SP-2/AM2	In dev	To T11	Apr 23	Peterson	Hathorn	Peterson
Projects in Approval Stage						

## B.2 INCITS Computer Systems Interconnect (SC 25 / WG4) project status

The following tables indicates the status of all active INCITS Computer Systems Interconnect (SC 25 / WG4) TAG projects. It reflects the official status as reported at the Fibre Channel (T11) regular meeting #171, 16 June 2022 in document T11-2022-00212-v000. The SC 25/WG 4 TAG project database is available in document [sc25-wg4-2018-00011-TAG-Project-Database](#).

### B.2.1 Active Fibre Channel (T11) Computer Systems Interconnection (SC25 WG4 TAG) Projects

	ISO/IEC # (T11 allocated)	Status
No items at this time		